

MCDR INSPECTION REPORT 2022-23

General:

Sl .No.	Particulars	Details
1	Name of the Mine	Rowghat Iron ore Mine
2	Date of Inspection:	08.11.2023
3	Name of Inspecting Officer	Shri D. Dash, Regional Mining Geologist
4	Name of official accompanying inspection	1. SHRI JAY PRAKASH, G.M.(Mines) 2. SHRI K. K. GUPTA, Manager (Mines) 3. SHRI M. DUBEY, Geologist 4. SHRI A. BARSA
5	Last date of Inspection & Officer	15.07.2022 Shri D. UPADHYAY, Sr. Asst. Controller of Mines
6	Total Lease Area (Ha) with breakup of Non-forest and forest land	2028.797
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, DEPOSIT –F
10	Village	Tarhur, anjrel, Korgaon, Kharkagaon, Takrel
11	Taluka/Mandal	Antagarh& Narayanpur
12	District	Kanker& Narayanpur
13	Pin code	494661
14	State	Chhatisgarh
15	Post Office	Rowghat
16	Nearest Police Station	Rowghat & Bherenda
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	05.02.2021
22	Date of First Renewal, if applicable and its period & expiry	N/A
23	Date of Second Renewal, if applicable and its period & expiry	N/A
24	Date of submission of renewal application if Mining Operations are continuing under deemed extension	N/A
25	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri Anirban Dasgupta , (Director I/C), Ispat Bhawan, 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,	SHRI JAY PRAKASH, MHQ, Ispat Bhawan,

	email, fax number and date of appointment	Bhilai, Phone- 9407983618, Email- jayprakash@sail.in Date of appointment- 11.05.2023
27	Name of the Mine Manager with Address, phone, email, fax number and date of appointment in mines	SHRI KAUSHAL KISHOR GUPTA MHQ, Ispat Bhawan, Bhilai, Phone- 9407983343, Email- kaushalkgupta@sail.in Date of appointment- 11.05.2023
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 MHQ, Ispat Bhawan, Bhilai, Phone- 9407983343,Email- kaushalkgupta@sail.in
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.	Mining Plan approved vide letter no. 314(3)/2006-MCCM(CZ)/MP-27 dated 22.03.2007.
31	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. Narayanpur/Iron/Sl. 1179/2018 dated 06.12.2018 for the period from 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	30 years wef 04.06.2009
37	Status of Financial Assurance	Valid upto 31.03.2024

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	2019-20 : Boreholes- 46, Pits- 23 2020-21: Boreholes: 104, pits: 104 2021-22: Boreholes: 117, Pits: 117	2020-21: 10 boreholes 2021-22: 10 holes, 830 m	The proposed exploration could not be carried out due to law & order situation arising out of Naxalite activities. Further, the Review of Mining Plan for the period from 2024-25 onwards is approved in which revised exploration proposal have been furnished. Therefore, Violation of 11 (1) of MCDR, 2017 is not pointed out.

1b	Exploration over lease area for Geological axis 1 or 2.	328.76 Ha	nil	
1c	Exploration Agency & Expenditure in Lakh Rupees during the year	-	-	
1d	Balance area to be explored to bring Geological axis in 1 or 2.	1700.031 Ha	70.36 Ha	
1e	Balance reserves as on 01.04.2023	510948267.00 T		
1f	General remarks of Inspecting officer on geology, exploration etc.	Exploration inform of 244 boreholes with total meterage of 9360 m and 244 pits have been proposed during the period from 2019-20 to 2021-22 in the approved Review of Mining Plan. Against the proposals, only 20 boreholes have been drilled during the period from 2020-21 to 2021-22. The proposed exploration could not be carried out due to law & order situation arising out of Naxalite activities. Further, the Review of Mining Plan for the period from 2024-25 onwards is approved in which revised exploration proposal have been furnished. Therefore, Violation of 11 (1) of MCDR, 2017 is not pointed out.		

2.0 Development:

S.N	Item	Proposals (2022-23)			Actual Work (2022-23)			Remarks		
2a	Location of Development w.r.t. lease area	Block' A'	81°11'7 5"- 81°12'0 5"	19°50'28" - 19°50'37"	Block' A'	nil			Quarry development were proposed during the year 2022-23, in block A, Tarhur and Anjrel. However, mining activity is restricted to only Anjrel block due to lack of forest clearance and law & order concern.	
			81°11'1 4"- 81°11'1 7"	19°50'06" - 19°50'14"						
		Tarhur	81°10'4 6"- 81°11'0 8"	19°49'40" - 19°49'55"	Tarhur	nil				
		Anjrel	81°10'2 3"- 81°10'2 7" 81°10'0 2"- 81°10'1 5"	19°49'06" - 19°49'09" 19°48'47" - 19°49'04"	Anjrel	81°09'59"- 81°10'07"	19°48'57"- 19°48'33"	81°09'55"- 81°10'10"		19°48'39"- 19°48'52"
2b	Separate benches in topsoil overburden and mineral (Rule 15)		To p soi l	O B	Mineral		Top soil	OB	Mineral	
		Block-A	0	1	3	Block-A	0	0	0	
		Tarhur	0	0	1	Tarhur	0	0	0	
		Anjrel	0	0	2	Anjrel	0	0	2	
2c	Stripping ratio or ore to OB ratio	1:0.61			1:0.40			OB handling is slightly on lower side.		
2d	Quantity of topsoil generation in m ³	nil			nil					
2e	Quantity of overburden	1060000			12016			Quantity on lower side due		

	generation in m ³			to limited mining activity
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	Quarry development were proposed during the year 2022-23, in block A, Tarhur and Anjrel. However, mining activity is restricted to only Anjrel block due to lack of lack of forest clearance and law & order concern.		

3.0 Exploitation:

S.N	Item	Proposals (2022-23)			Actual Work (2022-23)	Remarks
3a	Number of pits proposed for production	3			1	Quarry development were proposed during the year 2022-23, in block A, Tarhur and Anjrel. However, mining activity is restricted to only Anjrel block due to lack of lack of forest clearance and law & order concern.
3b	Quantity of ROM mineral production proposed	5 Million Tonnes			94733 T	
3c	Recovery of Salable/usable mineral from ROM production	100%			100%	
3d	Quantity of mineral reject generation	nil			nil	
3e	Grade of mineral reject generation and threshold value declared	nil			nil	
3f	Quantity of sub-grade mineral generation	nil			nil	
3g	Grade of sub-grade mineral generation	45-55%			nil	
3h	Manual/Mechanized method adopted for segregation from ROM	mechanised			mechanised	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	nil			nil	
3j	Provision of drilling & blasting in mineral benches	Under proposal			nil	
3k	Provision of mining machineries in mineral benches		Block-A	anjrel 1	Anjrel-	As per proposal.
		Excavator	10m ³ -2 2.5 m ³ -3	2.5m ³ -2 0.9 m ³ -1	2.5m ³ -3 0.9m ³ -2	
		dumper	120T-5 50T-6	25T-5 16T-1	25T- 3	
3l	Whether height of benches in	10m			10m (Yes)	

	overburden and mineral suitable for method of mining proposed in MP/SOM				
3m	Total area covered under excavation /pits	Block-A -81455 m ² Anjrel- 62669 m ²	Block-A- nil Anjrel- 203600 m ²		
3n	Ore to OB ratio for the pit/mine during the year	1:0.61	1:0.12		
3o	Total area put in use under different heads at the end of year	110.11 Ha	29.02 Ha		
3p	Production of ROM mineral during last five-years period, as Applicable (tonne)	18-19	8MillionT	Nil	Production over the years is on lower side due to lack of forest clearance & security threat.
		19-20	1Million T	Nil	
		20-21	2Million T	186.395 T	
		21-22	3Million T	128.810 T	
		22-23	5Milion T	94733 T	
3q	General remarks of inspecting officer on method of mining etc	During the year 2022-23, 03 quarries were proposed in block A, Tarhur and Anjrel blocks, against which a quarry has been developed at Anjrel block due to lack of forest clearance and security threat.			

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)	yes				Done as proposed.	
4b	Location of topsoil, OB & mineral reject dumps	OB Dump-A	OB Dump-B	Hilltop crushing & ROM Stockpile-1	Hilltop crushing & ROM Stockpile-2	Hilltop crushing & ROM Stockpile-2	Violation of Rule 11(1) of MCDR, 2017 has been pointed
		81°11'38.414" 19°51'0.803"	81°10'51.015" 19°50'4.167"	81°11'01.224" 19°50'30.175"	81°09'56.367" 19°48'45.682"	81°09'56.367" 19°48'45.682"	
		81°11'16.05" 19°50'50.107"	81°10'32.055" 19°50'0.76"	81°10'56.606" 19°50'19.72"	81°09'49.76" 19°48'51.488"	81°09'49.76" 19°48'51.488"	

		81°11'09.73" 19°50'35.28"	81°10'25.006" 19°49'40.103"	81°10'49.55" 19°50'18.994"	81°09'44.17" 19°48'47.356"	81°09'44.17" 19°48'47.356"	out since waste dumping was proposed in block A and Tarhur block & no waste dumping was proposed in Anjrel block.
4c	Number of Dumps within lease area and outside lease area	Within lease-2 Outside lease-0				Within lease-1	-do-
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	N/A				N/A	
4e	Number of Active & Alive dumps	Proposed-2				Temporary dump 01	
4f	Number of dead dumps	nil				nil	
4g	Number of dumps established	2				nil	
4h	Whether Retaining wall or garland drain all along dumps are there	Not specific.				Nil	
4i	Length of Retaining wall or garland drain all along dump	proposed				nil	
4j	Number of settling ponds	Not proposed				nil	

4k	Specific commends of inspecting officer on waste dump management	Waste dumping was proposed in block A and Tarhur blocks and no waste dumping was proposed in Anjrel block. However, a temporary waste dump has been developed south west of quarry against no such proposal. However, in the approved Review of Mining Plan for the period from 2024-25 onwards, rehandling of the waste dump has been proposed. Therefore, Violation of Rule 11(1) of MCDR, 2017 is not pointed out for location deviation of waste 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	Nil	Nil	Not applicable
5b	Area under backfilling of mined out area	Nil	Nil	Not applicable
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Nil	Nil	Not applicable
5d	Total area fully reclaimed & rehabilitated	Nil	Nil	Not applicable
5e	General remarks of inspecting officer on backfilling, reclamation etc	The mining operations in the lease area is on very initial stage and no area is mined out and there is no proposal of backfilling during the period.		

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)	yes	yes	
6b	Management of worked/mined out benches	Nil	nil	No area is mined out.
	Area available for rehabilitation (Ha)	nil	nil	-do-
	Afforestation done (ha)	nil	nil	
	No. of saplings planted during the year	nil	nil	
	Cumulative no. of plants	nil	nil	
	Any other specific method of rehabilitation	no	no	
	Cost incurred on watch & care during the year	nil	nil	
6c	Compliance on reclamation and rehabilitation by backfilling Voids available for backfilling (L*B*D) Void filled by waste/tailings	nil	nil	

	Afforestation on the backfilling Rehabilitation by making water reservoir Any other specific means			
6d	Compliance of Rehabilitation of waste land within lease i. Afforestation ii. Area rehabilitation (ha) iii. Method of rehabilitation	nil	nil	
6e	Compliance of Environment monitoring (core zone & buffer zone)	yes	Complied	
6f	General remarks of inspecting officer on PMCP compliance & progressive closer operations	Mining operations within the lease area is at very initial stage. No area is mined out. In the approved Mining Plan, there is no proposal for reclamation/ rehabilitation of mined out pit.		

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	5Million T	94733 T	Mining operations are restricted to Anjrel block due to lack of forest clearance and security threat, Therefore, the production is on lower side.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	mechanised	mechanised	As proposed.
7c	Different grade of mineral sort out at mine	BF Grade- +10 to -40 mm SF Grade- -10mm	BF Grade +10 to -40 mm SF Grade- -10mm	
7d	Any beneficiation process at mines	no	no	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Mining operations are restricted to Anjrel block due to lack of forest clearance and security threat, Therefore, the production is on lower side.		

8.0 Environment:

S.N.	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
8a	Separate removal and utilization of topsoil (Rule32)	Nil	Nil	
8b	Concurrent use or storage of topsoil	nil	Nil	
8c	Separate dumps for overburden waste rock, rejects and fines (Rule 33)	Yes proposed	nil	Land not handed over

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	nil	nil	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	nil	nil	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	nil	nil	
8g	Survival rate	nil	nil	
8h	Water sprinkling on roads to control airborne dust	Yes by water sprinkler	yes	
8i	General remarks of inspecting officer on aesthetic beauty in and around mine area	No top soil generation is proposed nor generated during the process of mining.		

9.0 Compliance of Rule 45:

S N	Item	Comments		Remarks
9a	Status of submission of monthly and Annual returns	MR submitted up to oct'23 AR submitted up to 2022-23		Submitted on time
S N	Item	Details Given in A.R.	Observation of I/Officer	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer: Shri Kaushal Kumar Gupta Geologist: Shri Manish Kumar Dubey Mines Manager : Shri Kaushal Kumar Gupta	Officers were present during the inspection of the mine.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under current (O-C) Workings: 20.36 ha Occupied by plant, buildings, residential, welfare buildings and roads: 8.66 ha	Appears to be correct.	
9d	Scrutiny of Annual return on afforestation	Nil		
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	Nil		
9f	Scrutiny of Annual return on ROM stock and/or grade ore	Closing stock: 25823 tonnes	Stacked near the crusher..	
9g	Scrutiny of Annual return on sale value, Ex. Mine price &	Cost production: Rs 3044		

	production costs			
9i	Scrutiny of Annual return on Fixed assets	Rs 4592393803	Appears to be correct.	
9k	Scrutiny of Annual return on mining Machinerics	Dozer: 01, Tipper: 17, Backhoe: 03, Water tanker: 03, Tipper: 03, Wheel loader: 02	Found in operations.	

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

During the previous inspection of the mine by Shri Dayanad Upadhaya, Sr.ACOM of this office, violation of Rule 11(1) of MCDR, 2017 is pointed out for non-compliance of exploration and production proposals. In the approved Review of Mining Plan for the period from 2024-25 onwards, revised exploration proposals have been furnished.

During the current inspection, no serious violations is pointed out.

Date:

Signature:

Name: (Debadurllav Dash)

Designation: Regional Mining Geologist