

MCDR INSPECTION REPORT

General

S. N.	Particulars	Details
1	Name of Inspecting officer:	Sanjay Kumar Mahapatra, Assistant Controller of Mines
	Accompanying mine official with designation	Shri Vimal Lunia, Mine Representative
	Date of Inspection	27.09.2024
	Date of Previous Inspection	28.12.2022
	Date of Previous Inspecting officer	Shri Dayanand Upadhyay, DCOM
	Name of the Mine	Bade Bacheli Tin Ore Mine
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	7.739 Ha. Non forest
3	Minecode	60CHG03001
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/9859/2012
5	Name of the lessee, Address, phone, email and fax number	Precious Minerals & Smelting Limited semi urban industrial estate frezerpur jagdalpur ph. 07782-227129,227130 email:- pmsl10@rediffmail.com pmasl1996@gmail.com
6	Village	Bade Bacheli
7	Taluka/Mandal	Bade Bacheli
8	District	Dantewada
9	Pin code	494553
10	State	Chhattisgarh
11	Post office	Bacheli
12	Nearest police station	Bacheli
13	Nearest Railway station	Bacheli
14	Date of Grant of Mining Lease	11/10/2000
15	Date of Execution	11/10/2000
16	Date of opening of Mine	27/03/2002
17	Date of first Renewal, if applicable and its period & expiry	28/05/2021
18	Date of second Renewal, if applicable and its period & expiry	Under provision of Section 8A of MMDR Act, 2015 lease period is valid for 50 years i.e. up to 10.10.2050
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	N. A
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri Nirmal Lunia, Director Semi urban industrial estate frezerpur jagdalpur ph. 07782-227129, 227130 email- pmsl10@rediffmail.com pmasl1996@gmail.com
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri Nirmal Lunia, Director Semi urban industrial estate frezerpur jagdalpur ph. 07782-227129, 227130 email- pmsl10@rediffmail.com pmasl1996@gmail.com
22	Name of the Mines Manager with Address, phone,	U.D. Banjare

	email, fax number and date of appointment in mines	Semi urban industrial estate frezerpur jagdalpur ph. 07782-227129, 227130 email- pmsl10@rediffmail.com pmsl1996@gmail.com
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	U.D. Banjare B.E Mining 5 Years experience Semi urban industrial estate frezerpur jagdalpur ph. 07782-227129, 227130 email- pmsl10@rediffmail.com pmsl1996@gmail.com
24	Name of the Geologist, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	K.V. Krishana Rao Msc Geology 5 Years experience Semi urban industrial estate frezerpur jagdalpur ph. 07782-227129, 227130 email- pmsl10@rediffmail.com pmsl1996@gmail.com
25	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55& carrying out their duties as per rule 56 & 57.	Yes
26	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	DNT/TIN/MPLN-680/NGP dated 09.03.2000
27	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	Latter No. DNT/TIN/KHAYO/1233/2019/Raipur Dated. 22.06.2020
28	Mineral(s) granted in lease and proved for mining	Tin Ore
29	Method of Mining(Open cast, Underground)	Open cast
30	Category (Fully Mechanised, Others or Manual)	Mechanized
31	Captive/Non Captive	Captive
	Present EC Status	EC capacity 1500TPA
	Status of Financial Assurance	Rs 1000000/- Valid upto 31/03/2025

Exploration

S.N.	Item	Proposals for, 2023-24	Actual work during 2023-24	Remark
1a	Backlog of previous year	10	10	
1b	Exploration over lease area for Geological axis 1 or 2.	10	10	The 3.743 Ha .area explored as G1 Axis
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Not specified.	Precious Minerals and smelting Limited, 8,00,000/-	01/04/2023 to 17/06/2023
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not specified.	The 3.743 Ha. area explored as G1 Axis and remaining 3.996 Ha. is balance to be explored	The 3.743 Ha .area explored as G1 Axis
1e	Balance reserves as per latest	767.93 Ton	767.67 Ton	

	approved document			
1f	General remarks of inspecting officer on geology, exploration etc.	In 2023-24, Lessee has drilled 10 nos. of bore holes. The 3.743 Ha. area explored as G1 and remaining 3.996 Ha. is balance to be explored to convert to G1 Level of exploration.		

Development

S.N.	Item	Proposals for, 2023-24	Actual work during 2023-24	Remark
2a	Location of development w.r.t. lease area	E.527688m E to 5278883 E N 2068800m N to 2068600N	E.527688m E to 5278883 E N 2068800m N to 2068600N	Safety barrier of 7.5 meters wide along the mining lease boundary has not been maintained as excavation observed to be carried out between ML Boundary Pillar No 2 & 4 without such approval in the RMP..
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Separate benches in OB and Ore.	Separate benches in OB and Ore are maintained.	Separate benches in OB and Ore are maintained.
2c	Stripping ratio or ore to OB ratio	1:199.66	1:96.52 T/cu.m	
2d	Quantity of topsoil generation in m3	Not proposed	Nil	Nil
2e	Quantity of overburden generation in m3	2396 m3	52 m3	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc	Excavation observed to be carried out between ML Boundary Pillar No 2 & 4 without such approval in the RMP. Violation of Rule 11(1) of MCDR 2017 issued o 18.10.2024.		

EXPLOITATION

N.	Item	Proposals for, 2023-24	Actual work during 2023-24	Remark
3a	Number of pits proposed for production	Pit 1	Pit 1	Mining activity have been done only pit 1
3b	Quantity of ROM mineral production proposed	12 tonne	259 .700 KG	
3c	Recovery of salable/usable mineral from ROM production	12 tonne	259 .700 KG	
3d	Quantity of mineral reject generation	Nil	Nil	

3e	Grade of mineral reject generation and threshold value declared	Nil	Nil.	
3f	Quantity of sub-grade mineral generation	Nil	Nil.	
3g	Grade of sub-grade mineral generation	Nil	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual & Machanised	Manual & Machanised	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Not Specified.	Panning/washing method is adopted to recovery of Tin ore.	
3j	Provision of drilling & blasting in mineral benches	Not Proposed	No Blasting this year	
3k	Provision of mining machineries in mineral benches	Yes	Yes as per provision	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	OB 3 mtr Mineral 4 mtr	OB 3 mtr Mineral 4 mtr	
3m	Total area covered under excavation/pits	1.420 ha.	1.420 ha.	1.420 ha covered under pits.
3n	Ore to OB ratio for the pit/mine during the year	1:199.66	1:96.52	
3o	Total area put in use under different heads at the end of year	3.446 up to end of RMP period 2024-25	3.446	
3p	Production of ROM mineral during last six-year period, as applicable	2019-20 2020-21 2021-22 2022-23 2023-24	9 ton 6 ton 6 ton 12 ton 12 ton	409.800 Kgs. 341.000 Kgs. 391.900 Kgs. 328.300 kgs. 259.700 kgs.
3q	General remarks of inspecting officer on method of	Production has been carried out within approved limit as per proposal. Excavation observed to be carried out between ML Boundary Pillar No 2 & 4. Thus Violation of Rule 11(1) of MCDR 2017 issued o 18.10.2024.		

Solid Waste management-Dumping

S.N.	Item	Proposals for, 2023-24	Actual work during 2023-24	Remark
4a	Separate dumping of topsoil, OB & mineral reject (Rule 33, 37)	Yes	Yes	
4b	Location of topsoil, OB & mineral reject dumps	N.A.	N.A.	Proposal in Dump 1 Only
4c	Number of dumps within lease area and outside lease area	Within Lease area 5 nos.	Within Lease area 5 nos.	
4d	Location of dumps w.r.t. ultimate pit limit	E.5274883 E to 527588m E N 2068900m N to 2068600N	Within the proposed area.	Dumping carried on only on Dump 1 during the year 2023-24 as proposed.
4e	Number of active & alive dumps	5	5	Dumping carried

				on only on Dump 1 during the year 2023-24
4f	Number of dead dumps	0	0	
4g	Number of dumps stabilised	NIL.	Nil.	
4h	Whether Retaining wall or garland drain all along dumps are there	NIL.	Nil.	Maintain earlier constructed retaining wall
4i	Length of Retaining wall or garland drain all along dump	NIL.	Nil.	Maintain 150 mtr retaining wall & garland drain
4j	Number of settling ponds	Not proposed	Nil	
4k	Specific comments of inspecting officer on waste dump management	Separate dumping of OB is maintained. Dumping carried on only on Dump 1 during the year 2023-24 as proposed.		

Solid Waste management-Backfilling

S.N.	Item	Proposals for, 2023-24	Actual work during 2023-24	Remark
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Not proposed	Nil	
5b	Area under backfilling of mined out area	Not proposed	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 36)	Not proposed	Nil	
5d	Total area fully reclaimed & rehabilitated	Not proposed	Nil	
5e	General remarks of inspecting officer on backfilling, reclamation etc	Area not matured for (backfilling) reclamation & rehabilitation.		

Progressive Mine Closure Plan

N.	Item	Proposals for, 2023-24	Actual work during 2023-24	Remark
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 26(2).	Yes	Yes	
6b	Management of worked/mined out benches i) Area available for rehabilitation (ha) ii) Afforestation done (ha) iii) No. of saplings planted during the year iv) Cumulative no. of plants v) Any other specific method of rehabilitation vi) Cost incurred on watch & care during the year	Not proposed 0.270Ha. 150 Not specified Not proposed. Not specified	Nil 0.270Ha. 150 370 Nil. Rs 5500/-.	

6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L X B X D) ii) Void filled by waste/tailings iii) Afforestation on the backfilled area iv) Rehabilitation by making water reservoir v) Any other specific means	Not proposed.	Nil	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	Not proposed	Nil.	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Quarterly monitoring	Quarterly monitoring carried.	All parameters within limit.
6f	General remarks of inspecting officer on PMCP compliance & progressive closure operations	Area is not matured for reclamation and rehabilitation.		

Mineral Conservation

S.N.	Item	Proposals for, 2023-24	Actual work during 2023-24	Remark
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Manual sorting.	Manual sorting.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Manual sorting.	Manual sorting.	Panning/washing method is adopted to recovery of Tin mineral.
7c	Different grade of mineral sorted out at mines	Manual sorting.	Manual sorting.	Manually panning/washing method is adopted to recovery of Tin mineral.
7d	Any beneficiation process at mines	Panning/washing method	Panning/washing method	Manual panning by local labour.
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Manually Panning/washing method is adopted to recovery of Tin mineral.		

Environment

S.N.	Item	Proposals for, 2023-24	Actual work during 2023-24	Remark
8a	Separate removal and utilization of topsoil (Rule 36)	Nil	Nil	
8b	Concurrent use or storage of	Not proposed	Nil	

	topsoil			
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 37)	Yes	Yes	Separate dumping of OB/waste.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not proposed	Nil	Not matured for back filling
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not proposed	Nil	
8f	Baseline information on existence of plantation & additional Plantation done	150 nos in 0.270Ha	150 nos in 0.270Ha	Cumulative 370 plants.
8h	Water sprinkling on roads to control airborne dust	Yes	Water tanker	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Aesthetic beauty in and around mines area is Maintained.		

Compliance of Rule 45

S.N.	Item	COMMENTS		Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted upto August 2024 A.R. Submitted upto F.Y. 2023-24		
S.N.	Item	Details given in A.R. for the year 2022-23/ 2023-24	Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	U.D. Banjare (Mining Engineer)& Manager K.V. Krishna Rao (Geologist)	Not present during inspection	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	1.420 pit 1.550 Dump 0.476 Infrastructure & road	As per AR	
9d	Scrutiny of Annual return on afforestation	150 nos	As per AR	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Nil		
9f	Scrutiny of Annual return on ROM stock and/or graded ore	290 KG	As per AR	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex Mine Price & Production cost 1948/- per kg.	As per AR	
9i	Scrutiny of Annual return	86393/-	As per AR	

	on fixed assets			
9k	Scrutiny of Annual return on mining machineries	Generatpr Pump	As per AR	

10. Drone Survey Information and data thereof:- Drone Survey could not be covered due to permission not given by competent authority. For Non- submission of Satellite Imagery violation of Rule 34A read with Rule 11(1) & 62 was issued on 18.10.2024.

11- Status of compliance of MCDR, 2017 including therewith the rectification of outstanding violation of the rules.

- (i) No violation observed during previous inspection.
- (ii) Violation of Rule 11(1) , 34A read with Rule 11(1) & 62 of MCDR, 2017 are pointed out after current inspection. Violation letter issued on 18.10.2024

12. MIDPASS upload: Not Carried

As there is no drone data or Satellite imagery no entry in MIDPASS is made.

(संजय कुमार महापात्र)
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