

MCDR INSPECTION REPORT 2022-23

General:

Sl .No.	Particulars	Details
1	Name of the Mine	Rajhara Mech. Mine
2	Date of Inspection:	21.09.2023
3	Name of Inspecting Officer	D. Upadhyay, Deputy Controller of Mines
4	Name of official accompanying inspection	Sri Rakesh Singh (Mine manger)
5	Last date of Inspection & Officer	11/112022, Shri D. Dash, RMG
6	Total Lease Area (Ha) with breakup of Non-forest and forest land	Total Lease- 220.42 Ha (Pandridalli and Rajhara Pahar Lease) Mine control Boundary 220.42 Ha. Under Forest- 100.76 Ha Non-forest- 119.66 Ha
7	Mine code	30MPR13005
8	IBM Registration Number under rule 45 of MCDR, 1988/2017	IBM/5662/2011
9	Name of the Lease, Address, Phone, email and fax number	PANDERDALLI RAJHARA PAHAR LEASE(PRPL) Ispat Bhawan, Lodhi Road, New Delhi -110003 director.rml.sail@gmail.com
10	Village	Pandridalli
11	Taluka/Mandal	Dondi
12	District	Balod
13	Pin code	491228
14	State	Chhattisgarh
15	Post Office	Dalli Rajhara
16	Nearest Police Station	Dalli Rajhara
17	Nearest Railway Station	Dalli Rajhara
18	Date of Grant of Mining Lease	01.06.1958
19	Date of Execution	05.03.1962
20	Weekly day of rest	Wednesday
21	Date of opening of Mine	31.12.1959
22	Date of First Renewal, if applicable and its period & expiry	01.06.1988 to 31.05.1998
23	Date of Second Renewal, if applicable and its period & expiry	01.06.1998 to 27.04.2003 28.04.2003 to 27.04.2023, further proposal
24	Date of submission of renewal application if Mining Operations are continuing under deemed extension	of extension of mining lease is under process with thestate Govt.
25	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	SHRI ANIRBAN DAS GUPTA Director in charge ,BSP Ispat Bhawan ,Bhilai

		director.bsp.sail@gmail.com Date of appointment- 28/09/2020
26	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	SHRI CHINTALA SRIKANT, Agent cum GM (Mines),IOC Add-Room no-53, Administrative Building, IOC, Rajhara Post- Dalli Rajhara, Dist- Balod, Pin- 491228(C.G) Ph-9407982915 Email- schintala@sail.in Date of appointment- 04/08/2020
27	Name of the Mine Manager with Address, phone, email, fax number and date of appointment in mines	SHRI RAKESH SINGH Add-Room no-51 , Administrative Building, IOC, Rajhara Post- Dalli Rajhara, Dist- Balod, Pin- 491228(C.G) Ph- 9407982855 Email- rakeshsingh1@sail.in Date of appointment- 18/10/2018
28	Name of the Mining Engineer, Qualification and total experience with address, phone, email, fax number and date of appointment in the mine	SHRI RAKESH SINGH Qualification-Degree In Mining Engineering, Experience- 15 yrs Add-Room no-51, Administrative Building, IOC, Rajhara Post- Dalli Rajhara, Dist- Balod, Pin- 491228(C.G) Ph- 9407983618 Email- rakeshsingh1@sail.in Date of appointment- 18/10/2018
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.RPR/BALOD/IRON ORE/ 1374/ RMP/ 2022-23 , Dt : 31/03/2023
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	HEMATITE (IRON ORE)
33	Method of Mining (Opencast, Underground)	OPENCAST
34	Category (Fully Mechanized, Others or Manual)	FULLY MECHANISED
35	Captive/Non-Captive	Captive
36	Present EC Status	ValidEC capacity 4.5 million T
37	Status of Financial Assurance	10.05 cr submitted upto the period 31.03.2028

Scientific Mining: Compliance of proposals of approved Mining Plan/Review of Mining Plan:

1.0 Exploration:

S.N.	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
1a	Backlog of previous year Proposals	Not proposed	Nil	Backlog of 49 no. of boreholes of total meterage of 6915 m drilled.
1b	Exploration over lease area for Geological axis 1 or 2.	Not proposed	Nil	Entire potentially mineralised area is explored under G1 Category
1c	Exploration Agency & Expenditure in Lakh Rupees during the year	Not proposed	Nil	Entire potentially mineralised area is explored under G1 Category
1d	Balance area to be explored to bring Geological axis in 1 or 2.	Not proposed	Nil	Entire potentially mineralised area is explored under G1 Category
1e	Balance reserves as on 01.04.2023	Balance reserves as on 01.04.2023: 18,947,486.00T		
1f	General remarks of Inspecting officer on geology, exploration etc.	Entire potentially mineralised area is explored under G1 Category		

2.0 Development:

S.N.	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
2a	Location of Development w.r.t. lease area	Co-ordinates E9855, N7690 E9950, N7350 E10660, N7450 E10710, N8050	Being done as per proposal	Development is carried out within approved proposal.
2b	Separate benches in topsoil overburden and mineral (Rule 15)	Separate benches in OB & Ore	Separate benches in OB & Ore are maintained	Separate benches in OB & Ore are maintained as per proposal.
2c	Stripping ratio or ore to OB ratio	1:2.0T/cu.m	1:1.32 T/cu.m	OB generated is less due to less ROM production
2d	Quantity of topsoil generation in m ³	Not proposed.	NIL	NIL
2e	Quantity of overburden	2916666	1508954	OB generated is

	generation in m ³			less due to less ROM production.
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.			

3.0 Exploitation:

S.N	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
3a	Number of pits proposed for production	01	01	01Pit
3b	Quantity of ROM mineral production proposed (000 Tonnes)	3.5 MT	1.665 MT	ROM production is consumed to its captive plant.
3c	Recovery of Salable/usable mineral from ROM production	3.5 MT	1.665 MT	Total ROM is usable to its Plant.
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	Mechanized	Mechanized	Mechanized
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Not proposed	NIL	NIL
3j	Provision of drilling & blasting in mineral benches	Drilling and blasting is proposed,	Drilling and blasting is carried out as per proposal.	Drilling and blasting is carried out as per proposal.
3k	Provision of mining machineries in mineral benches	Shovel and dumper combination	Shovel and dumper combination	Excavator, Loader and Dumper are equipped to winning out the mineral.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes	Bench height is suitably matched with the excavator.
3m	Total area covered under excavation /pits	121.09 Ha. during plan period.	113.0 Ha. at the end of year.	113.0 Ha. at the end of year.
3n	Ore to OB ratio for the pit/mine during the year	1:2.0T/cu.m	1:1.32 T/cu.m	OB generated is less due to less ROM production
3o	Total area put in use under different heads at the end of year	Pit- 121.09 ha, Waste dump- 46.18 Ha	Pit- 113.09 ha, Waste dump- 40.46 Ha	Total area put in use under different heads at the end of

		Infrastructure : 0.32 Ha Roads: 6.0 ha, Reclaim & Rehabilitated- 11.15 Ha	Infrastructure & 0 Roads: 4.45 ha, etc	year are as per proposal
3p	Production of ROM mineral during last five-years period, as Applicable (000 tonne)	2018-19 2.2MT 2019-20 2.2MT 2020-21 2.5MT 2021-22 2.5MT 2022-23 3.5MT	2018-19 1.46MT 2019-20 1.25MT 2020-21 1.33MT 2021-22 1.4MT 2022-23 1.66MT	ROM production is consumed to its captive plant.
3q	General remarks of inspecting officer on method of mining etc	The ROM production has been carried out from single pit as per proposal.		

4.0 Solid Waste Management-Dumping:

S.N.	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32,33)	Separate dumping of OB. No Top soil and Reject proposed.	Being done as per proposal	Being done as per proposal
4b	Location of topsoil, OB & mineral reject dumps	Dump-1: E9000-9400 & N7400-7600 Dump-2: E9400-9800 & N7200-7400 Dump-3: E10800-11200 & N7000-7800	Being done as per proposal	Being done as per proposal
4c	Number of Dumps within lease area and outside lease area	03 dump within lease area	03 dump within lease area	03 dump within lease area
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL	Outside UPL	Outside UPL
4e	Number of Active & Alive dumps	03 dump within lease area	03 dump within lease area	03 dump within 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	Yes	Yes	Retaining wall is made all along dump
4i	Length of Retaining wall or garland drain all along dump	Not Proposed.	Nil.	Retaining wall is made all along

				dump
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 as per proposal. Retaining wall is made all along dump		

5.0 Solid Waste Management-Backfilling:

S.N.	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Backfilling proposed.	Backfilling is being done after full extraction of mineral from mined out area	Backfilling is being done after full extraction of mineral from mined out area
5b	Area under backfilling of mined out area	A. 420*300*12 B. 380*160*12	A 275*180*8 B.200*120*8	Backfilling is being done after full extraction of mineral from mined out area
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Not proposed.	Nil	Backfilling is being done after full extraction of mineral from mined out area
5d	Total area fully reclaimed & rehabilitated	Backfilling proposed. A. 420*300*12 B. 380*160*12	Backfilling is being done after full extraction of mineral from mined out area	Backfilling is being done after full extraction of mineral from mined out area
5e	General remarks of inspecting officer on backfilling, reclamation etc	Backfilling is being done after full extraction of mineral from mined out area.		

6.0 Progressive Mine Closer Plan:

S. N.	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly-Rule 26 (2)	As per guideline	Annual report on PMCP Submitted on 30.6.23.	Annual report on PMCP Submitted on 30.6.23.
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	Not proposed	NIL	NIL
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	A.420*300*12 B.380*160*12 Waste 50 plants	A 250*150*8 B.150*100*8 100 Plants(0.004 Hect)	Backfilling is being done after full extraction of mineral from mined out area
6d	Compliance of Rehabilitation of waste land within lease i. Afforestation ii. Area rehabilitation (ha) iii. Method of rehabilitation	1000 nos. Within 2.50ha Plantation	1000 nos. Within 2.50ha Plantation	Waste land rehabilitated by 1000 nos of plantation.
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	Backfilling is being done after full extraction of mineral from mined out area		

7.0 Mineral Conservation:

S.N.	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
7a	ROM mineral dispatch or grade wise sorting within lease area	ROM mineral dispatched	ROM mineral dispatched	Rom Processed outside the lease area (in RHL Lease)
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanical	Mechanical	Mechanical
7c	Different grade of mineral sort out at mine	ROM mineral dispatched	ROM mineral dispatched	Rom Processed outside the lease area (in RHL Lease)
7d	Any beneficiation process at mines	Not proposed.	Nil	Rom Processed outside the lease area (in RHL Lease)

7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	ROM mineral dispatched to process outside the lease area
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8.0 Environment:

S.N.	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
8a	Separate removal and utilization of topsoil (Rule32)	Not proposed	NIL	Topsoil not proposed.
8b	Concurrent use or storage of topsoil	Not proposed	NIL	Topsoil not proposed.
8c	Separate dumps for overburden waste rock, rejects and fines (Rule 33)	Separate dumps for overburden	Being done as proposed in mine plan	Being done as proposed in mine plan
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Backfilling proposed	Backfilling is being done after full extraction of mineral from mined out area	Backfilling is being done after full extraction of mineral from mined out area
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Backfilling proposed	Backfilling is being done after full extraction of mineral from mined out area	Backfilling is being done after full extraction of mineral from mined out area
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	In 22-23, 1250 nos. of saplings	22-23 Within ML =1685nos. Cumulative 148513 nos.	22-23 Within ML =1685nos. Cumulative 148513 nos
8g	Survival rate	Nil	Survival rate = 85%(Within ML)	
8h	Water sprinkling on roads to control airborne dust	Water tanker	Water tanker deployed to control airborne dust	Water tanker deployed to control airborne dust
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
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9a	Status of submission of monthly and Annual returns	MR submitted regularly AR submitted for the year 2022-23 has been submitted within prescribed date.	AR submitted for the year 2022-23 has been submitted within prescribed date.	
S N	Item	Details Given in A.R.	Observation of I/Officer	
9 b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Shri Rakesh Singh (Manager) Shri Rakesh Singh (MiningEngineer) Shri Sanjay Srivastava	Information on Mining Engineer, Geologist and Manager furnished in AR.	Information on Mining Engineer, Geologist and Manager furnished in AR.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Coverd under Pit - 113.00ha Reclaimed – rehabilitated - 22.310ha Used for Waste disposal - 40.460ha Occupied by plant, Buildings, residential roads etc. - 4.450ha	Land use pattern for area under pits, reclaimed area, dumps etc. furnished in AR.	Land use pattern for area under pits, reclaimed area, dumps etc. furnished in AR.
9 d	Scrutiny of Annual return on afforestation	Number of tree planted within ML – 1685	Number of tree planted within ML – 1685	Number of tree planted within ML – 1685
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 ROM stock - 22154.031T	Closing ROM stock - 22154.031T	Closing ROM stock - 22154.031T
9 g	Scrutiny of Annual return on sale value, Ex. Mine price & production costs	Ex Mine Price – Rs 1815.55 Production costs- Rs 1815.55	Ex Mine Price – Rs 1815.55	Ex Mine Price – Rs 1815.55
9i	Scrutiny of Annual return on Fixed assets	Fixed assets:Rs 383273773	Fixed assets:Rs 383273773	Fixed assets:Rs 383273773
9 k	Scrutiny of Annual return on mining Machineries	Machineries furnished in AR.	Machineries furnished in AR.	Machineries furnished in AR.

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

No Violation of serious nature is observed during the inspection.

Date: 06/03/2024

Signature:
Name: D. Upadhyay