

**SCRUTINY OF DRAFT MODIFICATION IN APPROVED MINING PLAN IN RESPECT OF ORSA BAUXITE MINE (196.27 HA) IN VILLAGE ORSA, DISTRICT LATEHAR, STATE JHARKHAND OF
M/s HINDALCO IND. LTD SUBMITTED UNDER RULE- 17(3) OF MCR, 2016**

TEXT

01. Introduction:

- i) As per annexure 3, the Govt. of Jharkhand has extended the lease period up to 16/07/2036 over the part area of 196.27 ha as per MMDR Amendment Act, 2015 but it is mentioned that 'the State Govt. of Jharkhand renewed the mining lease on 16/03/2017 for the extended period as per MMDR Amendment Act, 2015 up to 16/07/2016'. Same may be corrected.
- ii) The rule under which mining plan was approved vide letter dated 11/05/2005 should be mentioned.

02. Geology and Exploration:

- No. of boreholes: i) It is mentioned that during the year 2016, lessee has drilled 25 nos. of boreholes in a grid of 100m & 50m. But the copy of Form J regarding intimation of drilling boreholes to the Regional Controller of Mines, IBM has not been enclosed.
- ii) Collar RL of borehole, date of commencement of borehole and date of completion of borehole are missing in the borehole log enclosed in annexure 5.
- iii) Sampling and grade: The validity of certificate of accreditation of NABL laboratory (Kalyani Laboratories Pvt. Ltd., Bhubaneswar) is upto 06/09/2015. A valid certificate of the laboratory should be attached.

03. Mining:

- i) Insitu tentative excavation: i) The figures for proposed development furnished in the table for the year 2017-18 are not matching with the figures furnished in the table of 'Insitu tentative excavation'. Same has to be corrected.
- ii) Salient features of proposed method of working: The mining is to be carried out by fully mechanized opencast method whereas the category of mine is mentioned as 'A (OTFM)'. Same may be corrected.
- iii) Bench Development over the five years:
 - a) During 2017-18, quarry 1 & quarry no.2 has been proposed to be developed. Temporary soil dump has been proposed for dumping of soil whereas dumping area for OB (laterite) has not been marked on the development plan.
 - b) During 2017-18, quantity of topsoil to be removed is 240920 cum. The area earmarked for temporary soil dump can accommodate about 110000 cum of topsoil. Same may be checked.
- iv) Extent of mechanization:
 - a) Quarry name mentioned Amtipani Chirodih bauxite deposit has to be corrected (page 33).

04. Processing of ROM and Mineral Reject:

In annexure 9, no analysis report from Earth and Environment lab. Bhubaneswar has been enclosed as mentioned.

05. Machineries Deployed:

2 nos. of DTH and 3 nos. of compressors mentioned under proposed mining machinery but under drilling and blasting 3 nos. of DTH and 5 nos. of compressors have been mentioned. May be checked & corrected.

06. Stacking of mineral reject (Page-49): Last sentence of para B has to be changed.

PLATES:

1. The DGPS surveyed map/report has not been submitted along with the document in compliance to CCOMs circular No.2/2010 and its addendum dated 21/09/2011 and 11/06/2014 regarding geo-referenced cadastral map.
02. Surface plan, Geological plan, development plan and Conceptual plan should bear date of survey.
03. Year wise Development Sections:
 - Year 2017-18:
RL of benches, Quarry no., top RL of proposed reclamation/rehabilitation etc. are not shown in the sections.
 - Year 2018-19:
RL of benches, Quarry no., top RL of proposed reclamation/rehabilitation etc. are not shown in the sections.
 - Year 2019-20:
RL of benches are not shown in the sections.
 - Year 2020-21:
RL of benches, Quarry no., top RL of proposed reclamation/rehabilitation, proposed plantation etc. are not shown in the sections.
 - Year 2020-21:
RL of benches, Quarry no., top RL of proposed reclamation/rehabilitation & their sequence proposed plantation etc. are not shown in the sections.
04. Reclamation Plan (Plate no. 13):
The year-wise area proposed to be covered under rehabilitation should also be shown in the plan.
05. Financial Assurance Plan (Plate no. 14):
Area considered as fully reclaimed & rehabilitated has shown as 'NIL' in the table for calculation of financial assurance. But reclaimed area and rehabilitated area shown in the plan. Same may be verified & corrected.
