

## MCDR Report

1) Name of Inspecting officer:	Shri Prem Prakash
2) Designation	Regional Controller of Mines
3) Accompanying mine official with designation	Shri Surya Shekhar Tiwari, lessee Representative and Shri Chhagendra Sahu - Mining Engineer
4) Date of Inspection	15.02.2023
5) Date of Previous Inspection	24.02.2021

### GENERAL INFORMATION

Sl.No	Particulars	Details
1	Name of the Mine	Hahaladdi Iron Ore Mine
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	Forest: 66.00 Ha. Non-Forest: NIL Total Lease Area: 66.00 Ha.
3	Minecode	30CHG08009
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/22230/2018
5	Name of the lessee, Address, phone, email and fax number	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
6	Village	Hahaladdi
7	Taluka/Mandal	Durgukondal
8	District	Kanker
9	Pin code	494669
10	State	Chhattisgarh
11	Post office	Bhanupratappur
12	Nearest police station	Lohattar
13	Nearest Railway station	Keoti
14	Date of Grant of Mining Lease	05.01.2017
15	Date of Execution	07.01.2017
16	Date of opening of Mine	25.10.2018
17	Date of first Renewal, if applicable and its period & expiry	N.A. for Mining Lease
18	Date of second Renewal, if applicable and its period & expiry	N.A.
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	N.A.
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri Atul Jain, 751, Ground Floor, Kundewalan Street, Ajmeri Gate, Delhi - 110006, pushpsteels@gmail.com Fax No. - 01125221162
21	Name of the Mine Agent with Address, phone, email, fax number and date of	-

	appointment	
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Shri Rakesh, M/s Pushp Steels and Mining (P) Limited 751, Ground Floor, Kundewalan Street, Ajmeri Gate, Delhi, Pin Code: 110 006 Email: pushpsteels@gmail.com mines@pushpsteelsmining.com
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri Chhagendra Kumar Sahu, Date of appointment – 11.09.2022, Experience - 07 Years, Contact No. 9340411748, mines@pushpsteelsmining.com
24	Name of the Geologist, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri Vinay Kumar Mishra, Qualification – B. Sc Geology, Date of appointment – 15.06.2020, experience – more than 20 years.mines@pushpsteelsmining.com
25	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Yes
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.	Review of Mining Plan approved vide letter no. KNK/FE/MPLN-1265/2020-RPR dated 20.05.2021 Proposal Period: 2021-22 to 2025-26
28	Mineral(s) granted in lease and proved for mining	Hematite
29	Method of Mining (Opencast, Underground)	Opencast
30	Category (Fully Mechanized, Others or Manual)	Fully Mechanized
31	Captive/Non-Captive	Captive

**SCIENTIFIC MINING**

**[Data in respect of financial year (2021-22) or cumulative, as applicable]**

<b>Sl. No</b>	<b>Item</b>	<b>Proposals (2021-22)</b>	<b>Actual Work (2021-22)</b>	<b>Remarks</b>
<b>A. EXPLORATION:-</b>				
1a	Backlog of Previous Year	Nil	Nil	
1b	Exploration Over Lease area for Geological Axis 1 or 2	47 nos. of boreholes proposed in year 2021-22 to 2022-23:	Nil	Violation is pointed out under Rule 11(1) of MCDR, 2017.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not specified	Nil	
1d	Balance area to be explored to bring Geological axis 1 or 2	47 nos. of boreholes proposed in year 2021-22 to 2022-23:	Nil	
1e	Balance reserves as on 01/04/2022	Under (122):- 5.27 Million Tonne Under (222):- 0.86 Million Tonne		As per RMP approved dated 20.05.2021
1f	General remarks of inspecting officer on geology, exploration etc.	The exploration as proposed during the year 2021-22 and 2022-2023 has not been carried out so far. Violation is pointed out under Rule 11(1) of MCDR, 2017.		

<b>Sl. No</b>	<b>Item</b>	<b>Proposals</b>	<b>Actual Work</b>	<b>Remarks</b>
<b>B. DEVELOPMENT:-</b>				
2a	Location of development w.r.t. lease area	Development proposed in one pit (01) as shown in production and development plan  E-488898.5474- E-488963.1109  N-2242073.0000- N-2242471.7130	Development carried out within the proposed area	
2b	Separate benches in topsoil, overburden and mineral	Separate benches proposed in OB & mineral	Separate benches are maintained in OB & mineral	Mineral-06 m

2c	Stripping ratio or ore to OB ratio	1:0.057	1:0.000	No OB/Waste generation reported during the year
2d	Quantity of topsoil generation in m3	No proposal	Nil	
2e	Quantity of overburden generation in m3	17117 (Inter burden)	Nil	No OB/Waste generation reported during the year
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Production & development was carried out within the proposed grids as per the approved plans.		

Sl. No	Item	Proposals	Actual Work	Remarks
<b>C. EXPLOITATION:-</b>				
3a	Number of Pit Proposed for Production	01	01	Hill cutting
3b	Quantity of ROM mineral production proposed	299103 T	272400 T	
3c	Recovery of Saleable/ Usable Mineral from ROM Production	90 %	100 %	
3d	Quantity of mineral reject generation	No proposal	Nil	
3e	Grade of mineral reject generation and threshold value declared	No proposal	Nil	
3f	Quantity of sub-grade mineral generation	No proposal	Nil	
3g	Grade of sub-grade mineral generation	No proposal	Nil	
3h	Manual / Mechanized method adopted for segregating from ROM	Mechanized	Mechanized	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No proposal	No such study carried out	
3j	Provision of drilling & blasting in mineral benches	Drilling and Blasting proposed in mineral benches	Drilling and blasting is carried out in mineral benches as proposed	
3k	Provision of mining machineries in mineral benches	Yes, HEMMs	HEMMs deployed	
3l	Whether height of benches in overburden	Benches of 6 meter in limestone	Bench height and width have been maintained as	

	and mineral suitable for method of mining proposed in MP/SOM		per proposal	
3m	Total area covered under excavation/pits	16.63 Ha up to end of RMP period 2025-26	Excavation carried out within the proposed area	
3n	Ore to OB ratio for the pit/mine during the year	1:0.057	1:0.000	No OB/Waste generation reported during the year
3o	Total area put in use under different heads at the end of year	Total put to use-42.29 Ha. up to 2025-26	Area put to use is within the proposed area	
3p	Production of ROM mineral during last five-year period, as applicable	2017-18: 89400 2018-19: 94500 2019-20: 98280 2020-21: 105840 2021-22: 299103	2017-18: 0.00 2018-19: 79000 2019-20: 79300 2020-21: 94500 2021-22: 272400	(All units in Tonne) As per AR submitted and as mentioned in RMP approved dated 20.05.2021
3q	General remarks of inspecting officer on method of mining etc.	Open cast working being carried out by deployment of HEMM with the help of drilling & blasting.		

Sl. No	Item	Proposals	Actual Work	Remarks
<b>D. SOLID WASTE MANAGEMENT - DUMPING:-</b>				
4a	Separate Dumping of Topsoil, OB and Mineral Rejects (Rule 32,33)	Proposed	Mineral reject (fines) stacked separately	
4b	Location of Topsoil, OB and Mineral Rejects Dumps	N 2242166 to N 2242385 (Mineral Rejects)	Fines dump/stack of 05 m height was proposed at earmarked place between grid line 2242166 to 2242385	Violation issued in this regards
4c	Number of Dumps within Lease & Outside Lease area	03	02	Within lease area Mineral Reject (fines stack)
4d	Location of Dumps, within Ultimate Pit Limit (Rule-16)	Temporary Mineral Rejects/ Waste Dump	Temporary Mineral Rejects (Fines Stack)	
4e	Number of Active & Alive Dumps	03	02	
4f	No of Dead Dumps	-	Nil	
4g	No of Dumps Established	-	Nil	
4h	Whether Retaining Wall or Garland drain along Dumps are there	No proposal	Nil	
4i	Length of Retaining Wall or Garland drain along Dumps	Along fines dump /OB dump	Not carried out	Violation is pointed out under Rule 11(1) of MCDR, 2017.
4j	No. of Settling tanks	02	Nil	-do-

4k	Specific comments of inspecting officer on waste dump management	No any environmental protection measures (retaining wall, garland drain, sieved culvert, siltation tank etc.) observed constructed around the fines dump as envisaged in approved RMP. Violation has been pointed out under Rule 11(1) of MCDR, 2017 in this regards.
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Sl. No	Item	Proposals	Actual Work	Remarks
<b>E. SOLID WASTE MANAGEMENT - BACKFILLING:-</b>				
5a	Status of part or full extraction of mineral from mined out area before starting backfilling	No proposal	Nil	No any part of ML area is mined out fully to carry out backfilling
5b	Area under backfilling of mined out area	No proposal	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	No proposal	Not applicable	
5d	Total area fully reclaimed and rehabilitated	No proposal	Not applicable	
5e	General remarks of inspecting officer on backfilling, reclamation etc.	Mineral has not been exhausted fully & thus no proposal given for backfilling.		

Sl. No	Item	Proposals	Actual Work	Remarks
<b>F. PROGRESSIVE MINE CLOSURE PLAN:-</b>				
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 26(2).	To be submitted before 01st July every year	PMCP report has not been received in time	Violation of Rule 26 (2) of MCDR,2017 is issued
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	i) No proposal ii) No proposal iii) 2500 Nos. iv) - v) No proposal vi)-	i) Nil ii) Nil iii) 800 Nos. iv)- v) Nil vi)-	As reported during inspection, about 2000 nos. of plantations are carried out outside ML area in 2021-22.

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	Nil	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	No proposal	Nil	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Environmental monitoring of air, water & noise proposed	Environmental monitoring of air, water & noise was carried out as per the proposal	All values of environment monitoring are within permissible limits
6f	General remarks of inspecting officer on PMCP compliance & progressive closure operations	The annual return in respect of PMCP under Rule 26(2) was not submitted for which violation is issued.		

Sl. No	Item	Proposals	Actual Work	Remarks
<b>G. MINERAL CONSERVATION:-</b>				
7a	ROM mineral dispatch or grade wise sorting within lease area	Proposed for crushing and screening of blasted ROM	Mechanized crushing and screening has been carried out	
7b	Method of Grade-wise mineral sorting i.e. manual or mechanical	Mechanical	Mechanical	
7c	Different grade of mineral sorted out at mines	No proposal	Nil	
7d	Any beneficiation process at mines	No proposal	Nil	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	No beneficiation process proposed within lease area and the blasted ROM is being fed to the crushing and screening plant for segregation of different size.		

Sl. No	Item	Proposals	Actual Work	Remarks
<b>H. ENVIRONMENT:-</b>				
8a	Separate removal and utilization of topsoil	No proposal	Nil	
8b	Concurrent use or storage of topsoil	No proposal	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines	Separate dumps for overburden, waste rock, rejects is proposed	Separate dumps are maintained	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	Nil	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	Nil	
8f	Baseline information on existence of plantation & additional plantation done	Not specified	Within lease area-800 nos. saplings OML-2000 during 2021-22	As reported during inspection
8g	Survival rate	Not specified	52%	
8h	Water sprinkling on roads to control airborne dust	Proposal has been given for water sprinkling on roads through water tanker	Water sprinkling being done on haul roads to suppress the dust generated	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Aesthetic beauty in & around the mine area was good.		

Sl. No	Item	Comments		Remarks
<b>I. COMPLIANCE OF RULE-45:-</b>				
9a	Status of Submission of Monthly & Annual Returns	MR being regularly submitted AR Submitted up to 2021-22		
Sl. No	Item	Details Given in AR	Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager- Rakesh Mining Engg.- Rakesh Geologist- Onkar Sahu	Employed	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	3.42 Ha.	3.42 Ha. Approx.	Under pit
9d	Scrutiny of Annual	Within lease area:	Within lease area:	



	return on afforestation	800 @ 52% survival rate	800 @ 52% survival rate	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Nil	Nil	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Closing stock- Lumps-33342.89 Fines-143165.00	Closing stock- Lumps-33342.89 Fines-143165.00	All figures in Tonne
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex mine price- Lumps-1100/- Fines-1095/-	Ex mine price- Lumps-1100/- Fines-1095/-	
9i	Scrutiny of Annual return on fixed assets	Rs.126583577 including land, machinery & building	Rs.126583577 including land, machinery & building	
9k	Scrutiny of Annual return on mining machineries	Backhoe- 04 , Dumper-04, Wheel Loader-01, Drill Machine-02, Crusher-01	Deployed	

10. Details of violations observed during inspection: - Violation of Rule 11(1), 26(2), 31(4), 35(2), 45(5)( C) and 55 of MCDR 2017 are pointed out after current inspection.

Date: - .06.2023

प्रेम प्रकाश / Prem Prakash  
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