



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 MP/OTFM/29-ORI/BHU/2018-19

दिनांक / Date: 21.12.2018

To

Amandeep,
Whole Time Director,
M/s OCL India Limited,
Rajgangpur, Dist-Sundargarh,
Pin-770017, Odisha.

Sub: Mining Plan of Kukuda Limestone and Dolomite Mines over an area of 93.798 ha in Sundargarh district of Odisha of M/s OCL India Limited submitted under Rule-16 (2) of MCR, 2016.

Ref: - i) Your letter no. LQ: MN: 110/185 dated 07.12.2018 received on 13.12.2018.
ii) This office letter of even no. dated 13.12.2018.
iii) This office letter of even no. dated 13.12.2018 addressed to the Director of Mines, Govt. of Odisha, copy endorsed to you.

Sir,

This has reference to the letters cited above on the subject. The draft Mining Plan along with Progressive Mine Closure Plan has been examined in this office based on earlier site inspection carried out on 19.07.2018 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 Mining 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 should be submitted in Auto CAD compatible format and JPG format in resolution of 100x100 pixels on same CD)** with financial assurance under Rule 27 of MCDR' 2017 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 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 Mining Plan. It may be noted that no extension of time in this regard will be entertained and the 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 / yours faithfully,

(HARKESH MEENA)

क्षेत्रीय खान नियंत्रक / Regional Controller of Mines

Copy for kind information and necessary action to:

1. Shri S. K. Rout, Qualified Person, M/s OCL India Limited, Rajgangpur, Dist-Sundargarh, Pin-770017, Odisha.

(HARKESH MEENA)
क्षेत्रीय खान नियंत्रक / Regional Controller of Mines

SCRUTINY COMMENTS ON EXAMINATION OF MINING PLAN & PROGRESSIVE CLOSURE PLAN OF KUKUDA LIMESTONE & DOLOMITE MINE OF M/S OCL INDIA LTD., OVER AN EXTENT OF 93.798 HECTARES, LOCATED IN RAJGANGPUR TAHASIL OF SUNDARGARH DISTRICT OF ODISHA STATE, SUBMITTED UNDER RULE 16(2) OF MCR, 2016 & 23 OF MCDR, 2017.

(1) (i) In the front cover, the document has been submitted for mining plan only, instead of review of mining plan or modification of mining. Besides, the plan has been submitted under Rule 16(2) of MCR, 2016, which is not correct. Therefore, the review of mining plan, under rule 17(2) of MCR, 2016 or modification & review of mining is required to be submitted under Rule 17(1) of MCR, 2016. Accordingly, necessary modifications/incorporations may also be made at other places in the document. (ii) Nothing has been mentioned about the grant/renewal & validity status of the lease in the front cover. (iii) The period for which the document has been submitted also missing in the front cover. (iv) The category of the mine is indicated to be for Category A only instead the mine should fall under either category A-OTFM or A-FM pending on the level of mechanisation. (v) RQP No. of Shri Saroj Kumar Rout has been mentioned, which is uncalled for and must be erased.

(2) In the consent letter/undertaking/certificate from the applicant, the consent has been given for preparation of mining plan, under 17(3) of MCR, 2016 but the said rule is for submission of modification of the mining plan. On examination, it is found that, the mine has no valid mining plan; thereby submission of mining plan under Rule 17(3) of MCR, 2016 is not correct. Therefore, the consent should be given for preparation of review of mining plan, under Rule 17(2) of MCR, 2016 or modification & review of mining plan, under Rule 17(1) of MCR, 2016.

(3) The certificate from the Qualified Person observing the MCDR, 2017 has not been submitted, which is a must for submission of the review of mining plan/modification of mining plan.

(4) In the contents and text of the document, it is found that, the document has not been prepared as per the guidelines for preparation of review of mining plan/modification of mining plan. The chapter 3.0 of Part A such as **Details of approved mining plan/scheme of mining (if any)**, in part B, the chapters 3.0 as **Mine Drainage**, 6.0 as **Processing of ROM and Mineral Reject**, 7.0 as **Others** have not been incorporated in the contents and text part of the document, which should be done. Accordingly, the numbering of all the chapters furnished in the document should be done as per the guidelines.

(5) On examination of the enclosed annexure-2, it is found that, the lease has already expired on 19.08.2018 but the validity status for the same is not known. **Therefore, the lease extension letter of the lease should be obtained from the State Govt. and enclose along with the document.**

(6) The employment status of Shri S.K. Rout as Dy. ED has been enclosed as annexure-10 but the academic qualification and minimum five years supervisory experience in a mine in favour of Shri Rout has not been furnished, which is mandatory for submission of the document.

(7) The Form I & J is stated to be enclosed as annexure-13 but no Form-I is found enclosed. Besides, the Form J is submitted for drilling boreholes in Lanjiberna Limestone Mine and the same for Kukuda Mine has not been submitted. It is evident that, no borehole has been drilled in Kukuda Limestone & Dolomite mine considering the Form J submitted along with the document.

(8) The valid consent order from State Pollution Control Board, Odisha has not been enclosed, which should be submitted.

(9) A copy of the valid Bank Guarantee matching to the proposed mining plan period has not been enclosed and the same should also be submitted.

(10) The copy of the valid Forest clearance and MoEF clearance of the mine is missing, which should also be submitted.

(11) In last two para of the page No. 2 and 1st para of page No.3 have no relevance with this mining plan and must be deleted. (Page No.2)

(12) The status of revision application submitted to the State Govt. is not known. Moreover, the copy of the Mines Tribunal order, dated 11.05.2016 has not been submitted. The excavation planning for the period from 2017-18 to 2019-20 has been furnished in tabular form as annexure-12 but the location co-ordinates of such excavation planning is missing, which should be furnished by adding one more column in the tabular annexure.

(13) The mine code furnished for Kukuda Limestone & Dolomite Mine is not correct, which should be checked and corrected. [Para 1.0(a)]

(14) The validity of the lease period is mentioned to be upto 20.08.2028, which is not correct it should be upto 19.08.2018. [Para 2.0(a)(iii)]

(15) Unless the state Govt. intends to extend the lease period, the validity is restricted upto 19.08.2018 instead of 20.08.2028. [Para 2.0(a)(iv)]

(16) The location and distance of the mine from SH-10 and Rourkela should be checked & corrected as the same is confusing in the referred para. [Para 2.0(b)]

(17) The existing status of quarry(s) available in Kukuda lease to be furnished if any and the reference of Quarry-2 of Lanjiberna lime stone and dolomite lease has no relevance with the Kukuda lease as far as UNFC is concerned and such references are uncalled for in this document. (Page no. 12)

(18) It is true, the copy of the work order to M/s SPS Geo-Mining Solutions (P) Ltd has been enclosed as referred annexure-12 but the Form J submitted along with the annexure-13 pertains to Lanjiberna Limestone & Dolomite Mine only. Therefore, the logging and sample preparation of diamond core drills done by the consultant is meant for Lanjiberna lease of M/s OCL India Ltd. [Para 2.0(c)(i)]

(19) The samples are stated to be analysed for SiO₂, Al₂O₃, CaO, MgO & K₂O but the analysis report for the same has not been submitted neither from Govt. laboratory nor from NABL accredited laboratory for its authenticity. Atleast 10% of the analysis should be done by third party NABL/Govt. Laboratory. [Para 2.0(c)(iii)]

(20) The exploration schedule for 25 nos. of coring boreholes has been proposed during 2018-19 to 2022-23, which is not proper instead, the entire potential area of mineralisation should be proposed under exploration in 2019-20 at least upto G2 level. Besides, it is also to be mention that, the drilling of the boreholes can be extended maximum upto 300m if the holes are not terminated in the ore zone. The exploration schedule may also be revised accordingly as per the requirement of Minerals (Evidence of Mineral Contents) Rules, 2015 and the entire potentially mineralized zone to be explored atleast under G2 level of exploration. Further, details of exploration to be given as per following format:

Sl.No	Year	BH No	Northing	Easting	Collar RL	Core/RC/DT H	Meteage	Inclination	Forest/Non-Forest/diverted Forest	Surface Right/Non-Surface	Purpose of BH
1											
2											
Total						Total BH	Total mts				

At the end of the table, cumulative number of proposed BH in forest area, non-forest area, diverted forest area, Surface right area and non -surface right area to be given. Same has to be depicted on the geological plan. (Page No. 15)

(21) The reserves/ resources under UNFC as on 01.04.2018 has been furnished in tabular form but the calculation in support of such reserves/resources has not been furnished, which should be computed considering the following:- (i) Up to what depth, the resources have been estimated is not known & the same has not been linked with the borehole analysis report of the individual boreholes in the particular grids. (ii) The recovery of Limestone & dolomite percentage from ROM is not explained, which should be supported by an authenticated recovery test report from NABL accredited laboratory with valid scope of accreditation for limestone & dolomite. (iii) No authenticated analysis report for the grades of the resources/reserves has been furnished. (iv) Bulk density study report from NABL/Govt. laboratory also not taken into account for the reserves/resources estimation. In view of the above, it is found that, the reserves/resources 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. (Page No. 19)

(22) Existing method of mining has not been furnished in detail as per the heading of the para, which should be discussed, including the existing status of quarry, dump, reclamation, rehabilitation & afforestation etc. for more informative. Besides, nothing has been discussed about the proposed method of mining and the same should also be furnished by giving proposed bench formation status both in overburden & in ore zone, dumping, reclamation & rehabilitation etc. for clarity. If the existing quarries are proposed to be developed /extended, the same may also be furnished. In the light of the above; the entire para may be revised. [Para 2.0(a)]

(23) On examination of the table furnished for **Insitu Tentative Excavation**, the following observations are made: (i) For the period from 2018-19 to 2022-23, the proposed status of IB/reject generation and production of limestone has been furnished but the bench/RL of the excavation planning has not been given, which should also be furnished by adding one more column in the table. (ii) The recovery percentage of the limestone, dolomite & reject material is missing. (iii) The location co-ordinates of the excavation planning for each year also not furnished and the same may also be given by adding one more column in the table with proper plate reference. (iv) The grades of limestone, dolomite, rejects and the waste material 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. (Page No. 23)

(24) The waste/reject generated during the ensuing five year period has been proposed to be dumped in south side of block 1 & south side of block 3 but the said area has not been proved barren so far. Besides, no provisions for separate dumping of waste and mineral rejects, which should be discussed. [Para 2.0(f)]

(25) The life of the mine has been calculated considering the reserves/resources estimated in page No. 19 of the document but the same is under revision, thereby the life of the mines will get

changed when the reserves/resources are revised. The para may be revised accordingly. [Para 2.0(g)]

(26) The land use has been furnished in tabular form but the extent of area put to use in different counts by end of each year of the ensuing five year period is missing, which should be furnished by adding one more columns in the table. [Para 2.0(h)]

(27) Stage wise land use and reclamation area has been furnished in tabular form but the financial years against the proposal is missing, which should be furnished and the table may be revised. Page No. 30)

(28) The location co-ordinates of the proposed dump is missing, which should be furnished. Besides, the dimension of the retaining wall, garland drain and the year of construction is also missing and the same should be furnished. [Para 3.0(b)]

(29) The chapters of PMCP have not been as per the prescribed guide lines, which should be checked and revised accordingly.

(30) Pit/quarry wise extent of area proposed to be degraded in each year of the ensuing five year period should be furnished. Besides, pit wise extent of area utilized for dumping, reclamation, rehabilitation & afforestation for each year of the aforesaid period may also be furnished. All should be furnished in tabular form and rest of the things should be erased. (Para 5.7)

(31) The name & contact number of the person responsible during the emergency should be furnished. Besides, nearest fire stations, hospitals and police station is required to be mentioned for more informative. (Para 5.12)

(32) The financial assurance table furnished in the para under reference is appears to be not correct, which should be checked and corrected. Besides, below the table, the category of the mine is considered as B category, instead the mine should come under category A-OFTM. (Para 5.13)

(33) Plate No. 01 (Key Plan): The details of the deficiencies found on the plate are as follows: (i) Single index reference is given for approach road, instead separate indexes for different types of road should be depicted on the plan portion of the plate as well as index reference for the same to be furnished. (ii) Direction of flow of River/nala is missing. (iii) The index reference for reserved forest and other type of forest not given. (iv) Population of the villages falling within 5km radius of the lease area not furnished. (v) 25cm long scale has not been marked on the plate.

(34) Plate No. 03(DGPS Surveyed Map):(i) The covering letter of DGPS map signed by the competent authority of ORSAC have not been enclosed. (ii) The mining lease has been granted and executed over an extent of 93.798ha but the DGPS map has been prepared, over an extent of 95.410ha, which is not matching with the extent of lease area. (iii) Further DGPS map of the lease area should be certified by the State Govt. authorities.

(35) Plate No. 05 (Surface Plan): (i) The mine is old one but except a small quarry, no other existing features are seen on this plate. Therefore, it is advised to depict all other available existing features such as dump, stack etc. for more informative. (ii) The roads shown in the index and marked on the plate is for village road or for mine road or for public road should be specified. (iii) There are good number of existing boreholes are depicted on the plan, whereas as only two boreholes are drilled in the lease area during the year 2017-18 as given in the text. Therefore, the other boreholes depicted on the plan should be reference erased not only from this plate but also from all other places wherever marked. (iv) The pillar co-ordinates of all the lease boundary pillars have not been furnished.

(36) Plate No. 06 (Geological Plan): (i) Geology of the entire lease area have not been marked. (ii) The excluded portion within the lease area has been proposed under exploration, which is not correct. (iii) In extreme north eastern side, near to Quarry No.2 of Lanjiberna limestone & dolomite

mine, the exposure of limestone patches has been marked where no such exposure is seen. Besides, the said location has not been explored for presence of limestone so far. Accordingly, the plate submitted for geological sections may also be revised. (iv) 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. (v) The exploration proposed for each year of the ensuing five year period should be revised & the entire leased out area should be proposed under exploration during 2019-20 atleast upto G2 level of exploration.

(37) Plate No.07 (Geological Sections): The geological index given in the geological sections are not matching with that of the geological plan, thereby the indexing as well as the lithology for the geological sections should be revised in such a way that, the same will match with the geological plan. Besides, in most of the sections, the lithology of the area has not been marked.

(38) Plate No.08 (Development Plan for 2018-19: (i) The excavation planning has been proposed in extreme north eastern side of the lease area near to Quarry No. 2 of Lanjiberna limestone & dolomite mine, where practically no exploration has been done. Moreover, no surface right over the said area has been obtained from district collector. Therefore, the excavation planning should be proposed in the location, where the exploration has been done during 2017-18 and permission for surface right has been obtained. Likewise the location of the dumping may also be sifted to some other location where, the exploration has been done and the area has been proved barren of limestone and dolomite. Accordingly, the development plans & sections submitted for the rest of the four years and all other relevant plates may also be revised.

(39) Plate No.17 (Reclamation Plan): The features depicted in conceptual plan & section, reclamation plan & progressive mine closure plan are same, which is not correct. In reclamation plan, the activities such as excavation, dumping, reclamation, rehabilitation and plantation etc. proposed during each year of the ensuing five year period should be marked. In conceptual plan, the features which will be seen by end of the cessation of the mining operation only need be depicted. Likewise in progressive mine closure plan, the land degradation status in different counts by end of the ensuing five year period needs to be depicted for which the bank guarantee is normally submitted. In view of the above, the relevant plates should be revised accordingly.

(40) Plate No. 18 (Environment Plan): All the existing features available within 500m radius of the lease area has to be depicted with different colour codes, which has not been marked on the plan.