

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	Bade Bacheli Tin Ore Mine
5	Total Lease Area (Ha) with breakup of Non-forest and forest land	Forest: NIL Non-Forest: 5.314 Ha. Total Lease area: 5.314 Ha. Working Permission has been Granted over an area of 4.914 Ha. area.
6	Mine Code	60CHG03002
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	Bade Bacheli
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	30/09/2003 to 29/09/2023 (20 Years)
16	Date of Execution	30/09/2003
17	Date of opening of Mine	03/07/2005
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. Later on Mining Lease has been transferred from M/s CMDC Limited to M/s Precious Minerals and Smelting Limited, Jagdalpur (A Joint Venture

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		Company of M/s CMDC Limited) on 13/12/2004
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

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	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/TIN/MPLN-795/NGP Nagpur dated 10/10/2002 Proposal Period: 2003-04 to 2007-08 Modified Mining Plan approved vide letter no. DNT/TIN/MPLN-1071/2017-RPR Raipur dated 20/02/2017 Proposal Period: 2016-17 to 2019-20 Lapse Period: 2008-09 to 2015-16 (08 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-1141/2017-RPR Raipur dated 04/04/2018 Proposal Period: 2018-19 to 2022-23
28	Mineral(s) granted in lease and proved for mining	Tin 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. 1,00,000/- vide BG No. 1227710BG000031 dated 29/03/2010 and renewed till 27/03/2021 and further extended up to 31/03/2023 dated 22/03/2018 valid up to 31/03/2023 Rs. 4,00,000/- vide BG No. 1227718BG000023 dated 02/02/2018 and renewed till 01/02/2023 and further extended up to 31/03/2023 dated 22/03/2018

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	2018-19: 02 nos. of core boreholes with cumulative depth of 60 meters 2019-20: 02 nos. of core boreholes with cumulative depth of 60 meters	None of the boreholes have been drilled so far. Deviation has been pointed out.	The mine is temporary discontinued due to no Environment Clearance since February 2018

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1b	Exploration over lease area for Geological axis 1 or 2.	-do-	-do-	-do-
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Name of the exploration agency is not mentioned in the approved document. Proposed expenditure for 04 nos. of boreholes is Rs. 2,16,000/-	-do-	-do-
1d	Balance area to be explored to bring Geological axis in 1 or 2	Proposal has been given in the approved document for addition 04 nos. of core boreholes to know the existence of the parallel reef/vein.	-do-	-do-
1e	Balance reserves as on 01.04.2020 (in Tonnes)	Under (111): 263.160 Tonnes Under (221): 135.240 Tonnes	Under (111): 266.160 Tonnes Under (221): 135.240 Tonnes	-do-
1f	General remarks of inspecting officer on geology, exploration etc.	<p>The mine is temporary discontinued due to no Environment Clearance since February 2018.</p> <p>Nil production has been reported after January 2018.</p> <p>Notice of Temporary Discontinuance of the mining operation has not been submitted. Deviation has been pointed out.</p>		

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-ordinates S010 to S015 and E220 to E2235	The mine is temporary discontinued due to no Environment Clearance since February 2018. Nil production has been reported after January 2018.	-
2b	Separate benches in topsoil, overburden and mineral (Rule 13)	Topsoil/OB: 01 no. Mineral/Ore: 02 nos.	-do-	-
2c	Stripping ratio or ore to OB ratio	2019-20: 1 : 749	-do-	-
2d	Quantity of topsoil	2019-20: 75 CuM	-do-	-

	generation in m3			
2e	Quantity of overburden generation in m3	2019-20: 299.5 CuM	-do-	-
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	The mine is temporary discontinued due to no Environment Clearance since February 2018. Nil production has been reported after January 2018.		

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	1.5 Metric Tonne	The mine is temporary discontinued due to no Environment Clearance since February 2018.	-
3c	Recovery of salable/usable mineral from ROM production	0.5%	-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 panning 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 Cassiterite ore from the ROM.	-do-	-
3j	Provision of drilling & blasting in mineral benches	No provision has been given in the approved document for	-do-	-

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		drilling and blasting.		
3k	Provision of mining machineries in mineral benches	Tractors 02 nos. with 3.0 metric tonne capacity.	-do-	-
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Topsoil/OB: 1.0 m Mineral/Ore: 2.0 m	-do-	-
3m	Total area covered under excavation/pits	0.390 Ha.	0.390 Ha.	The mine is temporary discontinued due to no Environment Clearance since February 2018.
3n	Ore to OB ratio for the pit/mine during the year	2019-20: 1 : 749	No development and production have been observed, as the Mine is temporarily discontinued since February 2018 due to no Environment Clearance.	-
3o	Total area put in use under different heads at the end of year	Pit- 0.390 Ha. Waste/reject- 0.716 Ha. Others- 0.178 Ha. Up to end of review period.	Pit- 0.605 Ha. Waste/reject- 0.560 Ha. Others- NIL Up to end of F.Y. 2019-20	-
3p	Production of ROM mineral during last five-year period, as applicable (in Metric Tonnes)	Yr- 2015-16: No Proposal Yr- 2016-17: 1.50 Metric Tonnes Yr- 2017-18: 1.50 Metric Tonnes Yr- 2018-19: 1.50 Metric Tonnes Yr- 2019-20: 1.50 Metric Tonnes	Yr- 2015-16: 0.119 Metric Tonnes Yr- 2016-17: 0.031 Metric Tonnes Yr- 2017-18: 0.074 Metric Tonnes Yr- 2018-19: NIL Metric Tonnes Yr- 2019-20: NIL Metric Tonnes	Lapse Period: 2008-09 to 2015-16 (08 years)
3q	General remarks of inspecting officer on method of mining etc.			

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 separate dumping of Topsoil and Overburden in the earmarked location towards southern side of the lease area.	No development and production have been observed, as the Mine is temporarily discontinued since February 2018 due to no Environment Clearance.	
4b	Location of topsoil, OB & mineral reject dumps (Range in UTM/Local Coordinate/Plot No./Location)	2019-20: In between local co-ordinates Topsoil: S132 to S145 and E099 to E115 Overburden: S128 to N152 and E129 to E139	-do-	-
4c	Number of dumps within lease area and outside lease area	Within lease area: 05 no. Outside lease area: NIL	Within lease area: 04 no. Outside lease area: NIL	-
4d	Location of dumps w.r.t. ultimate pit limit (Rule 14)	Proposed beyond ultimate pit limit.	Most of the dumps are in temporary in nature and situated within ultimate pit limit.	-
4e	Number of active & alive dumps	02 nos.	No development and production have been observed, as the Mine is temporarily discontinued since February 2018 due to no Environment Clearance.	-
4f	Number of dead dumps	Dead dumps: 03 nos.	Dead dumps: 03 nos.	-
4g	Number of dumps stabilised	No proposal has been given in the approved document for stabilization of dead dumps. The entire produced waste will be utilised for reclamation and rehabilitation in the mined out area.	Not applicable.	-

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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 and production have been observed, as the Mine is temporarily discontinued since February 2018 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 the 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	Proposal has been given in the approved document	No development and production have been	-

	area (Rule 36)	for use of 75 CuM topsoil for ground restoration. Temporary stored in between local co-ordinates S132 to S145 and E099 to E115. Further utilised for plantation.	observed, as the Mine is temporarily discontinued since February 2018 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 towards south western side of the lease area and along the waste dump through 150 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 Annexure-20.	Not submitted.	Deviation has been pointed out.	-
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	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.	-

	iii) Afforestation on the backfilled area iv) Rehabilitation by making water reservoir v) Any other specific means			
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	150 nos. 0.030 Ha. (At 7.5 m barrier zone and along waste dump). By plantation.	Not done. No development and production have been observed, as the Mine is temporarily discontinued since February 2018 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 and 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 lease area	Proposal has been given in the approved document for manual sorting of Cassiterite Mineral (Tin Ore) with 30% Sn from the ROM before dispatch to the captive plant.	No development and production have been observed, as the Mine is temporarily discontinued since February 2018 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	-do-	-

		Cassiterite mineral (Tin Ore) within lease area.		
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 75 CuM of Topsoil and its utilization for ground restoration at 7.5 m barrier zone.	No development and production have been observed, as the Mine is temporarily discontinued since February 2018 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 in between local co-ordinates Topsoil: S132 to S145 and E099 to E115 Overburden: S128 to N152 and E129 to E139 towards southern 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	Proposal has been in the approved document for ground restoration through	-do-	-

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	operations (Pits, dumps etc)	dumping of 75 CuM topsoil and plantation will be done over on it at 7.5 m barrier zone during F.Y. 2019-20.		
8f	Baseline information on existence of plantation & additional plantation done (Rule 44)	F.Y. 2019-20: 150 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 and production have been observed, as the Mine is temporarily discontinued since February 2018 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.	No development and production have been observed, as the Mine is temporarily discontinued since February 2018 due to no Environment Clearance.	-
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 – May 2020 A.R. submitted upto- F.Y. 2018-19	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,	Pit- 0.605 Ha. Waste/reject- 0.560 Ha.	Pit- 0.605 Ha. Waste/reject- 0.560 Ha.	-

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	reclaimed area, dumps etc.	Others- NIL	Others- NIL	
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: 0.009 Metric Tonne	Closing Stock: ROM: NIL Graded Ore: 0.009 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	The mine is temporarily discontinued since February 2018 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:

Shri J. S. Hada, Asstt. Mining Geologist, Date of inspection: 23/02/2018

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 February 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.

(Name of the Inspecting Officer and Designation and Date)

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