



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/A/21-ORI/BHU/2021-22

Date: 23.12.2021

To

Shri Debabrata Behera, Managing Director,  
M/s Kashvi Power & Steel Pvt Ltd,  
Plot No 1234/P, Govinda Prasad,  
Bomikhal, Bhubaneswar-751010

Sub: Approval of Mining Plan of Dholta Pahar Iron Ore Block along with Progressive Mine Closure Plan (PMCP), over an area of 60.508 ha in Sundargarh district of Odisha State, submitted by M/s Kashvi Power & Steel Pvt Ltd under Rule 16 of MCR, 2016.

Ref: - i) Your letter No. KPSL/DHO/2021-22/09 dated 07.12.2021 received on 14.12.2021.  
ii) This office letter of even no. dated 14.12.2021.

Sir,

This has reference to the letter cited above on the subject. The draft Mining Plan along with Progressive Mine Closure Plan (PMCP) has been examined in this office based on earlier site inspection carried out on 22.12.2021 by Shri Dayanand Upadhyay, Senior Assistant Controller of Mines & Shri Sanjib Kumar Mohapatra, Senior Mining Geologist. 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:-

- (i) Three (3) firm bound copies of text in A4 size printable paper and plate/plan in hard copy. The consents and certificates by the Lease holders/Qualified Person shall be attached in hard copy of document.
- (ii) Two (2) soft copies of the document in USB Pendrive. The soft copies of the document shall be digitally signed by the Qualified Person and Nominated owner. The text of document should be in excel(.xls) and word format. The plates/plans are to be submitted in .kml/.kmz/.shp and .dwg format . A few sections may be submitted in .pdf format as indicated in the CCOM Circular 1/2021. All the annexures shall be submitted in soft copy.

The aforesaid final copies of the document will be submitted within 07 (Seven) days from the date of issue of this letter, for further necessary action.

The para-wise clarifications and the manner in which the deficiencies are attended should invariably be given while forwarding the final 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,  
23/12/2021  
(बाबुलाल गुर्जर)  
क्षेत्रीय खान नियंत्रक

Copy for kind information and further necessary action Shri Pradeept Mohapatra, World Consultany Services, At-Telengapentha, Dist- Cuttack, Odisha-754001.

(बाबुलाल गुर्जर)  
क्षेत्रीय खान नियंत्रक

N.O.O:

Copy for kind information to the Controller of Mines (EZ), Indian Bureau of Mines, CP-13, Sector V, Salt Lake City, Kolkatta- 700 091.

(बाबुलाल गुर्जर)  
क्षेत्रीय खान नियंत्रक

**Scrutiny comments on examination of Mining Plan along with Progressive Mine Closure Plan in respect of Dholta Pahar Iron ore Block, over an area of 60.508 Hectares in Sundargarh District of Odisha State of M/s. Kashvi Power & Steel Pvt. Ltd.**

**PART-A**

**CHAPTER-1: GENERAL INFORMATION**

1. The document should be prepared as per the mining plan template format provided in CCOM circular No.01/2021 dated 07.06.2021. **No alteration/deletion/change in format of the mining plan template is allowed.** Any additional information may be submitted as annexure only if required.
2. The details of rules furnished in the cover page regarding submission of mining plan and progressive mine closure plan are incorrect. The same needs to be rectified and reproduced properly.
3. An introduction with a brief history of the auctioned block to be given. A format of summary at glance needs to be furnished, the copy of the same is enclosed as annexure.
4. The final soft copy of the document should be digitally signed by QP and consent letter by Nominated Owner.
5. Under para 1.1.1; IBM registration of the company needs to be furnished. Five year block should be mentioned as from the date of execution of the lease deed.
6. Under para 1.1.2; LOI number and date has not been furnished. The needs to be furnished.
7. Under para 1.3.6; furnished details of nominated owner is not correct. The same needs to be reviewed and reproduced properly with documentary evidences as annexure.
8. As per Rule 34(A) of MCDR amendment Rule 2021; All the preferred bidders who are issued with a letter of intent for grant of a mining lease shall carry out a drone survey of the mining block granted through auction and up-to hundred meters outside the block boundary and submit the processed output (digital elevation model and Orthomosaic image) along with the mining plan to the Regional Controller of Mines and controller general. The same has not submitted with the draft document.

**CHAPTER-2: GEOLOGY AND EXPLORATION:**

9. The detailed information in para 2.1.1; under drainage pattern is incorrect, the same rectified properly.
10. The information furnished under para 2.1.4.8 i.e. deposit type, needs to be reviewed and furnished properly.
11. The detailed information under para 2.2.1.9 & 2.2.1.10 are not corroborating each other. The same need to be reviewed and reproduced properly. Further name of the NABL accredited agency for carried out check sample analysis agency is varying from the geological report provided by the State Govt. the same needs to be rectified properly.
12. As G1 level of exploration has been proposed over the entire area of the virgin block during this plan period, a fresh bulk density study report of different ore types during the plan period needs to be proposed under para 2.2.1.13.
13. The information furnished under para 2.2.1.14. i.e. area to be explored under G1 category needs to be furnished.
14. The information under para 2.2.2.14 regarding area covered under exploration (Before last plan period) is not relevant for this fresh auction block. Hence the same needs to be mentioned as not applicable.
15. The information furnished under para 2.2.4.9 regarding other modifying factors are incorrect. The same needs to be recast properly with relevant information.

16. The details furnished under para 2.2.4.10, regarding classification; UNFC classification of the deposit i.r.o. both resources and reserve needs to be furnished with justifications properly.
17. The details furnished under para 2.2.4.12, in calculation of reserve table, UNFC code column is missing. The same needs to be furnished as per the templates.
18. The entire lease area should be explored under G1 level of exploration upto 300m depth /end of mineralisation.
19. The detailed information furnished under para 2.2.5.7 is not adequate. The same needs to be reviewed and rectified properly.
20. As it a fresh auctioned block; proposal for a petrology & mineralogical study of the auctioned block during the plan period needs to be proposed under para 2.2.6.8
21. The Pre-Feasibility Study report needs to be recast in view of the comments furnished in geology, mining and other chapters. The Pre-Feasibility Study report needs to be prepared conforming to Part V of the Schedule of MEMC Rule 2015.

### **CHAPTER-3: MINERAL PROCESSING**

22. Documentary evidence in support of the details furnished under para 3.1& 3.2 needs to be annexed.
23. Overall water requirement water balance diagram for mining and processing should be enclosed as annexure. Material balance chart/ flow diagram of mineral processing furnished in the annexure is not matched with text. The flow sheet should be corroborating the details furnished for screening and crushing.

### **CHAPTER-4: MINING OPERATIONS**

24. Para-4.1.2: Proposed features of Method of Mining should be described in prescribed table along with justification of site selection, production capacity and pit and bench parameters in brief.
25. The information under para 4.2.1.1 regarding pits is not matching with the surface geological plan and section furnished with the document.
26. Para-4.2.2.1 & 4.2.2.2: in details of bench parameters, under column "year wise development and production plan" & "year wise development and production section" the plate no. should be referred.
27. Para-4.2.2.2: in year wise opencast development, the table is not presented as per prescribed format. The column of OB to Ore ratio (T/m<sup>3</sup>) is not furnished. In recovery column, both recovery of production of main and mineral reject are to be furnished. The year wise location of advancement should be furnished in UTM co-ordinates and the direction of advancement is also to be furnished correctly as per development plan.
28. The details calculation table of five year production as enclosed in annexure-XVII, is not supported with calculation of OB/waste. In year wise tentative calculation summary of production of main, mineral reject and OB/waste should also be furnished.
29. The location of the waste dump is proposed over the low lying area (in valley of the lease area). Therefore valley dumping with adequate precautionary measures need to be proposed.
30. Under para 4.3.1, the blast vibration study report, bulk density study report and recovery study report and also any other related study reports should be proposed.
31. Para-4.4: In Machine Calculation, the tonnage factor/bulk density as considered under para-4.4.2 & 4.4.3 are not correctly furnished. The parameters of total handling (Ore and OB), bucket capacity, fill factors, swell factor, idle time and standby etc are to be considered.
32. Para-4.7.1 & 4.7.2, the proposed waste dump id is to be clearly mentioned. The new proposed stacks as furnished in text are not matched with development plan. It is to be corrected.

#### **CHAPTER-5: SUSTAINABLE MINING:**

33. Para-5.2: In year wise CSR initiatives, the basic requirement like ODF etc are to be proposed in 1st year onward. At the places where proposal is not furnished should be marked as nil and no any place should be left blank.

#### **CHAPTER-6: PROGRESSIVE MINE CLOSURE PLAN**

34. Para 6.2.2.2.1, the fencing proposal has not been furnished. Since this is virgin block therefore the year wise fencing proposal in view of proposed pit, magazine etc are to be proposed.
35. Para 6.2.2.2.2, the proposal of retaining wall and garland drain are to be revised as discussed during field visit.
36. The details furnished under para 6.2.3.2, regarding year-wise proposal for green belt development; location and proposed area covered needs to be furnished properly.
37. Para-6.2.11, Land use of lease area at the expiry of lease period (CONCEPTUAL STAGE) should be furnished in pursuant to the order dated 14.01.2020 passed by MOM, GOI, 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".

#### **CHAPTER-7: FINANCIAL ASSURANCE/PERFORMANCE SECURITY**

38. Under para 7.1 the year wise proposed degraded land as furnished in table has not been distinctly marked in FA plan. The area proposed under different heads i.e pit, dump etc are to be shown year wise

#### **CHAPTER-9: IMPACT ASSESSMENT**

39. Under para 9.2; the locations air, water noise and ground vibration monitoring stations are to be furnished. Para-9.3.4.3.1, the water requirement under mining and allied activity, drinking water etc are not correctly furnished. The details of water requirement should be furnished with water balance chart.

#### **PART-B**

##### **ANNEXURES**


40. Geological report vetted by State Govt., tender document, copy of LOI and all other necessary required document are to be submitted.
41. All the lithologs with chemical analysis of all the exploration work carried out till date should be submitted. The bulk density test report, recovery report etc are to be enclosed.
42. Copy of Declaration of Owner/Nominated Owner in case of Company/partnership firm, Copy of Registration of Company (RoC)/Partnership firm (Registration) & Deed, ID & Address Proof of Owner/ Nominated Owner are to be submitted.
43. Calculation of insitu tentative excavation year wise considering the cross-sections, Bench RL etc should be furnished.
44. The pre-feasibility report is to be submitted with the content of pre-feasibility report and analysis of economic viability of the project is to be described in detailed as per rule 16 and Part-V of MEMC Rule 2015 and enclosed in annexure. The economic viability of the project should be supported with NPV, IRR, Payback period by cash flow chart with total investment, operational cost, final price offer etc.


#### **PART-C**

##### **PLANS AND SECTIONS**

45. All plans and sections should be signed with date by Qualified Person. All plans and sections shall show a scale of the plan at least twenty five centimetres long and suitably subdivided.
46. All the plans should be submitted as hard copies and also soft copies in KML/KMZ/SHP/.DWG as prescribed in the templates. The submitted .shp files with the draft document are not in order, the same needs to be reproduced properly.

47. The precise area map of the auctioned block authenticated by the State Govt. needs to be submitted.
48. Key Plan: The key plan should incorporate all features as mentioned Rule 32 5 (a) of MCDR 2017. The approach road to the lease area should be shown.
49. Geological Plan & Section: (i) Limit of estimation should be as per MEMC rule 2015. (ii) The UNFC boundaries to be shown in Geological Plan and sections (iii) All the geological information to be furnished on geological plan and section strictly based on plans and sections of the geological report provided by the State Govt. Features shown beyond the said limit needs to be marked with question marks. (iv) The Geological Plan should be prepared as per the extant provision as laid down rule 32 (1) (b), (c) and (d) of MCDR'2017.
50. Development plans & Section: The top and bottom RL of the dump are to be furnished. In development plan. The proposed RL of the benches and haul road should be clearly mentioned. Year-wise development proposal within the auctioned block needs to be proposed within the limits of the horizon shown in the geological plan & section of the geological report provided by the State Govt. Hence the year-wise development proposals need to be recast properly.
51. Progressive Mine Closure plan and sections: Progressive Mine Closure plan and sections submitted with the draft document need to be prepared on the revised proposal and as per comments in PMCP chapter.
52. Conceptual plan and sections: The plan and sections should be prepared taking into consideration of the production from in-situ excavations, available reserves and resources describing the excavation, Disposal of waste, backfilling of voids, reclamation and rehabilitation measures etc. at the end of lease period.
53. Environment plan: The Environment Plan to be prepared as per the provision as laid down rule 32 (5) (b) of MCDR'2017. All the proposed features need to be removed from the environment plan.
54. Financial Assurance Area Plan: The area degraded due to mining and allied activity to be considered in FA calculation. The FA table needs to be furnished in the plan.

  
23/12/2021  
(S.K. MOHAPATRA)  
SMG

  
23.12.21  
(D. UPADHYAY)  
Sr. ACOM