

MCDR INSPECTION REPORT 2021-22

General:

Sl .No.	Particulars	Details
1	Name of the Mine	Bade Bacheli Tin Ore Mine, 17.087 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	17.087 Hect., Non Forest
7	Mine code	60CHG03003
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	30/09/2003 (30/09/2003 To 29.09.2023) Under provision of Section 8A of MMDR Act, 2015 lease period is valid for 50 years i.e upto 29/09/2053, however supplementary lease deed is not executed and it is under process.
19	Date of Execution	30/09/2003
20	Weekly day of rest	Wednesday
21	Date of opening of Mine	19/04/2007
22	Date of First Renewal, if applicable and its period & expiry	N.A.
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 pmasl1996@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-1140/2017, Raipur, Dated 05/04/2018-
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 1800000/- Valid upto 31/03/2023

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	Not Proposed	Nil	Nil
1b	Exploration over lease area for Geological axis 1 or 2.	Not Proposed	Nil	Nil
1c	Exploration Agency & Expenditure in Lakh Rupees during the year	Not Proposed	Nil	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2.	Not Proposed	Nil	Nil
1e	Balance reserves as on 01.04.2022		Balance reserves as on 01.04.2022 is 468.19 ton	Balance reserves as on 01.04.2022 is 468.19 ton
1f	General remarks of Inspecting officer on geology, exploration etc.		In 2019-20, 02 nos. of bore holes was proposed by lessee and for non-commencement of proposed bore holes, violation of rule 11(1) was issued on 09/09/2021, which has been complied by lessee.	

2.0 Development:

S.N.	Item	Proposals (2021-22)	Actual Work (2021-22)	Remarks
2a	Location of Development w.r.t. lease area	E700 to E900 N300 to N520	E700 to E900 N300 to N520	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 as per proposal.	Separate benches in OB and Ore are maintained.
2c	Stripping ratio or ore to OB ratio	1:719 T/cu.m	1:61.35T/cu.m	Less development due to Covid Pandemic as well as demand and supply.
2d	Quantity of topsoil generation in m ³	750 Cu.M.	147 Cu.M.	Less development due to Covid Pandemic as well as demand and supply.
2e	Quantity of overburden generation in m ³	2696.25 Cu.M.	452.8cu.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.
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3.0 Exploitation:

S.N	Item	Proposals (2021-22)	Actual Work (2021-22)	Remarks
3a	Number of pits proposed for production	01 pit in 2021-22	01 pit in 2021-22	01 pit in 2021-22
3b	Quantity of ROM mineral production proposed	11.25 ton	738.150 kgs	Less production due to Covid Pandemic as well as demand and supply.
3c	Recovery of Salable/usable mineral from ROM production	11.25 ton	738.150 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	Semi-Mechanized	Semi-Mechanized	Semi-Mechanized method
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Not Proposed	Nil	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	Tractor/Dumper 10T capacity	Tractor/Dumper 10T capacity	Manual method. Tractor/Dumper is used to handling of OB/waste.
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	2.524 hect. During plan period.	0.610 hect	0.610 ha covered under pits.

3n	Ore to OB ratio for the pit/mine during the year	1:719 T/cu.m	1:61.35T/cu.m	Less development due to Covid Pandemic as well as demand and supply.
3o	Total area put in use under different heads at the end of year	5.715 hect. During plan period.	1.160 hect.	1.160 5ha use under different heads at the end of year.
3p	Production of ROM mineral during last five-years period, as Applicable (tonne)	2017-18: 11.25 ton	1377.300 Kgs.	Production is within approved proposal.
		2018-19: 11.25 ton	991.900 Kgs.	
		2019-20: 11.25 ton	2737.200 Kgs.	
		2020-21: 11.25 ton	1671.300 Kgs.	
		2021-22: 11.25 ton	738.150 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. Top soil proposed utilized in plantation.	Separate dumping of OB. Mineral reject not proposed. Top soil proposed utilized in plantation.	Separate dumping of OB. Mineral reject not proposed. Top soil proposed utilized in plantation.
4b	Location of topsoil, OB & mineral reject dumps	OB dump, E0.00 to W100 & N300 to N500	OB dump, E0.00 to W100 & N300 to N500	OB dump, E0.00 to W100 & N300 to N500
4c	Number of Dumps within lease area and outside lease area	01 dump within lease area	01 dump within lease area	There are 03nos. of small old dump present in the lease area.
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	Temporary dump within UPL	Temporary dump within UPL	Temporary dump within UPL
4e	Number of Active & Alive dumps	1 active dump.	1 active dump.	There are 03nos. 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 comments 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)	0.030	0.030 hect.	Afforestation done in 0.030 ha
	No. of saplings planted during the year	150no.	150 No. of saplings planted	150 No. of saplings planted
	Cumulative no. of plants	Not specified	150 No. of saplings planted during year.	150 No. of saplings planted during year.
	Any other specific method of rehabilitation	Not Proposed	Nil	Nil

	Cost incurred on watch & care during the year	Not specified	About Rs 7500/- Cost incurred on watch & care during the year.	About Rs 7500/- 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 reservoir Any other specific means	Not proposed	NIL	Area is not matured for reclamation and rehabilitation.
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.	Manually panning/washing method is adopted to recovery of Tin mineral.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Manual sorting.	Manual sorting.	Manually 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	Manual sorting.	Manual sorting.	Manually panning/washing method is adopted to recovery of Tin mineral.

7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Manually panning/washing method is adopted to recovery of Tin mineral.
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8.0 Environment:

S.N.	Item	Proposals (2021-22)	Actual Work (2021-22)	Remarks
8a	Separate removal and utilization of topsoil (Rule32)	Yes	Yes	Concurrent utilization of topsoil in plantation.
8b	Concurrent use or storage of topsoil	Yes	Yes	Concurrent utilization of topsoil in plantation.
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)	150 nos in area 0.030 hect.	150 nos of plantation in 0.030 hect	150 nos of plantation in 0.030 hect
8g	Survival rate	Not specified.	Survival rate 85%	Survival rate 85%
8h	Water sprinkling on roads to control airborne dust	Water tanker	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	150 nos.	150 nos.	150 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-242.800KGS	Closing stock-242.800KGS	Closing stock-242.800KGS
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production costs	Ex Mine Price & production cost- Rs 1188/-	Ex Mine Price & production cost- Rs 1188/-	Ex Mine Price & production cost- Rs 1188/-
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 Machineries	Furnished in AR	Furnished in AR	Furnished in AR

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

Violation of Rule 11(4) has been issued on 19/12/2022 and 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