

MCDR INSPECTION REPORT 2021-22

General:

S.No	Particulars	Details
1	Name of the Mine	Rowghat iron ore Mine
2	Date of Inspection:	15-07-2022
3	Name of Inspecting Officer	Dayanand Upadhyay, Senior Assistant Controller of Mines
4	Name of official accompanying inspection	SHRI JAY PRAKASH, Mines Manager
5	Last date of Inspection & Officer	01-11-2018, Shri R.K.Das, Sr. ACOM
6	Total Lease Area (Ha) with breakup of Non-forest and forest land	2028.797ha. Reserve Forest
7	Mine code	30CHG17001
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	Rowghat iron ore Mine, M / s Steel Authority of India Limited, Bhilai Steel Plant, Bhilai, Dist- Durg (Chhattisgarh)-490001 Phone no.-07882862001 director@bsp@sail.in, swarup.samir@sail.in
10	Village	Tarhur, anjrel, Korgaon, Kharkagaon, Takrel
11	Taluka/Mandal	Antagarh & narayanpur
12	District	Kanker & narayanpur
13	Pin code	494661
14	State	Chhattisgarh
15	Post Office	Rowghat
16	Nearest Police Station	Rowghat
17	Nearest Railway Station	Kewati
18	Date of Grant of Mining Lease	04.01.2007
19	Date of Execution	21.10:2009
20	Weekly day of rest	Sunday
21	Date of opening of Mine	01-12-2020
22	Date of First Renewal, if applicable and its period & expiry	NA
23	Date of Second Renewal, if applicable and its period & expiry	NA
24	Date of submission of renewal application if Mining Operations are continuing under deemed extension	NA
25	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	ShriAnirban Dasgupta , (Director I/C) Ispat Bhavan, Bhilai Chhatisgarh- 490001 Contact Nos: 0788-2200999 Email : anirbandasgupta @sail.in

		Date of appointment-30.09.2020
26	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	SHRISAMIR SWARUP, MHQ, Ispat bhawan, Bhilai Phone- 07882861 168, Email-swarup.samir@sail.in Date of appointment-21.04.2020
27	Name of the Mine Manager with Address, phone, email, fax number and date of appointment in mines	SHRI JAY PRAKASH MHQ, Ispat Bhawan, Bhilai Phone- 9407983618, Email- jayprakash@sail.in Date of appointment- 17.08.2020
28	Name of the Mining Engineer, Qualification and total experience with address, phone, email, fax number and date of appointment in the mine	SHRI KAUSHAL KISHOR GUPTA Qualification- graduate in mining, FMR Total experience- 10 years R. No.-586, ispat bhawan, bhilai Phone-9407983343 Email- kaushalkgupta@sail.in Date of appointment -25.08.2021
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.	06.12.2018
31	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five- year period and specific condition in approval letter, if any.	Plan period -2019 -20 to 2023 -24
32	Mineral(s) granted in lease and approved for Mining	Iron ore
33	Method of Mining (Opencast, Underground)	Opencast
34	Category (Fully Mechanized, Others or Manual)	Fully Mechanized
35	Captive/Non-Captive	Captive
36	Present EC Status	14.0 Million tonne per annum
37	Status of Financial Assurance	Rs 55,055,000.00 VALID UPTO 31.03.2025

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

1.0 Exploration:

S.N.	Item	Proposals (2021-22)	Actual Work (2021-22)	Remarks
1a	Backlog of previous year Proposals	244 no. of bore holes of total meterage 9360m, during approved plan period.	Nil	Violation of rule 11(1) has been pointed out for non-compliance of proposed bore holes.
1b	Exploration over lease area for Geological axis 1 or 2.	G1 level	Nil	--do--
1c	Exploration Agency & Expenditure in Lakh Rupees during the year	Not specified	Nil	--do--
1d	Balance area to be explored to bring Geological axis in 1 or 2.	Not specified	Nil	--do--
1e	Balance reserves as on 01.04.2021	Reserves 254 Million tonnes and resources 256.45 Million tonnes		
1f	General remarks of Inspecting officer on geology, exploration etc.	The proposed 244 no. of bore holes of total meterage 9360m have not been drilled by lessee. Violation of rule 11(1) has been pointed out for non-compliance of proposed bore holes.		

2.0 Development:

S.N.	Item	Proposals (2021-22)	Actual Work (2021-22)	Remarks
2a	Location of Development w.r.t. lease area	Anjrel block and Block-A	Development is not carried out	Development is as per proposal.
2b	Separate benches in topsoil overburden and mineral (Rule 15)	Separate benches in Ore & OB. No top soil proposal	Development is not carried out	Development is not carried out
2c	Stripping ratio or ore to OB ratio	1:0.25T/Cu.m	Nil	Development is not carried out.
2d	Quantity of topsoil generation in m ³	Not proposed	Nil	Nil
2e	Quantity of overburden generation in m ³	730000cu.m	Nil	Development is not carried out.
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	Proposed Development is not carried out due to law and order problem. However violation is pointed out to lessee in this regard.		

3.0 Exploitation:

S.N.	Item	Proposals (2021-22)	Actual Work (2021-22)	Remarks
3a	Number of pits proposed for production	02 pit	Proposed pits are not developed.	Proposed pits are not developed due

				to law and order problem. A small quantity of production is carried out during scraping and dozing of surface preparation. However violation is pointed out to lessee in this regard.
3b	Quantity of ROM mineral production proposed	3.0Million tonnes	128.81T	--do--
3c	Recovery of Salable/usable mineral from ROM production	3.0Million tonnes	128.81T	--do--
3d	Quantity of mineral reject generation	Not proposed	Nil	
3e	Grade of mineral reject generation and threshold value declared	Not proposed	Nil	
3f	Quantity of sub-grade mineral generation	Block-A-0.698 MT	Nil	
3g	Grade of sub-grade mineral generation	4s-55Fe%	Nil	
3h	Manual/Mechanized method adopted for segregation from ROM	Mechanized	Mechanized	--do--
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Not proposed	Nil	
3j	Provision of drilling & blasting in mineral benches	Deep Drilling and blasting is proposed,	Nil	--do--
3k	Provision of mining machineries in mineral benches	Shovel and dumper combination	Shovel and dumper combination	--do--
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes (Bench height 10m)	Proposed pits are not developed.	--do--
3m	Total area covered under excavation /pits	81.92 ha during plan period	20.36ha area prepared after removing of trees for mining.	20.36ha area prepared after removing of trees for mining.
3n	Ore to OB ratio for the pit/mine during the year	1:0.25T/Cu.m	Nil	OB not generated.
3o	Total area put in use under different heads at the end of year	110.11 ha during plan period	20.36ha area prepared after removing of trees for mining & allied activity.	20.36ha area prepared after removing of trees for mining & allied activity.

3p	Production of ROM mineral during last five-years period, as Applicable (tonne)	2019-20: 1MT 2020-21: 2MT 2021-22: 3MT	2019-20:Nil 2020-21: 186.395T 2021-22: 128.81T	Opening of mines from 01/12/2020
3q	General remarks of inspecting officer on method of mining etc	Proposed pits are not developed due to law and order problem. A small quantity of production is carried out during scraping and dozing of surface preparation. However violation is pointed out to lessee in this regard.		

4.0 Solid Waste Management-Dumping:

S.N.	Item	Proposals (2021-22)	Actual Work (2021-22)	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32,33)	Separate dumping of OB/waste & Mineral reject.	Nil	OB/waste & Mineral reject not generated.
4b	Location of topsoil, OB & mineral reject dumps	Topsoil not proposed. Dump-A, Near Block-A. Dump-B, Near to Tarhur block	Nil	OB/waste & Mineral reject not generated.
4c	Number of Dumps within lease area and outside lease area	02 dumps Within lease area	Nil	OB/waste & Mineral reject dump not created.
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL	Nil	OB/waste & Mineral reject dump not created.
4e	Number of Active & Alive dumps	02 waste dump	Nil	OB/waste & Mineral reject dump not created.
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	Nil	OB/waste & Mineral reject dump not created.
4i	Length of Retaining wall or garland drain all along dump	1.4Km Retaining wall	Nil	OB/waste & Mineral reject dump not created.
4j	Number of settling ponds	Not proposed	Nil	Nil
4k	Specific comments of inspecting officer on waste dump management	OB/waste & Mineral reject dump not created as the proposed developments works are not carried out due to law and order problem.		

5.0 Solid Waste Management-Backfilling:

S.N.	Item	Proposals (2021-22)	Actual Work (2021-22)	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Not proposed	Nil	Nil

5b	Area under backfilling of mined out area	Not proposed	Nil	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Not proposed	Nil	Nil
5d	Total area fully reclaimed & rehabilitated	Not proposed	Nil	Nil
5e	General remarks of inspecting officer on backfilling, reclamation etc	Area is not matured for reclamation and rehabilitation.		

6.0 Progressive Mine Closer Plan:

S. N.	Item	Proposals (2021-22)	Actual Work (2021-22)	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly-Rule 26 (2)	As per provision of MCDR 2017.	Annual report on PMCP submitted.	Annual report on PMCP submitted.
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.	Area is not matured for reclamation and rehabilitation.	Area is not matured for reclamation and rehabilitation.
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	Not proposed.	Area is not matured for reclamation and rehabilitation.	Area is not matured for reclamation and rehabilitation.
6d	Compliance of Rehabilitation of waste land within lease i. Afforestation ii. Area rehabilitation (ha) iii. Method of rehabilitation	Not proposed.	Nil	Nil
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	Area is not matured for reclamation and rehabilitation.		

7.0 Mineral Conservation:

S.N.	Item	Proposals (2021-22)	Actual Work (2021-22)	Remarks
7a	ROM mineral dispatch or grade wise	Grade wise	Grade wise	Grade wise sorting

	sorting within lease area	sorting	sorting	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanical	Mechanical	Mechanical
7c	Different grade of mineral sort out at mine	+45% Fe	+45% Fe	+45% Fe
7d	Any beneficiation process at mines	Not proposed	Nil	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Sorted out 128.81T iron ore of +65%Fe dispatched to its captive plant during 2021-22.		

8.0 Environment:

S.N.	Item	Proposals (2021-22)	Actual Work (2021-22)	Remarks
8a	Separate removal and utilization of topsoil (Rule32)	Not proposed.	Nil	Nil
8b	Concurrent use or storage of topsoil	Not proposed.	Nil	Nil
8c	Separate dumps for overburden waste rock, rejects and fines (Rule 33)	Separate dumping of rejects & OB/waste.	Nil	OB/waste & Mineral reject dump not created.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not proposed	Nil	Area is not matured for reclamation and rehabilitation.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not proposed	Nil	Area is not matured for reclamation and rehabilitation.
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Plantation not proposed	Nil	Nil
8g	Survival rate	Plantation not proposed	Nil	Nil
8h	Water sprinkling on roads to control airborne dust	Water tanker	Water tanker used to control airborne dust	Water tanker used to control airborne dust
8i	General remarks of inspecting officer on aesthetic beauty in and around mine area	Area is not matured for reclamation and rehabilitation. OB/waste & Mineral reject dump not created as the proposed developments works are not carried out due to law and order problem.		

9.0 Compliance of Rule 45:

S	Item	Comments	Remarks
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N				
9a	Status of submission of monthly and Annual returns	AR & MR submitted regularly.		AR & MR submitted regularly.
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	Mining engineer, geologist employment is furnished	Mining engineer, geologist are employed in the mine.	Mining engineer, geologist are employed in the mine.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit-20.36 ha,	Found in order.	Found in order.
9 d	Scrutiny of Annual return on afforestation	Nil	Nil	Nil
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 stock: Nil	Closing stock:	Closing stock:
9 g	Scrutiny of Annual return on sale value, Ex. Mine price & production costs	Ex mine price +65% Fe-Rs 1214.85/-	Ex mine price +65% Fe-Rs 1214.85/-	Ex mine price +65% Fe-Rs 1214.85/-
9i	Scrutiny of Annual return on Fixed assets	Fixed assets Rs 4727264755/-	Fixed assets Rs 4727264755/-	Fixed assets Rs 4727264755/-
9 k	Scrutiny of Annual return on mining Machineries	Back hoe1.6cum.- 3, Tipper 14cu.m- 3, Dozer-1	Back hoe1.6cum.- 3, Tipper 14cu.m- 3, Dozer-1	Back hoe1.6cum.-3, Tipper 14cu.m- 3, Dozer-1

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

During inspection violation of rule 37(6) of MCDR2017 was pointed out.

Date: 05/08/2022

Signature:
Name: (D. UPADHYAY)
Designation: Sr. ACOM