MCDR INSPECTION REPORT

1.0 GENERAL

SN	Particulars	Details	
1	Name of inspecting office &	S. Kartikeya, Jr. Mining Geologist,	
1	designation	Indian Bureau of Mines, Raipur Shri A. K. Mishra, General Manager (Mines) and	
2	Accompany with Mine		
_	Officials	Agent (Mines)	
3	Date of inspection	24/02/2021	
4	Name of the Mine	Hahaladdi Iron Ore Mine	
5	Total Lease Area (Ha) with	Forest: 66.00 Ha.	
3	breakup of Non-forest and	Non-Forest: NIL	
	forest land	Total Lease Area: 66.00 Ha.	
6	Mine Code	30CHG08009	
7	IBM Registration Number	IBM/22230/2018	
'	under rule 45 of MCDR, 1988	1DIVI/22230/2010	
8	Name of the lessee, Address,	M/s Pushp Steels and Mining (P) Limited	
	phone, email and fax number	751, Ground Floor,	
	,	Kundewalan Street, Ajmeri Gate,	
		Delhi, Pin Code: 110 006	
		Phone: +91 (0) 11 - 45572321 / 45794221	
		Fax: +91 (0) 11 – 25221162	
		Email: pushpsteels@gmail.com	
9	Village	Hahaladdi & Chahchad	
10	Taluka / Mandal / District	Forest Division – East Bhanupratappur,	
		Taluka – Durgukondal,	
		District – Uttar BastarKanker	
11	State	Chhattisgarh, Pin Code: 494669	
12	Post office & PIN	Durgukondal	
13	Nearest police station	Durgukondal	
14	Nearest Railway station	Bhanupratappur	
15	Date of Grant of Mining	05/01/2017 for the period starting from	
	Lease	07/01/2017 to 06/01/2067 (50 years)	
16	Date of Execution	07/01/2017	
17	Date of opening of Mine	01/03/2018	
18	Date of first Renewal, if	Not applicable, Mining lease has been granted after	
	applicable and its period &	the enforcement of MMDR Amendment Act, 2015.	
	expiry		
19	Date of second Renewal, if	Not Applicable.	
	applicable and its period &		
	expiry		
20	Date of submission of	Not Applicable.	
	renewal application if Mining		
	Operations are continuing		
	under deemed extension		
21	Name of the Nominated	Shri Atul Jain, Director,	
	Owner with Address, phone,	M/s Pushp Steels and Mining (P) Limited	
	email, fax number and date	751, Ground Floor,	
	of appointment	Kundewalan Street, Ajmeri Gate,	
		Delhi, Pin Code: 110 006	
		Phone: +91 (0) 11 – 45572321 / 45794221	
		Fax: +91 (0) 11 – 25221162	
		Email: pushpsteels@gmail.com	
		Date of Appointment: 01/03/2019	

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	Shri Ashish Kumar Mishra, General Manager (Mines) M/s Pushp Steels and Mining (P) Limited 751, Ground Floor, Kundewalan Street, Ajmeri Gate, Delhi, Pin Code: 110 006 Phone: +91 (0) 11 – 45572321 / 45794221 Fax: +91 (0) 11 – 25221162 Email: pushpsteels@gmail.com Date of Appointment: 25/01/2019
24	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Not appointed. Deviation has been pointed out.
25	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55 & carrying out their duties as per rule 56 & 57.	Not appointed. Deviation has been pointed out.
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. KNK/FE/MPLN-944/NGP Nagpur dated 13/10/2006 Proposal Period: 2016-17 to 2020-21
27	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	NIL
28	Mineral(s) granted in lease and proved for mining	Iron Ore (Hematite)
29	Method of Mining(Opencast, Underground)	Opencast
30	Category (Fully Mechanised, Others or Manual)	Category 'A Fully Mechanised'
31	Captive/Non Captive	Captive
32	Existing EC Limit and validity	Production Capacity 0.40 Million Tonnes Per Annum Obtained from Ministry of Environment, Forest and Climate Change, Government of India, vide letter no. J-11015/484/2006-IA.II(M) New Delhi dated 28/01/2008
33	Status of Financial Assurance as per rule 27 of MCDR, 2017	Mine Development and Production Agreement (MDPA) has been made on 07/01/2017 for Rs. 2,08,68,883/- vide BG No. 40630IGL0006518 Dated 27/04/2018 Valid up to (Extended): 27/04/2021

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

1.0 Exploration

SN	Item	Proposals	Actual work	Remarks
1a	Exploration over lease area for Geological axis 1 or 2.	2016-17 to 2019- 20: 25 nos. of boreholes with the cumulative depth of 700 meters. Under G1 Level: 66.00 Ha.	2019-20 to 2020-21: 10 nos. of boreholes with the cumulative depth of 185.70 meters. Under G2 Level: 23.00 Ha.	Deviation has been pointed out.
			Under G4 Level: 38.50 Ha.	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Not mentioned in the approved Mining Plan dated 13/10/2006.	M/s SS Mineral Exploration & Allied Geoservices, Nagpur	-
1d	Balance area to be explored to bring Geological axis in 1 or 2	Under G1 Level: 66.00 Ha.	Under G2 Level: 23.00 Ha. Under G4 Level: 38.50 Ha.	Deviation has been pointed out for non achievement of the Exploration Proposal.
1e	Balance reserves as on 01.04.2020 (in Million Tonnes)	Under (111): 1.363 Million Tonnes Under (121): 0.8673 Million Tonnes Under (122): 0.8673 Million Tonnes	Under (111): 1.576 Million Tonnes Under (121): 0.8673 Million Tonnes Under (122): 0.8673 Million Tonnes	-
1f	General remarks of inspecting officer on geology, exploration etc.	NIL		

2.0 Development

SN Item Proposals Actual work Remarks Location of development w.r.t. lease area (Range in UTM/Local Coordinate/Plot No./Location) SN Item Proposals Actual work Remarks In-between local coordinates co-ordinates 2016-17 to 2019- 20: (1) S47 to S46 and W04 to W00 E04 to E08	<u> </u>	Development			
w.r.t. lease area (Range in UTM/Local Coordinate/Plot No./Location) co-ordinates 2016-17 to 2019- 20: (1) S47 to S46 and W04 to W00 co-ordinates 2016-17 to 2019-20: (1) N12 to N16 and E04 to E08	SN	Item	Proposals	Actual work	Remarks
(2) S46 to S42 and W00 to E02 (3) S32 to S26 and E02 to E06	2a	w.r.t. lease area (Range in UTM/Local Coordinate/Plot	co-ordinates 2016-17 to 2019- 20: (1) S47 to S46 and W04 to W00 (2) S46 to S42 and W00 to E02 (3) S32 to S26	ordinates 2016-17 to 2019-20: (1) N12 to N16 and	-

		(4) S14 to S08 and E06 to E08.5 (5) N02 to N06 and E04 to E08 (6) N06 to N12 and E04 to E08 (7) N12 to N18 and E02 to EE04 (8) N20 to N24 and E02 to E06		
2b	Separate benches in topsoil, overburden and mineral (Rule 13)	Topsoil: NIL OB/Waste: NIL nos. Mineral: 04 nos.	Topsoil: NIL OB/Waste: 01 nos. Mineral: 03 nos.	-
2c	Stripping ratio or ore to OB ratio	Not calculated in the last approved document.	Approx 1: 0.0 Nil waste has been generated during F.Y. 2016-17 to 2019-20	-
2d	Quantity of topsoil generation in m3	As per the last approved document no topsoil is present in the area.	Negligible quantity of topsoil has been produced and same has been utilised for plantation purpose.	-
2e	Quantity of overburden generation in m3	110000 CuM of overburden will generated F.Y. 2016-17 to 2019-20	Nil overburden has been generated during F.Y. 2016-17 to 2019-20.	-
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	08 no.	01 no.	-
3b	Quantity of ROM mineral production proposed	98280.00 Metric Tonnes	79300.00 Metric Tonnes	-
3c	Recovery of salable/usable mineral from ROM production	90%	Approx 100%	-
3d	Quantity of mineral reject generation	No mineral reject will be generated during plan period.	72740.00 Metric Tonnes of screen reject with (-) 5 mm size and (-) 10 mm have been generated up to February 2021.	-
3e	Grade of mineral reject generation and threshold value declared	Not mentioned in the approved document.	Not applicable.	-
3f	Quantity of sub-grade mineral generation	No mineral sub- grade will be	No mineral sub- grade is present in	-

		produced from	the mine.	
		the mine during period.		
3g	Grade of sub-grade mineral generation	Not mentioned in the approved document.	Not applicable.	-
3h	Manual / Mechanised method adopted for segregating from ROM	No proposal has been given in the approved document for manual / mechanised method adopted for segregating from ROM.	of salable / consumable ore from the ROM.	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Proposal has not been given in the approved document for beneficiation.	screening through power screen is	-do-
3j	Provision of drilling & blasting in mineral benches	Diameter: 34.0 mm Depth: 1.5m to 1.6m meters Spacing: 1.0 meters Burden: 0.90 meters	Diameter: 34.0 mm Depth: 1.5m to 1.6m meters Spacing: 1.0 meters Burden: 0.90 meters	-
3k	Provision of mining machineries in mineral benches	 Jack Hammer 06 nos. with 34 mm dia. Screw Compressor 02 nos. with 430 cfm. Shot Firing m/c 02 nos. with 100 shots capacity. Excavator cum Loader 02 nos. with 1.20 CuM bucket capacity. Tippers 12 nos. with 8.0 CuM carrier size. 	 Excavator cum Loader 02 nos. with 1.10 CuM bucket capacity Tippers 12 nos. with 8.0 CuM carrier size. Jack Hammer 06 nos. with 34 mm dia. Screw Compressor 02 nos. with 430 cfm. 	-
31	Whether height of benches in overburden and mineral suitable for method of	Height: Mineral/Ore: 6.0 meters	Height: Mineral/Ore: 6.0 meters	-

	mining proposed in MP/SOM			
3m	Total area covered under excavation/pits	10.574 Ha. up to the end of plan period.	7.440 Ha. up to end of F.Y. 2018-19	-
3n	Ore to OB ratio for the pit/mine during the year	1 : 0.81	1:0.79	-
30	Total area put in use under different heads at the end of year	Pit- 5.20 Ha. Waste/reject- Nil Ha. Others- 2.40 Ha. up to end of F.Y. 2020-21	Ha.	Deviation has been pointed out for excess utilization of the area.
3p	Production of ROM mineral during last five-year period, as applicable (in Metric Tonnes)	Yr- 2016-17: 89,460.00 Metric Tonnes Yr- 2017-18: 89,460.00 Metric Tonnes Yr- 2018-19: 94,500.00 Metric Tonnes Yr- 2019-20: 98,280.00 Metric Tonnes Yr- 2020-21: 1,05,840.00 Metric Tonnes	Yr- 2017-18: NIL Yr- 2018-19: 79,000.00 Metric Tonnes Yr- 2019-20: 79,300.00 Metric Tonnes Yr- 2020-21:	-
3q	General remarks of inspecting officer on method of mining etc.	Mechanised Crus erected in betwee	n UTM co-ordinates N 489020 to E489130 v	

4.0 Solid Waste Management-Dumping

SN	Item	Proposals	Actual work	Remarks
4a	Separate dumping of	No proposal has	72740.00 Metric	Deviation
	topsoil, OB & mineral	been given in the	Tonnes of Screen	has been
	reject (Rule 36, 37)	approved	Reject with (-) 10	pointed
		document for	mm and (-) 5 mm	out.
		dumping of topsoil,	ore has been	
		waste, mineral	stacked in between	
		reject within mining	UTM co-ordinates	
		lease area.	(1) N2241380 to	
			N2241560 and	
			E489090 to	
			E489160	
			(2) N2241900 to	
			N2241985 and	
			E489100 to	
			E489160	
			Without any	
			approved proposal.	

4b	Location of topsoil, OB & mineral reject dumps (Range in UTM/Local Coordinate/Plot No./Location)	-do-	-do-	-do-
4c	Number of dumps within lease area and outside lease area	Topsoil: NIL Waste/OB: NIL Ore/Mineral: NIL	Topsoil: NIL Waste/OB: NIL Ore/Mineral: 01 no. Mineral Reject: 02 nos.	-do-
4d	Location of dumps w.r.t. ultimate pit limit (Rule 14)	No proposal has been given in the approved document for dumping of topsoil, waste, mineral reject within mining lease area.	02 nos. of dumps of mineral reject are present within ultimate pit limit.	-do-
4e	Number of active & alive dumps	-do-	Active and Alive: Mineral Reject: 02 no.	-
4f	Number of dead dumps	Not proposed in the approved document.	No dead dump within lease area.	-
4g	Number of dumps stabilised	Not proposed in the approved document.	Not applicable.	-
4h	Whether Retaining wall or garland drain all along dumps are there	No proposal has been given in the approved document for construction of garland drain and retaining wall.	Retaining wall has been made around the dumps of mineral reject.	-
4i	Length of Retaining wall or garland drain all along dump	Not mentioned the approved document.	Could not be ascertained as no updated record has been maintained.	-
4j	Number of settling ponds	No proposal has been given in the approved document for construction of settling ponds.	Not applicable.	-
4k	Specific comments of inspecting officer	NIL		

5.0 Solid Waste Management-Backfilling

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SN	Item	Proposals	Actual work	Remarks
5a	Status on part or full	Proposal has been	Mineral/ore has not	-
	extraction of mineral from	given in the	been mined out	
	mined out area before	approved document	completely from	
	starting backfilling	for reclamation by	the block no. 3 and	
		backfilling in 14.0	4 and area not	
		ha. in block no. 3	matured for	

		and 4.	backfilling.	
5b	Area under backfilling of mined out area	-do-	-do-	-
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 36)	No topsoil present within the lease area.	•	-
5d	Total area fully reclaimed & rehabilitated	Reclamation by backfilling in 14.0 ha. area in block no. 3 and 4 has been proposed.		-
5e	General remarks of inspecting officer on backfilling, reclamation etc	NIL		

6.0 Progressive Mine Closure Plan

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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 on time.	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	Reclamation by backfilling in 14.0 ha. area in block no. 3 and 4 has been proposed.	Area not matured for reclamation and rehabilitation.	
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 in the void area as no void area is present within the mining lease area.	Not applicable.	-
6d	Compliance of Rehabilitation of waste land within lease	Reclamation by backfilling in 14.0 ha. area in block no. 3	Area not matured for reclamation and rehabilitation.	-

	i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	and 4 has been Few plantations have been done along the 7.5 m safety / barrier zone.	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Proposal has been given in the approved document for regular Monitoring of the Environmental parameters as per MoEF Guidelines. Being done as per proposal.	All the paramet ers are within the prescribe d limit.
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	No proposal has been given in the approved document for gradewise sorting of ROM before its dispatch.	Mechanised crushing and screening has been erected within lease area for grade wise sizing and sorting. 5mm to 18 mm and 10mm to 40mm size ore is being segregated from the ROM.	-
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	-do-	-do-	-
7c	Different grade of mineral sorted out at mines	-do-	-do-	-
7d	Any beneficiation process at mines	Not proposed in the approved document.	Mechanised Crushing and Dry Screening.	-
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)	No topsoil present in this area.	No topsoil has been generated during F.Y. 2019- 20	-
8b	Concurrent use or storage of topsoil	-do-	-do-	-

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 37)	No proposal has been given in the approved document for dumping of topsoil, overburden, waste rock, rejects and fines.	72740.00 Metric Tonnes of Screen Reject with (-) 10 mm and (-) 5 mm ore has been stacked in between UTM coordinates (1) N2241380 to N2241560 and E489090 to E489160 (2) N2241985 and E489100 to N2241985 and E489160 Without any approved proposal.	Deviation has been pointed out.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Proposal has been given in the approved document for restoration of the degraded 14.0 ha. area to its original use in block no. 3 and 4.	Area not matured for backfilling.	-
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	-do-	-do-	-
8f	Baseline information on existence of plantation & additional plantation done (Rule 44)	No proposal has been given in the approved document for plantation during F.Y. 2019-20.	Few saplings have been planted along 7.5m barrier zone.	-
8g	Survival rate	Not mentioned in the approved document.	Approx 50%	-
8h	Water sprinkling on roads to control airborne dust	No proposal has been given in the approved document for water sprinkling on roads to control airborne dust.	Not in the practiced.	-
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	NIL		

9.0 Compliance of Rule 45

S.	Item	COMMENTS	Remarks
N.			
	Status of submission of Monthly and Annual returns	M.R. Submitted upto – February 2021 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: Not Appointed Geologist: Shri Ranjan Maharana Manager: Shri A. K. Mishra	Mining Engineer: Not Appointed Geologist: Not Appointed Manager: Shri A. K. Mishra	Deviation has been pointed out.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit- 2.80 Ha. Waste/reject- 4.50 Ha. Others- 1.50 Ha.	Pit- 2.80 Ha. Waste/reject- 4.50 Ha. Others- 1.50 Ha.	NIL
9d	Scrutiny of Annual return on Afforestation	Within Lease Area: 5000 nos Outside Lease Area: NIL.	Within Lease Area: Few saplings have been planted. Outside Lease Area: NIL.	NIL
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Mineral Reject: NIL Grade: NIL	Mineral Reject: NIL Grade: NIL	NIL
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Closing Stock ROM: 10000.000 Metric Tonnes Graded Ore: Lumps: (1) Below 55% Fe: 15803.320 Metric Tonnes (2) 55% to below 58% Fe: 17630.060 Metric Tonnes (3) 58% to below 60% Fe: 16972.320 Metric Tonnes (4) 60% to below 62% Fe: 2246.400 Metric Tonnes Fines: 1) Below 55% Fe:	58% Fe: 17630.060 Metric Tonnes (3) 58% to below 60% Fe: 16972.320 Metric Tonnes (4) 60% to below 62% Fe: 2246.400 Metric Tonnes Fines: 1) Below 55% Fe:	Obtained from the monthly returns for the month of February 2021
		45415.000 Metric Tonnes (2) 55% to below 58% Fe: 27325.000 Metric Tonnes	` '	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Sale Value: NIL Ex-mine Price: Lump: (1) 55% to below	For Captive users Ex Mine Price should not be less than the Cost of	has been pointed out

		58% Fe: Rs. 1096.00 Per Metric Tonne (2) 58% to below 60% Fe: Rs.	Production.	Monthly as well as in the Annual Returns.
		1000.00 Per Metric Tonne (3) 60% to below 62% Fe: Rs. 1000.00 Per Metric Tonne		
		Fines: 1) Below 55% Fe: Rs. 1000.00 Per Metric Tonne (2) 55% to below 58% Fe: Rs. 1000.00 Per Metric Tonne		
		Cost of Production: Rs. 1014.46 Per Metric Tonne		
9i	Scrutiny of Annual return on fixed assets	Rs. 91272664.00	Rs. 91272664.00	NIL
9k	Scrutiny of Annual return on mining machineries	Details have been given in the returns	Cross verified from filed logbooks.	NIL

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

No outstanding violations have been found as no previous inspection has been done in this mine.

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

No previous inspection has been done in this mine.

Details of the Violations Pointed-out during Inspections:

नियम	उल्लंघन के प्रकार का विस्तृत ब्यौरा	
नियम	The following deviations have been found in the mine from the approved Mining Plan vide letter	
संख्या 11	no. KNK/FE/MPLN-944/NGP Nagpur dated 13/10/2006 for the period of F.Y. 2016-17 to 2020-	
(1)	21:	
	Exploration: During F.Y. 2016-17 to 2020-21; it was proposed to drill 25 nos. of boreholes up to	
	the cumulative depth of 700 meters; whereas, 10 nos. of boreholes with the cumulative depth of	
	185.70 meters have been drilled so far.	
	Stacking of Screen Reject: 72740.00 Metric Tonnes of Screen Reject has been stacked in	
	between UTM co-ordinates:	
	(1) N2241380 to N2241560 and E489090 to E489160	
	(2) N2241900 to N2241985 and E489100 to E489160	
	Without any approved proposal.	

नियम	A yearly report as per the format specified by the Indian Bureau of Mines, before 1st day of July
संख्या 26	every year setting forth the extent of protective and rehabilative works carried out has not been
(2)	submitted for the financial year 2017-18 to 2019-20.
नियम	Updated print copy of the surface geological plan and sections has not been submitted before 30th
संख्या ३३	day of June for the financial year 2017-18 to 2019-20.
नियम	Annual return for F.Y. 2019-20:
संख्या 45	Part – V; General Geology & Mining (Sec 1/2 for Iron Ore): Sec 5/6/8/9: Incomplete details of
(7)	the Mining Machineries have been given. Such as details of the tipper, drilling machine etc. are not
	mentioned in the list.
	Part – VI; (Production, Dispatches and Stock) and Part – VII; Cost of Production:
	Cost of Production and the Ex-Mine Price of the graded ore are not matching. Moreover, Ex-Mine
	Price of the mineral/ore should not be less than the Cost of Production of mineral/ore.
नियम	Notice of Certain Appointment: Appointment notice of Nominated Owner has not been sent to
संख्या ४६	the authorized officer within fifteen days from the date of such appointments.
नियम	Full-time Mining Engineer and a Geologist are not been appointed.
संख्या 55	

(Name of the Inspecting Officer and Designation and Date)

Shaival Kartikeya Jr. Mining Geologist Indian Bureau of Mines, Raipur Date of Inspection: 24/02/2021