

MCDR INSPECTION REPORT 2021-22

General:

Sl .No.	Particulars	Details
1	Name of the Mine	Bade Bacheli Tin Ore Mine, 7.739 hect.
2	Date of Inspection:	28/12/2022
3	Name of Inspecting Officer	Shri Dayanand Upadhyay, Sr. ACOM
4	Name of official accompanying inspection	Shri Dileshwar patel, Geologist
5	Last date of Inspection & Officer	25/08/2021, Shri D. Das, SMG
6	Total Lease Area (Ha) with breakup of Non-forest and forest land	7.739 Hect., Non forest
7	Mine code	60CHG03001
8	IBM Registration Number under rule 45 of MCDR, 1988/2017	IBM/9859/2012
9	Name of the Lease, Address, Phone, email and fax number	M/s Precious minerals & smelting limited add. semi urban industrial estate frezerpur jagdalpur ph. 07782-227129, 227130 email- pmsl10@rediffmail.com pmasl1996@gmail.com
10	Village	Bade Bacheli
11	Taluka/Mandal	Bade Bacheli
12	District	Dantewada
13	Pin code	494553
14	State	Chattisgarh
15	Post Office	Bade Bacheli
16	Nearest Police Station	Bade Bacheli
17	Nearest Railway Station	Kirandul
18	Date of Grant of Mining Lease	11/10/2000 (11/10/2000 TO 10/10/2020) Under provision of Section 8A of MMDR Act, 2015 lease period is valid for 50 years i.e upto 10/10/2050, however supplementary lease deed is not executed and it is under process.
19	Date of Execution	11/10/2000
20	Weekly day of rest	Wednesday
21	Date of opening of Mine	27/03/2002
22	Date of First Renewal, if applicable and its period & expiry	28/05/2021
23	Date of Second Renewal, if applicable and its period & expiry	N.A
24	Date of submission of renewal application if Mining Operations are continuing under deemed extension	N.A
25	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Nirmal Lunia, Director Semi urban industrial estate frezerpur jagdalpur ph. 07782-227129, 227130 email- pmsl10@rediffmail.com pmasl1996@gmail.com

26	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 pmsl1996@gmail.com
27	Name of the Mine Manager with Address, phone, email, fax number and date of appointment in mines	Shri Shivram Kashyap Semi urban industrial estate frezerpur jagdalpur ph. 07782-227129, 227130 email- pmsl10@rediffmail.com
28	Name of the Mining Engineer, Qualification and total experience with address, phone, email, fax number and date of appointment in the mine	Shri Shivram Kashyap Semi urban industrial estate frezerpur jagdalpur ph. 07782-227129, 227130 email- pmsl10@rediffmail.com
29	Whether Geologist and Mining Engineer appointment in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Yes
30	Date of Approval of Mine Plan/Modified Mine Plan with five- year period and specific condition in approval letter, if any.	Review of Mining Plan approved vide letter no. Dnt/Tin/MPLN-1233/2019, Raipur, Dated 22/06/2020
31	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five- year period and specific condition in approval letter, if any.	
32	Mineral(s) granted in lease and approved for Mining	Tin Ore
33	Method of Mining (Opencast, Underground)	Opencast
34	Category (Fully Mechanized, Others or Manual)	Others
35	Captive/Non-Captive	Captive
36	Present EC Status	EC capacity 1500TPA
37	Status of Financial Assurance	Rs 1000000/- Valid upto 31/03/2025

Scientific Mining: Compliance of proposals of approved Mining Plan/Review of Mining Plan:

1.0 Exploration:

S.N.	Item	Proposals (2021-22)	Actual Work (2021-22)	Remarks
1a	Backlog of previous year Proposals	10 nos. of bore holes	10 nos. of bore holes	10 nos. of bore holes drilled in 2021-22.
1b	Exploration over lease area for Geological axis 1 or 2.	G1 Level	G1 Level	G1 Level
1c	Exploration Agency & Expenditure in Lakh Rupees during the year	Not specified.	In house drilling. Expenditure incurred Rs 5,14,000 /-	In house drilling. Expenditure incurred Rs 5,14,000 /-
1d	Balance area to be explored to bring Geological axis in 1 or 2.	Not specified in Mining Plan.	10 nos. of bore holes drilled in 2021-22 in G1 Level.	10 nos. of bore holes drilled in 2021-22 in G1 Level.
1e	Balance reserves as on 01.04.2022	Balance reserves as on 01.04.2022, 674.905 ton		Balance reserves as on 01.04.2022, 674.905 ton
1f	General remarks of Inspecting officer on geology, exploration etc.	In 2021-22, Lessee has drilled 10 nos. of bore holes under G1 Level of exploration.		

2.0 Development:

S.N.	Item	Proposals (2021-22)	Actual Work (2021-22)	Remarks
2a	Location of Development w.r.t. lease area	E. 527688mE to 527888mE and N. 2068800mN to 2068600N	E. 527688mE to 527888mE and N. 2068800mN to 2068600N	Development is carried out within approved proposal.
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	1:199.66T/cu.m	1:64.08T/cu.m	Less development due to Covid Pandemic as well as demand and supply.
2d	Quantity of topsoil generation in m ³	Not proposed	Nil.	Nil.
2e	Quantity of overburden generation in m ³	1198 Cu.M	251.2 cu.m	Less development due to Covid Pandemic as well as demand and supply.
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	Development is carried out within approved proposal.		

3.0 Exploitation:

S. N.	Item	Proposals (2021-22)	Actual Work (2021-22)	Remarks
3a	Number of pits proposed for production	1pit	1pit	01 pit in 2021-22
3b	Quantity of ROM mineral production proposed	6 ton	391.900 KGS.	Less production due to Covid Pandemic as well as demand and supply.
3c	Recovery of Salable/usable mineral from ROM production	6 ton	391.900 KGS.	Recovery of Tin mineral is 0.5% form insitu tentative excavation/ROM .
3d	Quantity of mineral reject generation	Not Proposed	Nil	Nil
3e	Grade of mineral reject generation and threshold value declared	Not Proposed	Nil	Nil
3f	Quantity of sub-grade mineral generation	Not Proposed	Nil	Nil
3g	Grade of sub-grade mineral generation	Not Proposed	Nil	Nil
3h	Manual/Mechanized method adopted for segregation from ROM	Mechanized	Manual & Mechanized	Manual & Mechanized
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Not Proposed	Panning/washing method is adopted to recovery of Tin ore.	Panning/washing method is adopted to recovery of Tin ore.
3j	Provision of drilling & blasting in mineral benches	Not Proposed	Nil	Nil
3k	Provision of mining machineries in mineral benches	Yes	Yes As per provision.	Yes As per provision.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes	Bench height in overburden and mineral suitable for method of mining proposed in RMP.
3m	Total area covered under excavation /pits	1.432 hect.	1.335 hect.	1.335 ha covered under pits.
3n	Ore to OB ratio for the pit/mine during the year	1:199.66T/cu.m	1:64.08T/cu.m	Less development due to Covid Pandemic as well as demand and supply.
3o	Total area put in use under different			2.885 ha use

	heads at the end of year	3.171 hect.	2.885 hect.	under different heads at the end of year.
3p	Production of ROM mineral during last five-years period, as Applicable (tonne)	2017-18: 9T	301.400 KGS.	Production is within approved proposal.
		2018-19: 9T	21.800 KGS.	
		2019-20: 9T	409.800 KGS.	
		2020-21: 6T	341.000 KGS.	
		2021-22: 6T	391.900 KGS.	
3q	General remarks of inspecting officer on method of mining etc	Production has been carried out within approved limit as per proposal.		

4.0 Solid Waste Management-Dumping:

S.N.	Item	Proposals (2021-22)	Actual Work (2021-22)	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32,33)	Separate dumping of OB. Mineral reject not proposed. No Top soil proposed.	Separate dumping of OB. Mineral reject not proposed. No Top soil proposed.	Separate dumping of OB. Mineral reject not proposed. Top soil proposed utilized in plantation.
4b	Location of topsoil, OB & mineral reject dumps	527488mE to 527588mE & 2068720mN to 2068600N	527488mE to 527588mE & 2068720mN to 2068600N	527488mE to 527588mE & 2068720mN to 2068600N
4c	Number of Dumps within lease area and outside lease area	01 active dump within lease area	01 active dump within lease area	There are 04nos. of small old dump present in the lease area.
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL	Outside UPL	Outside UPL
4e	Number of Active & Alive dumps	01 active dump within lease area	01 active dump within lease area	There are 04nos. of small old dump present in the lease area.
4f	Number of dead dumps	Not Proposed	Nil	Nil
4g	Number of dumps established	Not Proposed	Nil	Nil
4h	Whether Retaining wall or garland drain all along dumps are there	Not Proposed	Nil	Nil
4i	Length of Retaining wall or garland drain all along dump	Not Proposed	Nil	Nil
4j	Number of settling ponds	Not Proposed	Nil	Nil
4k	Specific commends of inspecting officer on waste dump management	Separate dumping of OB is maintained.		

5.0 Solid Waste Management-Backfilling:

S.N.	Item	Proposals (2021-22)	Actual Work (2021-22)	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Not proposed	NIL	Area is not matured for reclamation and rehabilitation.
5b	Area under backfilling of mined out area	Not proposed	NIL	--do--
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Not proposed	NIL	--do--
5d	Total area fully reclaimed & rehabilitated	Not proposed	NIL	--do--
5e	General remarks of inspecting officer on backfilling, reclamation etc	Area is not matured for reclamation and rehabilitation.		

6.0 Progressive Mine Closer Plan:

S. N.	Item	Proposals (2021-22)	Actual Work (2021-22)	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly-Rule 26 (2)	Yes	Yes	Annual report on PMCP submitted
6b	Management of worked/mined out benches	Not Proposed	Nil	Nil
	Area available for rehabilitation (Ha)	Not Proposed	Nil	Nil
	Afforestation done (ha)	0.270 hect.	0.270 hect.	Afforestation done in 0.270 ha
	No. of saplings planted during the year	120 No. of saplings	120 No. of saplings	120 No. of saplings planted
	Cumulative no. of plants	Not specified.	120 No. of saplings	120 No. of saplings planted
	Any other specific method of rehabilitation	Not Proposed	Nil	Nil
	Cost incurred on watch & care during the year	Not specified.	About Rs 7200/-Cost incurred on watch & care during the year.	About Rs 7200/-Cost incurred on watch & care during the year.
6c	Compliance on reclamation and rehabilitation by backfilling Voids available for backfilling (L*B*D) Void filled by waste/tailings Afforestation on the backfilling Rehabilitation by making water	Not Proposed	Nil	Area is not matured for reclamation and rehabilitation.

	reservoir Any other specific means			
6d	Compliance of Rehabilitation of waste land within lease i. Afforestation ii. Area rehabilitation (ha) iii. Method of rehabilitation	Not Proposed	Nil	NIL
6e	Compliance of Environment monitoring (core zone & buffer zone)	Quarterly monitoring	Quarterly monitoring	Quarterly monitoring
6f	General remarks of inspecting officer on PMCP compliance & progressive closer operations	Area is not matured for reclamation and rehabilitation.		

7.0 Mineral Conservation:

S.N.	Item	Proposals (2021-22)	Actual Work (2021-22)	Remarks
7a	ROM mineral dispatch or grade wise sorting within lease area	Manual sorting.	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 sort out at mine	Manual sorting.	Manual sorting.	Manually panning/washing method is adopted to recovery of Tin mineral.
7d	Any beneficiation process at mines	Panning/washing method is adopted to recovery of Tin mineral.		Panning/washing method is adopted to recovery of Tin mineral.
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Panning/washing method is adopted to recovery of Tin mineral.		

8.0 Environment:

S.N.	Item	Proposals (2021-22)	Actual Work (2021-22)	Remarks
8a	Separate removal and utilization of topsoil (Rule32)	Not Proposed	Nil	NIL
8b	Concurrent use or storage of topsoil	Not Proposed	Nil	NIL
8c	Separate dumps for overburden waste rock, rejects and fines (Rule 33)	Yes	Yes	Separate dumping of OB/waste. No

				MR proposed.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not proposed	NIL	Area is not matured for reclamation and rehabilitation.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not proposed	NIL	Area is not matured for reclamation and rehabilitation.
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	200 nos in area 0.270 hect.	200 nos of plantation in 0.270 hect	200 nos of plantation in 0.270 hect
8g	Survival rate	Not specified.	Survival rate 75%	Survival rate 75%
8h	Water sprinkling on roads to control airborne dust	Water tanker		Water tanker
8i	General remarks of inspecting officer on aesthetic beauty in and around mine area	Aesthetic beauty in and around mines area is maintained by plantation.		

9.0 Compliance of Rule 45:

S N	Item	Comments		Remarks
9a	Status of submission of monthly and Annual returns	MR submitted up to December 2022 AR submitted up to July 2022		AR & MR are being submitted.
S N	Item	Details Given in A.R.	Observation of I/Officer	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining engineer, Geologist employment is furnished	Mining engineer, Geologist are employed in the mine.	Mining engineer, Geologist are employed in the mine.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Land use pattern furnished in AR.	Found in order.	Found in order.
9d	Scrutiny of Annual return on afforestation	200 nos.	200 nos.	200 nos.
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	Nil	Nil	Nil
9f	Scrutiny of Annual return on ROM stock and/or grade ore	Closing stock-17.300 KGS	Closing stock-17.300 KGS	Closing stock-17.300 KGS
9	Scrutiny of Annual return on sale	Ex Mine Price &	Ex Mine Price	Ex Mine Price

g	value, Ex. Mine price & production costs	production cost- Rs 1409/-	& production cost- Rs 1409/-	& production cost- Rs 1409/-
9i	Scrutiny of Annual return on Fixed assets	Fixed assets furnished in AR	Fixed assets furnished in AR	Fixed assets furnished in AR
9k	Scrutiny of Annual return on mining Machinerics	Furnished in AR	Furnished in AR	Furnished in AR

10- Details of violations observed during last inspection and the compliance status.

Violation of Rule 45(5) has been issued on 29/12/2022 to the lessee.

Date: 07/02/2023

Signature:
Name: (D. UPADHYAY)
Designation: Sr. ACOM