

Scrutiny comments in respect of Review of Mining Plan w.r.t. Bihar Iron Ore mine (area 66.781ha) of M/s Nirmal Kumar Pradeep Kumar in Village- Merelgara, Distt. Singhbhum West, Jharkhand, submitted under Rule 17 (2) of MCR, 2016.

A. TEXT:

1. On the cover page: Type of Forest whether Reserve or Protected may be mentioned.
2. Page 1-i, para1.0 (a):-Name of Applicant has not been given.
3. Page 2-iii, para 2.0 (A)(a): Proposed Method of mining:- How Explosive would be procured, either by self or through outsourcing may be described. If explosive is to be procured by the lessee, it should be so stated and the copy of valid Explosive Licence in favour of the Lessee may be enclosed. Therefore the source of procurement of explosive should clearly be spelt out.
4. Page 2-xiv, Table 2.5: The ROM/Waste Ratio given for Non- Forest and Forest area is not correct. The same should be corrected.
5. Page 4-ii, para 4.0(a) Table showing production of ore & generation of Intercalated waste during Review of plan period: Yearwise Total Stripping Ratio may also be given.
6. Page 4-iii, para 4.0(a):- The Swell Factor for insitu waste to compact and Loose waste may be given.
7. Page 4-v, para4.0(c) & Page 8-xv,para 8.3.5, Proposed Protection measures:- The Protection measures for dumping during 2019-20 have not been proposed such as Settling Pond size & construction cost.
8. Page 5-ii, para 5.0(c): The Full Address i.e. Post Office, District, State of the Consuming Industries have not been given.
9. Page 7-ii, para 7.0(b): Number of Local Employees has not been given.
10. Page 8-ii, para 8.1(c): Water Quality:-The statement that water quality of Surface water and ground water is not affected due to mining activity is not correct as the SPM is bound to change during rainy season.
11. Page 8-iv, para 8.1(f):-Rainfall data:- The statement that since active mining pit will be above the surface level, there will be no accumulation of water even during heavy rain is not correct. The five year rainfall data should be enclosed.
12. Page 8-xvi, para 8.4: Name of Responsible Person, his address, contact number, Nearest Fire Station, Police Station, Hospital have not been given.
13. Page 8-xvii, para 8.4(v):- Forest fire has not been discussed.
14. Page 8-xi,& Page 8-xii, para 8.3.1:-The total degraded area in the Non-Forest land at the end of review of plan period has been given as 10.254ha.Since there is no proposal of reclamation, How the degraded land in the Non-Forest Area during Conceptual Stage will be 7.05ha. is not clear. It may be clarified.
15. Page 8-xix, para 8.4 (Structure of disaster management plan) (vi) : Stores and equipment - The detailed list of equipment with its type & capacity has not been given.
16. Page 8-xix, para 8.4 (Care and maintenance during temporary discontinuance): Instead of stating that if the mine will be discontinued temporarily for more than 120 days, notice will be given 30 days before the date of such discontinuance, as per Rule 28(1) of MCDR, 2017, “Notice in Form E will be given, when the mining or mineral processing operations in the mine or part thereof is discontinued for a period exceeding ninety days so as to reach the concerned authorities within one hundred and twenty days from the date of such temporary discontinuance, may be stated.
17. Page 8-xxi, para 8.6: Financial Assurance of Rs. 41,86,200/- (Rs. Forty one lakh eighty six thousand two hundred Only) valid upto 31/03/2020 have not been submitted.
18. Instead of Para 8.7, after Para 8.6, Para 9.0 may be given for Certificates/undertaking/consent letter, which should be in Part ‘B’, under Para 9 as per Universal Format.

19. List of Plan and Sections should be submitted as Para 10 of Part 'B' as per Universal Format.
20. List of Documents to be annexed should be given as Para 11 of Part 'B' as per Universal Format.
List of Annexure Number may also be given.

B. Geology & Exploration:

21. Exploration Proposed to be carried out during Plan Period - According to Rule 12(4) of MCDR 2017 *"In the case of existing mining leases detailed exploration (G1 level) over the entire potentially mineralized area under the mining lease shall be carried out within a period of five years from the date of commencement of these rules."*; in such a case the exploration proposals of the entire area in G1 level should be proposed accordingly.
22. Details of sub-grade mineral (i.e., mineral above Fe 45% and below Cut-off grade of the mine) is to be mentioned along with its utilization and stacking if any.
23. Estimation of Mineral Resource/Reserve:
 - a. Conversion factor: The bulk density of Iron and recovery factor should be based on field test.
 - b. From Table 1.5 to 1.12 UNFC coding is also to be mentioned in Measured and Indicated Category.
 - c. Table 1.14 and table 1.15 mention the Year of Reserve Estimation and check the total of Total Mineral Reserves, Total remaining Resources and Total Reserve and Resources, accordingly it should be updated wherever necessary.

Feasibility Report

24. Breakup of operating cost should be given at per ton of Ore.
25. Breakup of Royalty and other taxes should be given at per ton of Ore.

C. ANNEXURE:-

26. Annexure no. XI: (i) Mineral Analysis Report from NABL accredited laboratory has not been submitted. (ii) Whether R.V. Briggs & Co. Pvt. Ltd. is NABL accredited laboratory or not may be stated.
27. Annexure no. XVIII: The Bank Guarantee No. 4510IPEBG120001 dated 04/01/2012 of Rs 14,300/- (Rs. Fourteen thousand three hundred only) from Bank Of India has expired on 31/03/2016. Bank Guarantee of Rs. 41,86,200/- (Rs. Forty one lakh eighty six thousand two hundred Only) valid upto 31/03/2020 have not been submitted.
28. Annexure no. XX: Valid Explosive Licence in Form LE-3 in favour of M/s D.K Ghosh, I.O.C. Pump Complex, P.O. Barajamda, Dist. West Singhbhum, Jharkhand has not been enclosed.

C. PLATES:

1. No authenticated Cadastral Map/Khasra Plan has been submitted showing different plots in and around the lease.
2. Key Plan (Plate no.1):- (a) The Lease area should be shown in Red Colour.
(b) In the eastern side the area adjoining 5Km of lease area has not been shown.
(c) 1Km line may not be shown.
3. Geo referenced Superimposed Map & Plate No. 2 (Lease Plan): Boundary Pillar numbering is not in clockwise direction.
4. Plate No. III: (a) Boundary of Plot No. 831 & 891 has not been shown. (b) In Non-Forest area instead of 4(four), only 2(Two) quarries have been shown. May be reconciled.
5. Surface Plan (Plate no. 4): (a) Forest Area and Non-Forest area have not been shown prominently using suitable colours. (b) The serial number of Boundary pillars should be in clockwise direction. (c) Quarry no. 1, 2A &B may be resurveyed as it does not match the shape and size of these quarries seen in the field. (d) Subgrade/Mineral Dump have not been shown near Quarry no. 1, 2, 3 & 3A.
6. Geological section (Plate no. 6): few sections along North-South to be drawn showing features of prominent cluster of pits, dumps in proposed area of pits along South-West & extreme North-East areas of the lease. In all geological sections, Bore Holes made have not been shown.
7. Conceptual Plan (Plate no. 11) & Conceptual Section (Plate no.12):- (a) In Conceptual Plan, Backfilling at Ultimate stage has been stated in the Forest area but in the section (Plate no.12) Backfilling at Plan Period has been stated. May be reconciled.
8. Environment Plan (Plate no.13) :- (a) Lease area of Noamundi Iron Ore Mine of M/s Tata Steel Ltd. has not been shown. (b) Flow direction of seasonal nala has not been shown. (c) Broken area has not been marked prominently in the plan. (d) Tree density of Forest land has not been given.
