



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/13-ORI/BHU/2021-22

Date: 14.07.2021

सेवामे

Shri Jyoti Pramanik, Mine Owner,
Mission Road, Sambalpur,
Odisha-768001

विषय: Approval of Review of Mining Plan of Putka Limestone Mine along with Progressive Mine Closure Plan (PMCP), over an area of 97.031 ha in Sundargarh district of Odisha State, submitted by Shri Jyoti Pramanik under Rule 17 of MCR, 2016.

संदर्भ: - i) Your letter No. Nil dated 10.06.2021 received on 22.06.2021.
ii) This office letter of even no. dated 22.06.2021.
iii) This office letter of even no. dated 22.06.2021 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 03.07.2021 by Shri Kewal Krishan, Regional Mining Geologist. 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 I and submit **three (3) firm bound and two (2) soft copies of the document text in USB Pendrive/Flash drive 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 USB Pendrive/Flash drive)** 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,
8/2/21
24/07/21
(हरकेश मीना)

क्षेत्रीय खान नियंत्रक

Copy for kind information and further necessary action to Shri S.C. Nayak, M/s MINESKETCH Consultants (P) Ltd, Flat No-205, Bhagwan Tower, Cuttack Road, Bhubaneswar-751006.

(हरकेश मीना)
क्षेत्रीय खान नियंत्रक

Scrutiny comment on Review Mining Plan including PMCP in respect of Putka Limestone Mine area 97.031 ha. of M/s Sri Jyoti Pramanik of Odisha State.

GENERAL:

1. On cover page and all other relevant places of the document Mine code and registration no are to be furnished along with validity of lease period. It is mentioned on the cover page that mining lease is deemed to have been extended for 50 years as per section 8A(3) of Mines and Mineral development and regulation Amendment Act 2015. In that connection, legitimate document issued by the state government regarding the extension of mining lease period is to be enclosed.
2. Category of mine is to corrected as A category mine instead of A (OTFM), at all the relevant place of the document.
3. The details regarding the use of mineral is to be discussed in the introduction chapter along with the present capacity of the valid EC quantity for production of mineral.
4. Present status of all statutory clearances viz., EC, etc., are to be furnished with referring to documentary evidences as annexures.
- 5) All the text/ annexures are to be properly indexed/ numbered/ paged and signed by qualified person. All the certificates should bear date and signature. Sequence of paragraph and its numbering should be covered as per IBM Manual Appraisal MP 2014.

6) **Chapter -2** The details of Location and accessibility is to be furnished as fallow

Lease Details (Existing Mine)

Name of mineLat/long of any boundary point ..

Date of grant of leasePeriod/Expiry Date.....

Name of leaseholder.....

Postal Address.....

Telephone-----fax-----email id-----Mobile No. -----

7) Co-ordinates furnished are not matching with the lease map shown on the key plan. Need correction. Latitude and Longitude are to be furnished as per DGPS Coordinates.

Geology

8) On page no 16, under heading details of exploration already carried out, it is mentioned that there are 02 nos of pits. Dimension of all the pits in the lease area are to be furnished .

9) It is noticed in the document submitted that resources/reserves have been estimated based on the on the basis of pits influence. Details of all the pits are to be furnished such meter-wise logging and sampling of pit faces , thickness of ore zone, , location of sampling points and their analysis from NABL lab accordingly ,the area under G1/G2/G3/unexplored are to be discussed and marked on the plan also.

- 10) Under heading future exploration proposal, on page no 18, the exploration programme, in the lease area should be proposed as per provision of rule 12(4) of MCDR-2017. The entire potential mineralized area is to be proposed for drilling under G1 level of exploration. The entire potential area is to be explored in the year 2021 -2022 only. Need correction at all the relevant places of the document.
- 11) The information of proposed individual boreholes should be furnished in the following tabulated format.
- 12) The information of proposed individual boreholes should be furnished in the following tabulated format.

Sl.No	Year of drilling	Proposed Borehole No	UTM Coordinate		Collar	Proposed Borehole Depth (m)	Angle of drilling	Type of drill hole(Core/RC/DTH)	Forest area/diverted forest area/non-	Surface right area/non-surface right area
			Northing	Easting	mRL					

- 13) On page no 19, the area explored under different levels of exploration is to be corrected.
- 14) Under method of estimation of Limestone resources/reserves, parameters considered for estimation are to be elaborated properly, which should also include pit influence considered for resource estimation etc. Nomenclature of the various grades is to be done as per the revised threshold values of minerals as notified by IBM, dated 25th April 2018.
- 15) On page no 22, Justification of bulk density, recovery factor considered has not been elaborated in detail. Need to do necessary corrections.
- 16) On page no 22, under heading reserves/resources, depth continuity has been considered for estimation, which contrary to the MEMC rules 2015. Hence reserves/resources are to be re-estimated keeping in view the MEMC rule-2015. Need correction at all the relevant places of reserves/resources table and in the document part also.
- 17) On page no ,24 Probable Mineral Reserves (121 and 122) along with Prefeasibility Mineral Resources (under category 211/222) and Inferred mineral resources (333) are also to be discussed properly.
- 18) On page no 23, under category of mineral resources as per UNFC description, in the Indicated resources (332) it is to be mentioned that the an indicated Mineral resources has a lower level of confidence than that applying to the Measured Mineral Resources and may only be converted to Probable Mineral Resources.. Need correction.
- 19) Under Justification in respect of UNFC on page no 26, various UNFC aAxis, i.e. Economic Axis, Feasibility Axis and Geological Axis are to be discussed properly.

MINING

- 20) Justification for site selection for mining during the proposed plan period is to be elaborated in detail. Proposed method of mining has to be furnished in light of development proposal i.e. annual production capacity, nos. of pits proposed for production, site of waste dump and other mine design parameters.
- 21) The details of existing quarries in terms of their length width, top RL and bottom RL have not been furnished based on recent survey. Top RL and Bottom RL should match with RL furnished in

surface plan. All the parameters of existing quarries and dumps should be updates based on recent survey.

- 22) Year wise development and production plan should be furnished in the following tabulated format.

Particular for the year...		
Bench Geometry	Height (in m)	
	Width (in m)	
	Individual bench slope angle	
Quarry Development	Location (Quarry Name)	
	Extent of Development (in UTM coordinate)	
	Sections considered for development	
	Number of benches	
	Benches considered for development with RL	
	Top RL	
	Bottom RL	
	Direction of advancement	
	Dimension of the quarry at the end of the year including existing benches	
	Area occupied (in sq.m)	
	Overall quarry slope angle	
	Production of Ore (in MT)	
	Generation of Mineral rejects ore from quarry (in MT)	
	Production of ROM (Ore+Mineral Reject) in MT	
Total Generation of waste (in cum)		

- 23) On page no 33, the insitu tentative excavation table, the details of OB/SB/IB are not justified properly. Because during the site inspection it has been noticed in the quarries that after top soil there exists Limestone deposit only . No overburden has been absorbed. The production proposal should be as per approved EC. ROM /waste ratio is to be mentioned correctly.
- 24) On page no 36, under excavation and Loading , the volume required to be handed per annum excluding top soil is to be corrected.
- 25) Conceptual mine planning is to be discussed up to the end of lease period taking into consideration the available reserves/resources, describing the excavation, recovery of ROM, disposal of waste, backfilling of voids, reclamation and rehabilitation.. In pursuant to the order dated 14.01.2020 passed by MoM, Gol, consequent up on the order dated 08.01.2020 of the Hon'ble Apex Court passed in W.P.(C) No. 114/2014, the lessee shall carryout "re-grassing in mining area after closure of mines". Accordingly it should be discussed during conceptual period.

Mine drainage:

- 26) Quantity and quality of water likely to be encountered, the pumping arrangements and places where the mine water is finally proposed to be discharged are to be described
- 27) Minimum and maximum depth of water table based on observations from nearby wells and water bodies. Indicate maximum and minimum depth of Workings etc.

Stacking of Mineral reject /subgrade and disposal of waste.

- 28) Year wise manner of disposal of waste, configuration and build-up of dumps along with the proposals for protective measures are to be given in tabular form. Similarly the table given on page no 51, location of dumps and sub grade mentioned is to be corrected. Location of these dumps and subgrade is to be shown properly on the plan also.

Processing of ROM & Mineral reject

- 29) It is mentioned that the subgrade limestone if produced in the mine will be stacked in the area presently for utilization /beneficiation in future depending upon the economic viability. The statement given is contrary to the para mentioned on page no 53. Need correction.

Progressive Mine Closure Plan

- 30) Baseline information of the lease area are to be described along with base line information for surrounding 500 meter form lease boundary.
- 31) The monitoring of various environmental parameters as per the relevant statue are to be proposed in the core and buffer zone the lease area. The details of monitoring stations are to be discussed & marked on the environment plan.
- 32) In the summary of year-wise proposals on protective measures for reclamations and rehabilitation on table no. 8.3.6 is not matching with the protective measure details given on page no 51. Need correction.

Financial Assurance

Financial assurance in case of said category mine (A category mine) is to be enclosed with the document in the form of bank guarantee.

Pre-feasibility Report

- 33) . Under feasibility report, the reserves/resources are to be furnished per the Geology and exploration chapter only. In cut off parameters heading , on page no 7, it is mentioned that the limestone +34to 45% Cao has been termed as blendable ore whereas on page no 49 ,the grade of subgrade is given as +34 to 42 % Cao.. Need Clarification/correction inlight of the statement made at page no 49.
- 34) The contents of entire Prefeasibility Report is to be elaborated as per part V of MEMC rules 2015. Need correction accordingly at all the relevant places of the pre-feasibility report.

Plates

- 35) All plans and sections should be signed with date by certified Surveyor, Qualified Person,
- 36) With reference to CCOM Circular No 2/2010, the geo-referenced mining leases map superimposed on latest high-resolution satellite data has not been submitted.

37). The key plan should incorporate all features as mentioned rule 32 (5) (a) of MCDR 2017 and all features should be shown in index as well.

38) Updated surface plan of the lease area is to be enclosed with the document. Location of ore stacks and waste dumps is to be marked as per the latest survey. The location of subgrade marked near the NW corner of lease is not corrected. Instead of subgrade it is to be corrected as waste dump. Area marked under magazine is to be properly marked..

39) Geological Plan & Section:

. Exploration proposal is to be modified. The entire area is to be proposed for drilling during the year 2021-21 only. Location of samples drawn from the pits for analysis are to be marked, area under G1/G2/G3/ unexplored is to be marked on the plan. Dip of the deposit marked is not correct. UPL is to be shown properly. In all the Geological sections to be depth persistence has been considered for categorization of reserves/resources. The same is not correct. Need correction. UPL is to be corrected accordingly.

40 Development plan & Section, reclamation plan and conceptual plan & sections are to be modified based on the re-estimation of reserves/resources. Need correction.

41) Environment plan:

. The Environment Plan as prepared should be satisfy the provision as laid down rule 32 (5) (b) of MCDR'2017. The drainage pattern of the lease area is to be shown on the plan. Environmental monitoring stations are to be marked . Wind rose diagram should be shown with predominate wind direction.

42) FA Plan. The area under different heads of FA table should be properly shown in different hatching with present area and additional area in FA plan. The FA table should be furnished.

Annexures

43) Copy of lease deed/ legitimate document issued by the state government regarding the extension of mining lease period is to be enclosed.

44) Copy of Environment clearance is to be enclosed.

45) Photo Identity Card of Lessee with permanent address proof is to be enclosed with the document.

46) Copies of analysis report from NABL accredited laboratory or similar accredited laboratory are to be enclosed .

47) Few photographs of the mining lease area are to be enclosed along with boundary pillars.

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← Keesiaw
7/7/21