

MCDR INSPECTION REPORT 2023-24

General:

S.No	Particulars	Details
1	Name of the Mine	Aridongri Iron Ore Mine of M/s Chhattisgarh Mineral Development Corporation Limited
2	Date of Inspection:	25.01.2025
3	Name of Inspecting Officer	Mr. Sanjay Kumar Mahapatra, Assistant Controller of Mine, Indian Bureau of Mine Raipur
4	Name of official accompanying inspection	Mr. Deepak Kumar Gupta, Mine Manager
5	Last date of Inspection & Officer	28.06.2023, Shri D. Dash RMG
6	Total Lease Area (Ha) with breakup of Non-forest and forest land	166.8 ha. Reserve Forest Land
7	Mine code	30CHG08010
8	IBM Registration Number under rule 45 of MCDR, 1988/2017	IBM/8239/2011
9	Name of the Lease, Address, Phone, email and fax number	Aridongri Iron Ore Mine Village Kachche Teh – Bhanupratappur , Dist- Uttar Bastar Kanker C.G. email- cmdcbhanupratappur@gmail.com
10	Village	Kachche
11	Taluka/Mandal	Bhanupratappur
12	District	Uttar Bastar Kanker
13	Pin code	494669
14	State	Chhattisgarh
15	Post Office	Bahnupratappur
16	Nearest Police Station	Kachche
17	Nearest Railway Station	Bhanupratappur
18	Date of Grant of Mining Lease	23.08.2018 under 10A(2)(b) of MMDR Act.
19	Date of Execution	01.09.2018
20	Weekly day of rest	Sunday
21	Date of opening of Mine	31.05.2020
22	Date of First Renewal, if applicable and its period & expiry	Not applicable. Lease period is 01.09.2018 to 31.08.2068
23	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Mr. Sunil Kumar Jain Sector 24 Atal Nagar Nawa Raipur Chhattisgarh , Date of Appointment- 30-01-2024, Mob- 94241-80751 Email Id-cmdcraipur@gmail.com
24	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Mr. Sushil Kumar Chandrakar Sector 24 Atal Nagar Nawa Raipur Chhattisgarh, Date of Appointment- 19-03-2019, Mob- 79743-35022 Email Id-cmdcraipur@gmail.com
25	Name of the Mine Manager with Address,	Mr. Deepak Kumar Gupta Regional Office

	phone, email, fax number and date of appointment in mines	Bhanupratappur, Date of Appointment-19-03-2019, Mob- 70241-39741 Email Id-cmdcbhanupratappur@gmail.com
26	Name of the Mining Engineer, Qualification and total experience with address, phone, email, fax number and date of appointment in the mine	Mr. Parth Basu Second Class Mine Manager Certificate Holder 15 year experience, Date of Appointment- 18-05-2021, Mob-70002-57995 Email Id-cmdcraipur@gmail.com
27	Whether Geologist and Mining Engineer appointment in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Yes
28	Date of Approval of Mine Plan / Modified Mine Plan with five- year period and specific condition in approval letter, if any.	Fresh Mining plan is approved vide letter no kanker/Lauh/khayo-167/Nag/33-Raipur/148 Dated 12.07.2016 for the period from 01.09.2018 to 31.03.2023
29	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 Under Rule 17(2) Of MCR 2016 vide letter No. RPR / KANKER / IRON / 1351 / RMP / 2022-23, Date 28/06/2023 for the period from 2023-24 to 2027-28
30	Mineral(s) granted in lease and approved for Mining	Iron ore (Magnetite)
31	Method of Mining (Opencast, Underground)	Opencast
32	Category (Fully Mechanized, Others or Manual)	Fully Mechanized
33	Captive/Non-Captive	Non-Captive
34	Present EC Status	5 lakh metric tonne per annum
35	Status of Financial Assurance	Financial Assurance is paid in terms of Performance security of an amount equal to INR 10, 43, 09,862.00 as per MDPA submitted to the State Government.

1.0 Exploration:

S.N	Item	Proposals (2023-24)	Actual Work (2023-24)	Remarks
1a	Backlog of previous year Proposals	Nil	Nil	There is no backlog. Total 33 nos. of boreholes have been drilled during the year 2020-21 & 2021-22
1b	Exploration over lease area for Geological axis 1 or 2.	Nil	Nil	-
1c	Exploration Agency & Expenditure in Lakh Rupees during the year	Nil	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2.	Not Proposed	Nil	

1e	Balance reserves as on 01.04.2024	Reserve – 1.384 Million Tonne , Resource – 83.524 Million Tonne as on 31.03.2024.	Reserve – 1.384 Million Tonne , Resource – 83.524 Million Tonne as on 31.03.2024.
1f	General remarks of Inspecting officer on geology, exploration etc.	Reserve – 1.384 Million Tonne , Resource – 83.524 Million Tonne as on 31.03.2024. Total Reserve+ Resource = 84.908 Million Tonne.. The mine was non working during inspection. Temporary discontinued from 09.11.2022. Notice of Temporary discontinuation submitted to IBM .	

2.0 Development:

S.N	Item	Proposals (2023-24)	Actual Work (2023-24)	Remarks
2a	Location of Development w.r.t.lease area	E506700-506900 & N 225000-2255600	Nil	
2b	Separate benches in topsoil overburden and mineral (Rule 15)	Separate benches in Mineral & OB	Nil	Mine is temporarily stopped from dated 09.11.2022 & again on 29.03.2024 due to local problem. Notice of temporary discontinuance submitted.
2c	Stripping ratio or ore to OB ratio	01: 0.69 (t:cum)	Nil	
2d	Quantity of topsoil generation in m ³	4215.00 cu.m	Nil	
2e	Quantity of overburden generation in m ³	340000.00cu.m	Nil	
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	The mine was non-working during inspection. Temporary discontinued from 09.11.2022. Notice of Temporary discontinuation submitted to IBM .		

3.0 Exploitation:

S.N.	Item	Proposals (2023-24)	Actual Work (2023-24)	Remarks
3a	Number of pits proposed for production	pit-1	Nil	-
3b	Quantity of ROM mineral production proposed	492000.00 T	Nil	Mining operation & others activity is temporary discontinued due to local issue and others reasons
3c	Recovery of Salable / usable mineral from ROM production	100%	Nil	
3d	Quantity of mineral reject generation	Not proposed	Nil	
3e	Grade of mineral reject generation	Threshold	Nil	

	and threshold value declared	value declared : 15%		
3f	Quantity of sub-grade mineral generation	Not proposed	Nil	
3g	Grade of sub-grade mineral generation	Not proposed	Nil	
3h	Manual/Mechanized method adopted for segregation from ROM	Mechanized	Nil	
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	Yes	Nil	
3k	Provision of mining machineries in mineral benches	Shovel and dumper combination	Nil	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	05 meter	5 meter	mine is under temporary discontinuance
3m	Total area covered under excavation /pits	10.90 ha during plan period	7.85	
3n	Ore to OB ratio for the pit/mine during the year	01: 0.69 (t:cum)	0.00	Nil production as Mine was temporarily discontinued.
3o	Total area put in use under different heads at the end of year	32.38 ha during plan period	24.55	24.55 ha used under different heads till date.
3p	Production of ROM mineral during last five-years period, as Applicable (tonne)	2020-21: 343200.00T 2021-22 :373440.00 T 2022-23 :484320.00 T 2023-24: 4920000.00 T 2024-25 : 498000.00	2020-21: 173570.00T 2021-22 :151481.370 T 2022-23 :147888.49T 2023-24 : 0.00 2024-25 till 25.01.2025 : 0.00	Mining & other activities stopped from dated 09.11.2022
3q	General remarks of inspecting officer on method of mining etc	The mine was non-working during inspection. Temporary discontinued from 09.11.2022. Notice of Temporary discontinuation submitted to IBM .		

4.0 Solid Waste Management-Dumping:

S.N.	Item	Proposals (2023-24)	Actual Work (2023-24)	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32,33)	Yes	Nil	
4b	Location of topsoil, OB & mineral reject dumps	No dump for topsoil & reject proposed. Location of OB E506980-507100 & N 2256040-2255500	Nil	Mine is under temporary discontinued from 09.11.2022
4c	Number of Dumps within lease area and outside lease area	01	01	
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	NE of lease area	Nil	OB Generation was Nil as Mine was under temporary discontinuance
4e	Number of Active & Alive dumps	Top soil-01 BHQ/BMQ-01 Metapellite-01	Nil	All dumps are active
4f	Number of dead dumps	NA	Nil	
4g	Number of dumps established	Not Proposed	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there	Not Proposed	-	Found constructed in the mines.
4i	Length of Retaining wall or garland drain all along dump	Not Proposed	-	600.00 mtr Retening wall & 1800.00 mtr garland drain Maintained.
4j	Number of settling ponds	Not Proposed	-	01no of settling pond found constructed in the mines
4k	Specific commends of inspecting officer on waste dump management	Separate dumping of topsoil, OB are maintained. Retaining wall and garland drain are maintained along the dump. The mine was non-working during inspection.		

5.0 Solid Waste Management-Backfilling:

S.N.	Item	Proposals (2023-24)	Actual Work (2023-24)	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 (2023-24)	Actual Work (2023-24)	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly-Rule 26 (2)	As per provision of MCDR 2021	Annual report on PMCP Submitted	Annual report on PMCP Submitted in time.
6b	Management of worked/mined out benches Area available for rehabilitation (Ha) Afforestation done (ha) No. of saplings planted during the year Cumulative no. of plants Any other specific method of rehabilitation Cost incurred on watch & care during the year	Not proposed.	Nil	<i>Area is not matured for reclamation and rehabilitation . The mine was non-working during inspection. Temporary discontinued from 09.11.2022. Thus no work carried.</i>
6c	Compliance on reclamation and rehabilitation by backfilling Voids available for backfilling (L*B*D) Void filled by waste/tailings Afforestation on the backfilling	Not proposed	Nil	Area is not matured for reclamation

	Rehabilitation by making water reservoir			and rehabilitation.
	Any other specific means			
6d	Compliance of Rehabilitation of waste land within lease	Not proposed	Nil	
	i. Afforestation			
	ii. Area rehabilitation (ha)			
	iii. Method of rehabilitation			
6e	Compliance of Environment monitoring (core zone & buffer zone)	Complied	Environmental monitoring carried out	
6f	General remarks of inspecting officer on PMCP compliance & progressive closer operations	Environmental monitoring carried out. Air quality, Surface Water, Ground water & Noise level monitoring carried out. All parameters are within limits		

7.0 Mineral Conservation:

S.N.	Item	Proposals (2023-24)	Actual Work (2023-24)	Remarks
7a	ROM mineral dispatch or grade wise sorting within lease area	NA	0.00	Mine is under temporary discontinuance
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanical	Nil	mobile Crusher & screening plant established.
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	The mine was non-working during inspection. Temporary discontinued from 09.11.2022. Notice of Temporary discontinuation submitted .-		

8.0 Environment:

8a	Separate removal and utilization of topsoil (Rule32)	Yes	Nil	
8b	Concurrent use or storage of topsoil	Not proposed.	Nil	Mine is Non-Working.
8c	Separate dumps for overburden waste rock, rejects and fines (Rule 33)	Separate dumping of topsoil, OB .	Mine is Non-Working.	Separate dumping of topsoil, OB are maintained.

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)	Nil	0.00	-
8g	Survival rate	Not specified	Nil	-
8h	Water sprinkling on roads to control airborne dust	Water tanker	Mine is Non-Working.	Mine is under temporary discontinuance
8i	General remarks of inspecting officer on aesthetic beauty in and around mine area	Mine is under temporary discontinuance However, aesthetic beauty in and around mines area is Maintained.		

9.0 Compliance of Rule 45:

SN	Item	Comments	Remarks
9a	Status of submission of monthly and Annual returns	M.R. Submitted upto December 2024 A.R. Submitted upto F.Y. 2023-24	
SN	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 - Mr. Parth Basu, Geologist - Mr. Jayant Kumar Pashine, Manager - Mr. Deepak Kumar Gupta	Mr. Jayant Kumar Pashine-Geologist terminated on dated 18.06.2024 & Mr. Chetan Ram appointed as a geologist on dated 24.06.2024. Notice of appointment/termination submitted in form H
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under current (O-C) Workings- 7.150 Ha., Used for waste disposal- 7.290 Ha., Occupied by plant, buildings, residential, welfare buildings and roads -3.560 Used for any other purpose (specify)	Mine is not in operation during the financial year 2023-24

		4.35 Ha.		
9d	Scrutiny of Annual return on afforestation	Nil	As per AR	
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	Nil	As per AR	
9f	Scrutiny of Annual return on ROM stock and/or grade ore	Closing stock of Fines (Magnetite) 58% to below 60% - 72831.719 t, 62% to below 65% Fe- 53965.090,	As per AR	-
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production costs	sale price- 58% to below 60% fines - 3641.00 Rs/t	As per AR	
		Cost of production- 1039.00 Rs/t		
9i	Scrutiny of Annual return on Fixed assets	Value of Fixed assets 499464678.00	As per AR	-
9k	Scrutiny of Annual return on mining Machineris	no. of machineris-0.00	As per AR	Mine is not in operation

10. Drone Survey Information and data thereof.

Drone survey data uploaded timely on website on 27.05.2024.

11. Status of compliance of MCDR, 2017 including therewith the rectification of outstanding violation of the rules.

(i) No violation was pointed during previous inspection.

(ii) No violation pointed during this inspection as the Mine is not in operation during the financial year 2023-24. Notice of temporary discontinuance submitted.

Date: 29.01.2025

(संजय कुमार महापात्र)
सहायक खान नियंत्रक
भारतीय खान ब्यूरो