

MCDR INSPECTION REPORT**1.0 GENERAL**

SN	Particulars	Details
1	Name of inspecting office & designation	S. Kartikeya, Jr. Mining Geologist, Indian Bureau of Mines, Raipur
2	Accompanying Mine Official with Designation	Shri Vimal Kumar Lunia, Director Shri Mohit Lunia, Representative of the Lessee. Shri Ashok Kumar John, Qualified Person
3	Date of inspection	17/03/2020
4	Name of the Mine	Nerli Tin Ore Mine
5	Total Lease Area (Ha) with breakup of Non-forest and forest land	Forest: NIL Non-Forest: 4.970 Ha. Total Lease area: 4.970 Ha.
6	Mine Code	60CHG03005
7	IBM Registration Number under rule 45 of MCDR, 1988	IBM/9859/2012
8	Name of the lessee, Address, phone, email and fax number	M/s Precious Minerals and Smelting Limited Semi Urban Industrial Area, Frezerpur, P.O. Jagdalpur, District: Bastar, State Chhattisgarh Pin code: 494001 Phone: +91 (0) 7782 – 228555 / 227247 Fax: +91 (0) 7782 – 227126 Email: pmasl1996@gmail.com pmsl10@rediffmail.com
9	Village	Nerli
10	Taluka / Mandal / District	Tehsil: Bade Bacheli, District: Dantewada
11	State	Chhattisgarh
12	Post office & PIN	Bacheli, Pin Code: 494553
13	Nearest police station	Bacheli
14	Nearest Railway station	Bacheli
15	Date of Grant of Mining Lease	07/07/2005 to 06/07/2025 (20 Years)
16	Date of Execution	07/07/2005
17	Date of opening of Mine	04/06/2008
18	Date of first Renewal, if applicable and its period & expiry	Not applicable. As per Section 8A of MMDR Amendment Act, 2015, Mining Lease period has been extended up to 50 years. Supplementary lease agreement for the extended period has not been made.
19	Date of second Renewal, if applicable and its period & expiry	Not applicable Initially Mining Lease has been granted to M/s Chhattisgarh Mineral Development Corporation Limited over an area of 5.03 Ha. Thereafter mining lease area has been reduced from 5.03 Ha. to 4.97 Ha. vide Govt. of Chhattisgarh letter no. F3-89/2003/12 Raipur dated 10/11/2006. Later on Mining Lease has been transferred from M/s CMDC Limited to M/s Precious Minerals and Smelting Limited, Jagdalpur (A Joint Venture

		Company of M/s CMDC Limited) on 15/06/2009
20	Date of submission of renewal application if Mining Operations are continuing under deemed extension	Not applicable
21	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri Nirmal Lunia, Director, M/s Precious Minerals and Smelting Limited Semi Urban Industrial Area, Frezerpur, P.O. Jagdalpur, District: Bastar, State Chhattisgarh Pin code: 494001 Phone: +91 (0) 7782 – 228555 / 227247 Fax: +91 (0) 7782 – 227126 Email: pmasl1996@gmail.com pmsl10@rediffmail.com Date of Appointment: 23/12/2006 Appointment Notice has not been sent. Deviation has been observed.
22	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Not appointed.
23	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Part Time Shri Somnath Sethiya M/s Precious Minerals and Smelting Limited Semi Urban Industrial Area, Frezerpur, P.O. Jagdalpur, District: Bastar, State Chhattisgarh Pin code: 494001 Phone: +91 (0) 7782 – 228555 / 227247 Fax: +91 (0) 7782 – 227126 Mobile: +91 (0) 9407696989 Email: pmasl1996@gmail.com pmsl10@rediffmail.com Date of Appointment: 01/04/2018 Appointment Notice has not been sent. Deviation has been observed.
24	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Part Time Shri Ubaran Das Banjare Qualification: B.E. (Mining) Experience: +5 years M/s Precious Minerals and Smelting Limited Semi Urban Industrial Area, Frezerpur, P.O. Jagdalpur, District: Bastar, State Chhattisgarh Pin code: 494001 Phone: +91 (0) 7782 – 228555 / 227247 Fax: +91 (0) 7782 – 227126 Mobile: +91 (0) 7697155494 Email: pmasl1996@gmail.com pmsl10@rediffmail.com Date of Appointment: 21/02/2018
25	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55 & carrying out their duties as	Yes, appointed, Part Time Shri K. V. Krishna Rao Qualification: M. Sc. (Geology) Experience: +4 yrs

	per rule 56 & 57.	M/s Precious Minerals and Smelting Limited Semi Urban Industrial Area, Frezerpur, P.O. Jagdalpur, District: Bastar, State Chhattisgarh Pin code: 494001 Phone: +91 (0) 7782 – 228555 / 227247 Fax: +91 (0) 7782 – 227126 Mobile: +91 (0) 9752305755 Email: pmasl1996@gmail.com pmsl10@rediffmail.com Date of Appointment: 19/02/2018
26	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Mining Plan approved vide letter no. DNT/CASS/MPLN-867/NGP Nagpur dated 09/11/2004 Proposal Period: 2005-06 to 2009-10 Modified Mining Plan approved vide letter no. DNT/TIN/MPLN-1072/2017-RPR Raipur dated 17/03/2017 Proposal Period: 2016-17 to 2019-20 Lapse Period: 2010-11 to 2015-16 (06 years)
27	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	Review of Mining Plan Provisionally approved vide letter no. DNT/TIN/MLN-1234/2019-RPR Raipur dated 01/04/2020 Proposal Period: 2020-21 to 2024-25
28	Mineral(s) granted in lease and proved for mining	Tin Ore and Associated Minerals
29	Method of Mining (Opencast, Underground)	Opencast
30	Category (Fully Mechanised, Others or Manual)	Category 'B' Manual
31	Captive/Non Captive	Captive
32	Existing EC Limit and validity	Not obtained, Under Process
33	Status of Financial Assurance as per rule 27 of MCDR, 2017	Rs. 4,00,000/- Vide BG no. 1227717BG0000039 dated 17/03/2017 and renewed till 31/03/2023 further renewed on 16/05/2020 up to 31/03/2025 Valid Up to 31/03/2025 Rs. 1,00,000/- Vide BG No.1227720BG0000071 dated 16/05/2020 valid up to 31/03/2025

Scientific Mining: Compliance of proposals of approved mining plan/scheme of mining. –

1.0 Exploration

SN	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	2017-18: 25 nos. of vertical Auger drill holes with the cumulative depth of 125 meters.	2017-18: 05 nos. of DTH boreholes have been drilled with the cumulative depth of 50 meters.	Deviation has been pointed out. Since the lease area belongs to the LWE affected area. Hence the revised

				proposal has been given for drilling in closed grid pattern in the provisionally approved document.
1b	Exploration over lease area for Geological axis 1 or 2.	Under G1 Category: 4.97 Ha	Under G2 category: 1.8062 Ha Under G3 category: 3.1638 Ha	-do-
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Rs. 1,25,000/- has been proposed under expenditure for drilling operations.	Could not be ascertained as no record has been maintained.	-do-
1d	Balance area to be explored to bring Geological axis in 1 or 2	Under G1 Category: 4.97 Ha	Under G2 category: 1.8062 Ha Under G3 category: 3.1638 Ha	-do-
1e	Balance reserves as on 01.04.2020 (in Tonnes)	Under (122): 25.482 Million Tonnes Under (222): 8.550 Million Tonnes Under (333): 60.112 Million Tonnes	Under (122): 25.482 Million Tonnes Under (222): 8.550 Million Tonnes Under (333): 60.112 Million Tonnes	Updated reserves and resources has been obtained from the provisionally approved document.
1f	General remarks of inspecting officer on geology, exploration etc.	Mine is temporarily discontinued since December 2017 due to no Environment Clearance. Notice of Temporary Discontinuance of the mining operation has not been submitted. Deviation has been pointed out.		

2.0 Development

SN	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area (Range in UTM/Local Coordinate/Plot No./Location)	2019-20: In between local co-ordinate N108 to N160 and E170 to E180	No development has been observed, as the Mine is temporarily discontinued since December 2017 due to no Environment Clearance.	-
2b	Separate benches in topsoil, overburden and mineral (Rule 13)	Topsoil/OB: 01 no. Mineral/Ore: 01 no.	-do-	-
2c	Stripping ratio or ore to OB	1 : 2526	-do-	-

	ratio			
2d	Quantity of topsoil generation in m3	500 CuM	-do-	-
2e	Quantity of overburden generation in m3	2019-20: No OB will be generated during the F.Y.	-do-	-
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	NIL		

3.0 Exploitation

SN	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	01 no.	01 no.	-
3b	Quantity of ROM mineral production proposed	2019-20: 1900 Metric Tonne.	No development has been observed, as the Mine is temporarily discontinued since December 2017 due to no Environment Clearance.	-
3c	Recovery of salable/usable mineral from ROM production	2019-20: 0.095 % from the ROM 500 grams per tonne.	-do-	-
3d	Quantity of mineral reject generation	No mineral-reject will be generated during the plan period.	-do-	-
3e	Grade of mineral reject generation and threshold value declared	Not mentioned in the approved document.	-do-	-
3f	Quantity of sub-grade mineral generation	No mineral sub-grade will be generated during the plan period.	-do-	-
3g	Grade of sub-grade mineral generation	Not mentioned in the approved document.	-do-	-
3h	Manual / Mechanised method adopted for segregating from ROM	Manual method has been proposed in the approved document for segregation of Cassiterite ore from the ROM.	-do-	-
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Manual panning has been proposed in the document for extraction of	-do-	-

		Cassiterite ore from the ROM.		
3j	Provision of drilling & blasting in mineral benches	No provision has been given in the approved document for drilling and blasting.	-do-	-
3k	Provision of mining machineries in mineral benches	02 nos. of tractor with 3.0 metric tonne capacity for transportation of ore/mineral	-do-	-
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Topsoil: 1.0 m Ore/Mineral (Tin bearing gravels): 2.0 m	-do-	-
3m	Total area covered under excavation/pits	0.215 Ha.	0.650 Ha.	-
3n	Ore to OB ratio for the pit/mine during the year	1 : 2526	No development has been observed, as the Mine is temporarily discontinued since December 2017 due to no Environment Clearance.	-
3o	Total area put in use under different heads at the end of year	Pit- 0.215 Ha. Waste/reject- 0.503 Ha. Others- 0.117 Ha.	Pit- 0.650 Ha. Waste/reject- 0.0 Ha. Others- 0.600 Ha.	-
3p	Production of ROM mineral during last five-year period, as applicable (in Metric Tonnes)	Yr- 2015-16: No Proposal (Lapse Period) Yr- 2016-17: 0.95 Metric Tonnes Yr- 2017-18: 0.95 Metric Tonnes Yr- 2018-19: 0.95 Metric Tonnes Yr- 2019-20: 0.95 Metric Tonnes	Yr- 2015-16: 0.016 Metric Tonnes (Actual without proposal) Yr- 2016-17: 0.03 Metric Tonnes Yr- 2017-18: 0.073 Metric Tonnes Yr- 2018-19: NIL Yr- 2019-20: NIL	-
3q	General remarks of inspecting officer on method of mining etc.	No production has been reported, as the mine is temporarily discontinued since December 2017 due to no Environment Clearance.		

4.0 Solid Waste Management-Dumping

SN	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 36, 37)	Proposal has been given in the approved document for	No development has been observed, as the Mine is temporarily	-

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		separate dumping of Topsoil and Overburden in the earmarked location towards western side of the lease area.	discontinued since December 2017 due to no Environment Clearance.	
4b	Location of topsoil, OB & mineral reject dumps (Range in UTM/Local Coordinate/Plot No./Location)	2019-20: Topsoil and Overburden: In between local co-ordinates N130 to N152 and E035 to E098	-do-	-
4c	Number of dumps within lease area and outside lease area	01 no.	-do-	-
4d	Location of dumps w.r.t. ultimate pit limit (Rule 14)	Proposed beyond ultimate pit limit.	-do-	-
4e	Number of active & alive dumps	01 no.	-do-	-
4f	Number of dead dumps	No proposal has been given in the approved document for dead dumping.	Not applicable.	-
4g	Number of dumps stabilised	No proposal has been given in the approved document for dump stabilization.	Not applicable.	-
4h	Whether Retaining wall or garland drain all along dumps are there	Proposal has been given in the approved document for construction of garland drain and siltation ponds around waste dump.	No development has been observed, as the Mine is temporarily discontinued since December 2017 due to no Environment Clearance.	-
4i	Length of Retaining wall or garland drain all along dump	Length of the retaining wall is mentioned in the approved document.	-do-	-
4j	Number of settling ponds	Proposal has been given in the approved document for construction of garland drain and siltation ponds around waste dump.	-do-	-
4k	Specific comments of inspecting officer	NIL		

5.0 Solid Waste Management-Backfilling

SN	Item	Proposals	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Proposal has been given in the approved document for backfilling after full extraction of the mineral from the mine during conceptual stage.	Not applicable as on date as the mineral is not completely mined out from the mine. Since the recovery of saleable / consumable ore is very less and the huge quantity of OB and Waste will be generated hence the entire produced Waste and OB will be used for ground restoration during conceptual stage.	-
5b	Area under backfilling of mined out area	Proposal for backfilling during plan period has not been proposed in the approved document.	Not applicable as on date.	-
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 36)	Proposal has been given in the approved document for use of 500 CuM topsoil for ground restoration.	No development has been observed, as the Mine is temporarily discontinued since December 2017 due to no Environment Clearance.	-
5d	Total area fully reclaimed & rehabilitated	Proposal has been given in the approved document for rehabilitation at 7.5 m barrier zone and along the waste dump through 200 nos. of plantations.	-do-	-
5e	General remarks of inspecting officer on backfilling, reclamation etc	NIL		

6.0 Progressive Mine Closure Plan

SN	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 23. Details should be given in the format as given in	Not submitted.	Deviation has been pointed out.	-

	Annexure-20.			
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	No proposal has been given in the approved document for rehabilitation at worked/mined out benches.	Not applicable.	-
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	No proposal has been given in the approved document for reclamation and rehabilitation by backfilling at voids area.	Not applicable as no voids are present within lease area.	-
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	200 nos. 0.052 Ha. (At 7.5 m barrier zone and along waste dump). By plantation.	Not done. No development has been observed, as the Mine is temporarily discontinued since December 2017 due to no Environment Clearance.	Deviation has been pointed out.
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Proposal has been given in the approved document for regular monitoring of Ambient Air and Water Quality from the buffer an core zone.	-do-	-
6f	General remarks of inspecting officer on PMCP compliance & progressive	NIL		

7.0 Mineral Conservation

SN	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within	Proposal has been given in the approved	No development has been	-

	lease area	document for manual sorting of Cassiterite Mineral (Tin Ore) with 30% Sn from the ROM before dispatch to the captive plant.	observed, as the Mine is temporarily discontinued since December 2017 due to no Environment Clearance.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Proposal has been given in the approved document for panning of ROM for extraction of Cassiterite mineral (Tin Ore).	-do-	-
7c	Different grade of mineral sorted out at mines	Cassiterite Mineral (Tin Ore) with 30% Sn through manual panning.	-do-	-
7d	Any beneficiation process at mines	Wet Panning of ROM has been proposed in the approved document for extraction of Cassiterite mineral (Tin Ore) within lease area.	-do-	-
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	NIL		

8.0 Environment

SN	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 36)	Proposal has been given in the approved document for separate removal of 500 CuM of Topsoil and its utilization for ground restoration at 7.5 m barrier zone.	No development has been observed, as the Mine is temporarily discontinued since December 2017 due to no Environment Clearance.	-
8b	Concurrent use or storage of topsoil	-do-	-do-	-
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 37)	Proposal has been given in the approved document for separate stacking of Topsoil, OB and Waste at the earmarked locations towards western side of the lease area.	-do-	-

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Since of recovery of the mineral is very less from the ROM, hence, the proposal has been given in the approved document for backfilling in the mined out area to restore the ground during conceptual stage.	-do-	-
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Proposal has been in the approved document for ground restoration through dumping of 500 CuM topsoil and plantation will be done over on it at 7.5 m barrier zone during F.Y. 2019-20.	-do-	-
8f	Baseline information on existence of plantation & additional plantation done (Rule 44)	F.Y. 2019-20: 200 nos. of plantation over 0.052 Ha. area at 7.5 m barrier zone.	Nil plantation has been done during the F.Y. 2019-20. No development has been observed, as the Mine is temporarily discontinued since December 2017 due to no Environment Clearance.	Deviation has been pointed out.
8g	Survival rate	Not mentioned in the approved document.	-do-	-
8h	Water sprinkling on roads to control airborne dust.	Proposal has been given in the approved document for water sprinkling through tractor mounted water tanker.	-do-	-
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	NIL		

9.0 Compliance of Rule 45

S. N.	Item	COMMENTS	Remarks
	Status of submission of Monthly and Annual returns	M.R. Submitted upto – April 2020 A.R. submitted upto- F.Y. 2019-20	NIL

S. N.	Item	Details GIVEN in A.R.	Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer: Shri U.D. Banjare Geologist: Shri Ashok John Manager: Shri Somnath Sethiya	Mining Engineer: Shri U.D. Banjare Geologist: Shri K. V. Krishna Rao Manager: Shri Somnath Sethiya	-
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit- 0.650 Ha. Waste/reject- 0.0 Ha. Others- 0.600 Ha.	Pit- 0.650 Ha. Waste/reject- 0.0 Ha. Others- 0.600 Ha.	-
9d	Scrutiny of Annual return on Afforestation	Within Lease area: 100 nos. with 1% survival rate.	Nil plantation has been done during F.Y. 2018-19 and 2019-20.	Deviation has been pointed out.
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Mineral Reject: NIL Grade: NIL	No mineral reject present in the mine.	-
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Closing Stock: ROM: NIL Graded Ore: 0.007 Metric Tonne	Closing Stock: ROM: NIL Graded Ore: 0.007 Metric Tonne	-
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Sale Value: NIL Ex-Mine Price: NIL Cost of Production: NIL	Mine is temporarily discontinued since December 2017 due to no Environment Clearance.	-
9i	Scrutiny of Annual return on fixed assets	Rs. NIL	Rs. NIL	-
9k	Scrutiny of Annual return on mining machineries	No mining machineries have been used and deployed during F.Y. 2019-20.	No mining machineries have been used and deployed during F.Y. 2019-20.	-

10- Details of violations observed during current inspection and compliance position of earlier violation pointed out:-

No outstanding violations have been found.

Date of Last Inspection, Name and Designation of the Inspecting Officer:

As per office records, no previous inspection has been done in this mine.

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Details of the Violations Pointed-out during Inspections:

नियम	उल्लंघन के प्रकार का विस्तृत ब्यौरा
Rule 26 (2)	A yearly report as per the format specified by the Indian Bureau of Mines, before 1st day of July every year setting forth the extent of protective and rehabilitative works carried out has not been submitted for the year 2018-19.
Rule 28 (1)	Notice of Temporary Discontinuance has not been sent to the authorized officer within one hundred and twenty days from the date of such discontinuance as the mine is non operational from December 2017.
Rule 46	Notice of Certain Appointment: Appointment notice of the Manager (Mines) and the Nominated Owner have not been sent in the prescribed format to the authorized officer within fifteen days from the date of such appointments.

Shaival Kartikeya
Jr. Mining Geologist
Indian Bureau of Mines, Raipur
Date of Inspection: 17/03/2020

(Name of the Inspecting Officer and Designation and Date)