

SCRUTINY COMMENTS ON EXAMINATION OF MODIFICATION IN THE APPROVED MINING PLAN FOR AMPTIPANI BAUXITE MINE OF SHRI VISHAL MAHENDRU, LEGAL HEIR OF LATE B.N.MAHENDRU, OVER AN EXTENT OF 26.30 HECTARES, LOCATED IN AMPTIPANI VILLAGE, UNDER BISHUNPUR P.S OF GUMLA DISTRICT OF JHARKHAND STATE, SUBMITTED UNDER RULE 22(6) OF MCR,1960.

1. Certificates enclosed do not match with guidelines.
2. Legal heir certificate issued from the competent authority may be enclosed.
3. Fresh photocopy of Driving Licence and PAN card may be enclosed.
4. IIa, Boundary point and its longitude & latitude do not match.
5. P-10 (3.4), Status of violation written as 'complied' may be corrected as replied.
6. P-10(3.6) Justification not given.
7. P-13, Stratigraphic succession and geology chapter may be checked.
8. Copy of Form 'J' may be shown. Spacing of boreholes on pages 16 & 18 need reconciliation.
9. P-18, point J not covered. Feasibility report not enclosed.
10. P-19, Reserve as on 01.04.2015 do not match with Annex-12. Resource under (211) may be justified with Annex-12. Calculation of Resource and reserve as on 01.04.2011 may be furnished. Production considered for depletion of reserve is not correct. Accordingly available reserve and life of mine may be recasted. Latest Sample analysis reports from NAB laboratory to be enclosed.
11. P-23, plan period varies at different places may be corrected..
12. P-39, In Q-5, proposal is there for backfilling or for water reservoir may be clarified.
13. P-40, Land use pattern given , after 5 years plan period , after life of mine and page -55 do not match.
14. Plot no-2331(p) not shown on authenticated lease map whereas plot no 2431 shown on lease map do not figure in lease deed.
15. Compliance of lease deed condition for establishment of mineral based Industry(P-34,35) may be furnished.
16. Latest photographs of Quarries, Dump and pillars are to be enclosed.

17. Calculation of powder factors for O B, and Bauxite may be furnished.
18. Area 8.41 ha is GM land or Junglehari may be clarified.
19. P-47, 48, 49 Al₂O₃ content of Bauxite varies may be reconciled.
20. P-56, Statement made under heading forest may be checked.
21. P-39, Proposed reservoir in Q-5 not shown on reclamation plan.
22. No dump has been proposed. How concurrent backfilling will be carried without dumping.
23. P-61, Height of the backfills in the area do not match with the data mentioned in table.

PLAN & SECTION

1. All plan & section should be prepared as per rule 27(1)(ii) of MCDR 1988 showing a scale of the plan at least twenty five centimeters long and suitably sub-divided as per rule 27 of MCDR 1988.

1. Area plan and authenticated map do not match with plots mentioned in leased deed..

2. Plate no.-1. (Key plan).

Longitude and latitude do not match.

3. Plate no.- surface plan plan.

There are quarries and Dumps on safety zone and within junglehari need justification and confirm those dumps on non mineralised area. Signature of surveyor is missing. Date of survey is 19.10.2014. Latest survey plates may be enclosed.

5. Plate no.-4&4A. (Geological Plan and Section)

All Sections showing Bauxite horizon beyond 50m either side of the borehole and >10 m from quarry boundary may be corrected.

MINING PART

(1) The DGPS surveyed map/plan submitted showing UTM data instead of GPS data in compliance to CCOMs circular No.2/2010 and its addendum dated 21.09.2011 & 11.06.2014 regarding geo-reference cadastral map has not been submitted. Moreover, the undertaking submitted in compliance to the CCOM's circular No. 2/2010 is not acceptable at present.

Contd..3/-

(2) The photo copy of the death certificate of Late B.N. Mahendru & illegible declaration is enclosed as annexure-5, instead a legal heir certificate in favour of Shri Vishal Mahendru should be enclosed for clarity.

(3) The excavation planning for the year 2015-16 has been computed & enclosed as annexure-13 but the length, width of benches proposed in topsoil, laterite & bauxite has not been furnished, which may be mentioned. Besides, the location co-ordinates & the cross sections considered for the purpose is missing, which should also be furnished by adding more columns in the tabular annexure. Moreover, the recovery of bauxite ore is considered as 80% but the basis on which such recovery is considered should be justified with valid reasons. So, also the grade of the recoverable bauxite may be furnished supported by authenticated chemical analysis report for clarity. Likewise, the waste generation is indicated to be 20% but the basis for such generation has been considered also not mentioned, which should be furnished indicating the grade of such waste material. Besides, the calculations given for excavation planning for the period from 2016-17 to 2019-20 may also be revised. Accordingly, necessary corrections/modifications may also be made in connected paras in the text relevant plates.

(4) A copy of the agreement for carrying out blasting operations in the mine is enclosed as annexure-20 to the document but the copy of the explosive procurement license of the 2nd party enclosed along with the referred annexure is not legible, thereby a fresh copy of the same should be submitted. Besides, a copy of the blasters license for carrying out blasting operations also not enclosed.

(5) Few photographs showing the status of existing quarries, dump & few boundary pillars has been enclosed as annexure-22 but no photographs in support of existing status of exploration, reclamation & rehabilitation etc. have been enclosed.

(6) In case of individual or partner, a declaration/affidavit should be submitted to know whether he is working in other firms/company/organization etc.

(7) Existing method of mining has not been discussed in detail, as per the heading of the para, instead, only the categorisation of the mine has been furnished. Therefore, the existing method of mining should be discussed by furnishing the existing dimension of the quarry(s) indicating the working/non-working status. Moreover, the existing status of dump, reclamation & rehabilitation etc. may also be furnished. [Para 2.0(A)(a)]

(8) Under the heading **Proposed Method of Mining**, nothing has been given about the location co-ordinates/name of the quarry(s) involved excavation planning, which should be furnished. Accordingly, corresponding modifications/ incorporations may also be made in connected paras of the document and also in relevant plates. (Page No.22)

(9) Under the heading **Mining Strategy**, it is mentioned that, the mine is worked by Other than Fully Mechanised method, instead the current strategy of mine working should be discussed including the formation of benches/bench parameters, reclamation & rehabilitation etc. in detail and the para may be revised accordingly. (Page No. 22)

(10) Under the heading **Bench Design and Formation**, the exact number of benches proposed in overburden and in ore zone has not been specified, which should be indicated. Besides, the length of all the proposed benches may also be furnished. Again, it is found that, the modification document has been submitted for three years in the para but the same is indicated for five years in the front cover and other places of the document, thereby the same should be checked & corrected accordingly. (Page No. 23)

(11) (i) Under the heading **Insitu Tentative Excavation**, the proposed status of Soil & morrum/OB/SB/IB/ Ore/ Mineral Rejects generation has been furnished in tabular form but location co-ordinates of the excavation planning is missing in the table, which should be furnished by adding more columns in the table. Besides, the bench/RL of the excavation planning for each year has not been given, which should also be furnished by adding one more column in the table. Moreover, the recovery percentage of bauxite and waste generation has not been furnished, which should be indicated. Accordingly, corresponding incorporations/modifications may also be made in connected paras in the text & relevant plates. [Para 2.0(B)(I)]

(12) The name of the quarry(s)/location co-ordinates of the proposed workings should be furnished indicating the direction of advancement of quarry faces. Besides, the tentative dimension of the benches proposed to be made in topsoil, laterite/morrum & bauxite ore zone may also be specified. All should be presented in tabular form. In the light of the above, the information furnished in para 2.0(e) may also be revised. [Para 2.0(d)]

(13) The para is meant for conceptual mine planning, whereas, no information regarding the same has been furnished. Therefore, the excavation planning beyond the proposed modification period of five years should be furnished on account of development, production, dumping, reclamation, rehabilitation & afforestation up to the life of the mine. Besides, it is also found that, the occurrence of bauxite is found below the lairs of topsoil, morrum/laterite but the same has not been discussed in the refer para. Therefore, the factual information about the topsoil, morrum/laterite is required to be furnished indicating, the quantities of topsoil, morrum/laterite proposed to be generated by end of the conceptual period supported by calculations for more informative. [Para 2.0(f)]

(14) In 2nd table, the waste materials proposed to be generated in each year of the ensuing modification period has been furnished but the location co-ordinates and cross sections considered for the purpose is missing, which should be furnished by adding one more column in the table. (Page No. 39)

(15) In 3rd table, the extent of area proposed to be reclaimed and re-habilitated in each year of the ensuing five year period has been furnished but the location co-ordinates and cross sections considered for the purpose is missing, which should be furnished by adding one more column in the table for ease in monitoring. (Page No. 39)

(16) In 2nd table, the land use status after the five year period has been furnished; instead the same by end of each year of the ensuing five year period should be furnished in separate tables. (Page No.40)

(17) The plantation schedule for each year of the ensuing five year period has been furnished in tabular form but the location co-ordinates and cross sections considered for such plantation is missing, which should be furnished by adding one more column in the table for more informative. (Page No.42)

(18) The quality of water encountered in the area is missing, which should be furnished for more informative. [Para 3.0(c)]

(19) The month wise rainfall data has been furnished in tabular form but the data pertains to which financial year has not been indicated, which should be furnished for more informative. (Page No. 45)

(20) The quantities of topsoil proposed to be generated in each year of the ensuing modification period has been furnished in 2nd column of the first table but the location co-ordinates/cross sections considered for the purpose is missing, which should be furnished by adding one more column right to the table. [Para 4.0(a)]

(21) Under the heading **Recreation Facility**, the facilities available to the local people of the surrounding area should be furnished & rest of things should be erased. (Page No. 57)

(22) Quarry wise extent of area proposed to be degraded in each year of the ensuing five year period should be furnished. Besides, quarry wise reclamation, rehabilitation, restoration & afforestation for each year may also be furnished. All should be furnished in tabular form and rest of the things should be erased. (Para 8.3.1)

(23) Plate No. 3 (Surface Plan): The permanent ground control points have been taken from the temporary bench mark, which is well within the lease area and cannot be considered as ground control points outside the lease area. Therefore, atleast three permanent ground control points situated outside the lease area should selected and latitude & longitude of these ground control points may be furnished. Besides, these ground control stations need to be linked with the boundary pillars. Moreover, Surveyors signature is missing on the plate, which should be signed by a competent surveyor.

(24) Plate No.5 (Development Plan 2015-16): (i) It is found that, the area was last surveyed on 19.10.2014, which is almost a year back but the plan & sections are not updated, whereas, the excavation planning for the period from 2015-16 to 2019-20 have been depicted, which is not acceptable. Therefore, the plan & sections should be updated as on date before proposing the future mine planning. (ii) Besides, there are two quarries are proposed to be developed simultaneously, which is also not permitted. Therefore, any one of the quarry should be proposed and the second quarry can be proposed after the exhaustion of the 1st one. In the light of the above, the excavation planning proposed for the rest four years should be revised. Accordingly, the plate submitted for environment management plan, conceptual plan & sections, financial assurance plan and reclamation plan may also be revised.

All the pages of annexures enclosed with the document should be attested by the RQP.
