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Inspection Report cum Scrutiny comments on the Modified Mining Plan for Bade Bacheli Tin Mine over an extent of 17.087 Hectors in Bade Bacheli Village, Dantewada,Tehsil,Dantewada District of M/S Precious Minerals & Smelting Ltd.

1. **Introduction:** In the given Para in one place it is mentioned lease has been granted for 20 years and other place it is said for 30 years, the correction to be done.
   In the table furnished for details of other mining lease, the status of mines (working/nonworking) and validity of approved document is missing.
   Now the proposed period for mining plan was considered 2003-04 to 2007-08 which was approved on 2002 and lease was executed dated 19.11.1999.
   As mentioned in the text that working permission granted only for 4.914 out of total lease area of 5.314 ha., the same should be demarcated in surface & production plan.
2. **General**: The name of nominated owner with address, contact number, e-mail id, faxes no. to be mentioned.
3. **Review of Approved Mining Plan/Scheme of Mining:** The table furnished below also to included in the given Para and accordingly the details to be furnished

	Area proposed for put to use in last MP/SOM as per Financial assurance at end of five year period-			
	Item details	Proposed area in last document.(ha)	Actual area as on date (ha)	Remark
	i) Area under mining			
	ii) Storage for top soil			
	iii)Waste dump site			
	iv) Mineral storage			
	v) Infrastructure – workshop, administrative building etc.			
	vi) Roads			
	vii) Railways			
	viii)Tailing pond			
	ix) Effluent Treatment Plant			
	x) Mineral Separation Plant			
	xi) Township area			
	xii) Others (to specify)			
	xiii) Total in ha			

	a) Details of earlier Financial assurance submitted-	
	b) Amount of Financial Assurance	
	c) Validity of Financial Assurance-	

	Give status of compliance of violations pointed out by IBM along with Monthly and annual returns.			
Sr no	Date of inspection	Violation date	Rule violated	Compliance status
i)				

ii)				

iii)	Monthly and Annual return submission status during last three years--	

4. **Status of Compliance of Violation**: In the given Para it is mentioned that Rule 12(3) has violated and against modified mining plan submitted therefore no violation stand but correction to be made that the document is still not approved. As per new amendment in Rule 45 of MCDR, 1988 the monthly and annual returns to be submitted online which is still not submitted by lessee.
5. **Geological Reserves:** The reserves should be calculated as per mineral content and mineral evidence Rule, 2015. There is no feasibility/prefeasibility report enclosed and reserves has been given in 121, the same should be clarified.
6. **Mining**: As per the data furnished in review Para it is mentioned that in last three years(2013-14 to 2015-16) total production is 2.187 tons and the proposal is given more than 32 tons yearwise. The justification of sudden enhancement should be furnished.
   In given Para it is said that the working faces have been developed in 3 benches which is not correct as during mine visit it was observed the mine is working with single bench therefore proposal should given developed the benches scientifically as mentioned with maximum 2 meter height. The stripping ratio should be included in the proposed table.

Plates:

7. **Plat no.1 (key plan): The details of the deficiencies found on the plate are as follows**

(i) The road to be marked with different colour line differentiating whether it is village, public road, highway, etc and also it should marked properly in index.
(ii) Contours should be clearly visible at not more than 20 meter intervals and should be index.
(iii) Co-ordinates of extremities of lease area are not shown in the plan.
(iv) The forest area, govt. land, agriculture land, etc should be marked in the plate and also in index.
(v) The plate to be indexed properly, different colour code should used for showing different features.
(vi) Approach road for ML area is not shown.
(vii) Population of the villages falling within 5 km radius to be furnished in tabular form.

The plate should be revised.

8. **Khasra Plan:** As per CCOM circular 2/2010 a geo-reference cadastral map surveyed through DGPS, showing disposition of lease area certified by the competent authority of state government; has not been submitted. The lease plan should indicate all the details of Khasra on appropriate cadastral map indicating the extent of area of each Khasra that is covered under mining lease.
9. **Surface Plan**: During the inspection it was observed that the area was not surveyed properly and some of the pits and dumps not shown as per actual, the area to be resurveyed and according correction to be done.
   In the plate co-ordinates of boundary pillar given, it should be clearly mentioned for which boundary pillars co-ordinates given and also it is authenticated by state Govt. (DGM) or not. (Plate 4)

10. **Geological Plan:** In geological plan the lithology should be shown and same should be indexed properly. In geological plan G1, G2, G3 and G4 scale exploration area should be marked properly as per UNFC and Minerals (Evidence and Mineral contents) Rules,2015.
    It should be clarified how the ore body zone marked on the plan without having any exploration base particularly horizontally. The ore body shown along the pit is extended outside lease area and one more pegmatite body shown parallel to pit without having any exploration base. The same should be clarified.
    The sample collection point to be mark in the plate and the same along with the location and co-ordinate to be enclosed in the text and also by whom and the manner in which the representative samples have been drawn and prepared in the prescribed manner for analysis by an accredited laboratory has to be furnished in the text. (Plate 5)
11. **Yearwise production and development Plan:** During the mine visit it was observed that the pit is having one bench with 5-6 meter height but as the mine is working with manual method proposal should be given 1.5m -2.0m bench height. In the given plan the location of waste dump changed therefore kindly mentioned the use of or shifting of existing dump shown in surface plan. The proposal only to be given in G1 & G2 area as per UNFC. The correction to be done accordingly.(Plate 7&8)
12. **Conceptual Mining Plan:** A proper conceptual plan based on the long term design parameters of the mine covering all the mining and allied activities has not been furnished. All the activities should be furnished with extent of area and quantity involved in the form of 5 yearly blocks up to the lease period. The plate to be revised accordingly and same should be modoified in text .
13. **Environment Plan:**The plate should be enclosed as per Rule 28(b) of MCDR,1988 and in the given plate only the existing features with in lease area should be shown.
14. All the plates should be index properly as the features shown in the plan with the same colour code for clarity and signed with date. In development plant some area is shown as plantation but the same is not index.

Annexure:

15. As per Rule 15 of MCR, 2016 qualified person should have a degree in mining engineering or a post-graduate degree in Geology and professional experience of five year in supervisory capacity. The document in support of above mentioned should be enclosed.
16. Photo id proof of nominated owner should be enclosed
17. The copy of approval letter of last approved document should be enclosed.
18. List of Board of Directors with address, contact number and e-mail id should be furnished.
19. The copy of company registration should be enclosed.

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