

Draft Scrutiny comments on Mining Pan of Bhangaon Iron Ore Block (111.00 Ha.) of M/s SWML located in Village – Bhangaon, District – West Singhbhum of Jharkhand State.

- 1) As the area lies in the Saranda forest division the proposed mining plan should incorporate the proposal of mining including safeguarding/protection of the nature i.e., unnecessary cutting of trees be avoided, emission of dust to be controlled at source and eco-friendly transport of ore so that overloading of public roads etc., could be avoided. The control of vibration and noise should be checked under control as per statute.
- 2) Cover Page:
 - a. IBM registration no. is to be mentioned.
 - b. Under Rule 9(4) (b) (iii) should be mentioned under preferred bidder.
- 3) General:
 - a. Check the E-mail. Id as it differs from cover page.
- 4) Location & Accessibility:
 - a. Pg. -11 – The paragraph related to Correlation of GTS point should be checked once again.
- 5) Geology & Exploration:
 - a. Page 30- Mention the name of the department who has done the Geological Investigation.
 - b. Page No – 33 - Future exploration programme should be revised with adding some coring types boreholes with the DTH during first year of development to prove the barrenness of the unexplored area. Entire area should be explored as per Rule 12 of MCDR 2017. Table should be revised accordingly. To ascertain the ore reserves in a more accurate and precision manner. The proposed boreholes should be coring type so that the entire reserve (ie., grade & quantity) could be made in ultimate manner and use of DTH/RC boreholes should be avoided.
 - c. Cut-off grade should be mentioned for arriving at the reserve & resources.
 - d. All resources shall be assessed up to the threshold value and the resources between the threshold value and the cut-off grade shall be reported separately. There will however be no restrictions in estimating resources below the threshold value if there is a ready market of such mineral/ore either directly or after beneficiation. Mention the reject composition.
 - e. The non-saleable/un-usable minerals/ ores above the limit prescribed in the threshold value and below the cut-off grade shall be stacked separately in an area earmarked for the purpose.
 - f. Page no 40:- Para (I) Mineral Reserve & resources: - Area explored & to be explored should be mentioned by adding two columns under different level of Exploration or category of resources.
 - g. Pg. No. 46 – As the Table shows 4.71 MT of Resources in 333 category of Avg. grade 61.2 % of Fe is taken from the influence of G2 level of exploration and surface exposures, no drilling is included in the area, therefore the reported quantity should be considered under G3 level of exploration and is to be excluded from the table of UNFC.
- 6) Mining:
 - a. Mention clearly whether the HEMM will be procured by the lessee with his investment or hired.
 - b. Page no 47:- The already broken area / mine out area should be marked in Surface plan based on the given co-ordinates and or DGPS maps from the State Govt. The existing features located inside the proposed lease area should only be shown.
 - c. Page no 49:- All quantities under table no 17 should be mentioned in cubic meters instead of M.cum.
 - d. The shovel dumper combination is on higher capacity which may lead to under utilisation of HEMM. Hence appropriate combination should be mentioned with considering the factors like; Bucket fill factor, compaction factor etc., and cycle time for each combination.

- e. Mention the dust suppression methodology of the mine, transportation of ore from lease area to outside lease etc., w.r.t. mining proposed in details. Ore processing inside mine and location of plant to be installed for beneficiation should be mentioned. Water requirement /day and its source should be mentioned with rate of ground water recharge. If hired or installed with his own cost by the lessee should also be mentioned.
- f. The source of water availability and its location should also be mentioned clearly.
- g. Page no 50 to 58:- The table given for proposed land use during & after every year of working should be modified by adding column for land use breakup under Mineralized area, Non mineralized area , Unexplored area etc. The term virgin land should be modified as unused land. The last column should be marked as cumulative breakup at the end of every year.
- h. Page no 69 & 70:- Capacity of dumpers is on the higher side for this area. Same should be revised based on the availability, topographical features, safety, etc. Capacity of the Weigh Bridge should be reconcile whether it is with the vehicle or without vehicle.
- i. Employment potential should be revised based on the production capacity & others proposed infrastructure.

7) PMCP:

- a. Baseline data for Bhangaon iron ore block should be enclosed.
- b. Proposal for Installation of Digital Display Board for Data monitored under AAQ, Noise level, Water quality etc. is to be incorporated.
- c. Proposal for installation of water sprinklers for dust suppression during the transportation of material is to be incorporated.
- d. Page no 124:- The statement incorporated for submission of bank guarantee after the execution of lease deed same should be reconcile with the Rule 27 (1) of MCDR 2017 whether it is applicable for a mining lease granted through the auction or the mining lease granted under the provisions of clause (b) or clause (c) of sub-section (2) of section 10A, wherein the Mine Development and Production Agreement has been signed between the lessee and the State Government. The statement should be revised based on the comments mentioned above along with verify with the LOI given by the State govt.
- e. Proposal for resettlement of local villagers if found in the vicinity of the lease area should be incorporated as per State Govt. policies / rules.
- f. Ground water recharging methods should also be incorporated.

8) Annexure, Certificates & Undertaking:

- a. Few pages of the tender documents is incomplete or missing, same should be rearranged & incorporated properly.
- b. An undertaking by lessee should be given that the lessee will obtain all consents, approvals from competent authorities like SPCB, MoEF regarding utilisation of public infrastructure, public / forest road transportation. They should commit that environmental degradation like air, water, noise and vibration will be kept within permissible limits.

9) Plates:

- a. Co-ordinates of the boundary corners points/ pillars should be attached in Key plan, Plate no 1
- b. The already excavated/mine out area should be marked as the Co-ordinates /DGPS map provided by the State Govt.
- c. Colour code should be matched with plan & sections. Contrast different color code may be marked for better visibility/ identification.
- d. Mineralized Area, Non-mineralized area and unexplored area should be clearly demarcated in the respective plans with different colour coding / shading. Further the explored area should be differentiated for exploration under G1, G2 & G3 category.
- e. Instead of garland drain, mine drainage should be mentioned with appropriate direction. Colour code should accordingly be changed for clear understanding.