

MCDR INSPECTION REPORT 2020-21 & 2021-22

General:

S.No	Particulars	Details
1	Name of the Mine	Aridongri Iron Ore Mine of M/s CMDC
2	Date of Inspection:	03-06-2022
3	Name of Inspecting Officer	Mr. D. Upadhyay, Senior Assistant Controller of Mines IBM Raipur
4	Name of official accompanying inspection	Mr. Deepak Kumar Gupta, Mine Manager
5	Last date of Inspection & Officer	09-03-2022 RCOM Raipur
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 The – Bhanupratappur , Dist-Uttar Bastar Kanker CG 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
19	Date of Execution	01-09-2018
20	Weekly day of rest	Sunday
21	Date of opening of Mine	01-06-2019
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	Mr. Jay Prakash Maurya Sector 24 Atal Nagar Nawa Raipur Chhattisgarh 08-06-2021 Mob- 97554-49925
26	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Mr. Shushil Kumar Chandrakar Sector 24 Atal Nagar Nawa Raipur Chhattisgarh 19-03-2019 Mob-79743-35022
27	Name of the Mine Manager with Address, phone, email, fax number and date of appointment in	Mr. Deepak Kumar Gupta Regional Office Bhanupratappur 19-03-2019

	mines	Mob- 70241-39741
28	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 18-05-2021 Mob-70002-57995
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. Kanker/iron/khayo-1167, dated 12-07-2016.
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	Iron ore (Magnetite)
33	Method of Mining (Opencast, Underground)	Opencast
34	Category (Fully Mechanized, Others or Manual)	Fully Mechanized
35	Captive/Non-Captive	Non-Captive
36	Present EC Status	5 lakh metric tonne per annum
37	Status of Financial Assurance	Not Applicable because MDPA has been signed between CMDC & Collector Uttar Bastar Kanker & performance security of an amount equal to INR 10,43,09,862.00 submitted.

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

1.0 Exploration:

S.N.	Item	Proposals (2020-21)	Actual Work (2020-21)	Remarks
1a	Backlog of previous year Proposals	31 no. of bore holes during approved plan period.	Total 33 no. of bore holes drilled of total 3510 meterage.	There is no backlog.
1b	Exploration over lease area for Geological axis 1 or 2.	G1 level	G1 level	G1 level of exploration.
1c	Exploration Agency & Expenditure in Lakh Rupees during the year	Not specified	In house drilling	
1d	Balance area to be explored to bring Geological axis in 1 or 2.	Not specified	Potentially mineralized area drilled under G1 level.	Potentially mineralized area drilled under G1 level.
1e	Balance reserves as on 01.04.2021	1211230T		
1f	General remarks of Inspecting officer on geology, exploration etc.	In response to 31 proposed bore holes, lessee has drilled 33 no. of bore holes of total 3510 meterage.		

2.0 Development:

S.N.	Item	Proposals (2020-21)	Actual Work (2020-21)	Remarks
2a	Location of Development w.r.t. lease area	E506700-507000 & N 2260100-2260300	E506700-507000 & N 2260100-2260300	Development is as per proposal.
2b	Separate benches in topsoil overburden and mineral (Rule 15)	Separate benches in topsoil & OB	Separate benches in topsoil & OB are maintained.	Separate benches in topsoil & OB are maintained.
2c	Stripping ratio or ore to OB ratio	1:0.68T/Cu.m	1:0.72T/Cu.m	Due to irregular nature of ore body SR changes.
2d	Quantity of topsoil generation in m ³	16400 cu.m	16300 cu.m	Top soil generated 16300 cu.m.
2e	Quantity of overburden generation in m ³	251065cu.m	309991cu.m	Due to encounter of BHQ, OB generated more
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	Development is carried out as per proposal.		

3.0 Exploitation:

S.N.	Item	Proposals (2020-21)	Actual Work (2020-21)	Remarks
3a	Number of pits proposed for	01 pit	01 pit	Working is

	production			concentrated in single pit as proposed.
3b	Quantity of ROM mineral production proposed	343200T	173570T	ROM production varies as per market demand.
3c	Recovery of Salable/usable mineral from ROM production	343200T	173570T	
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	Not proposed	Nil	
3g	Grade of sub-grade mineral generation	Not proposed	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	
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	10.90 ha during plan period	2.5 ha	2.5 ha covers under pit at the end 2020-21.
3n	Ore to OB ratio for the pit/mine during the year	1:0.68T/Cu.m	1:0.72T/Cu.m	Due to irregular nature of ore body SR changes.
3o	Total area put in use under different heads at the end of year	32.38 ha during plan period	7.468 ha	7.468 ha covers under different head at the end 2020-21.
3p	Production of ROM mineral during last five-years period, as Applicable (tonne)	2020-21: 343200T	2020-21: 173570T	ROM production started from 2020-21.
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 (2020-21)	Actual Work (2020-21)	Remarks
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4a	Separate dumping of topsoil, OB & mineral reject (Rule 32,33)	Separate dumping of topsoil, OB. Mineral reject not proposed.	Separate dumping of topsoil, OB are maintained.	Separate dumping of topsoil, OB are maintained.
4b	Location of topsoil, OB & mineral reject dumps	Topsoil- Near eastern boundary OB- Along the boundary line BC	Topsoil- Near eastern boundary OB- Along the boundary line BC	Location of topsoil, OB are as per proposal
4c	Number of Dumps within lease area and outside lease area	01 waste dump Within lease area	01 waste dump Within lease area	01 waste 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	01 waste dump	01 waste dump	01 waste dump
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 and garland drain are maintained.
4i	Length of Retaining wall or garland drain all along dump	800m Retaining wall and garland drain.	800m Retaining wall and garland drain.	Retaining wall and garland drain are maintained.
4j	Number of settling ponds	Not proposed	Nil	Nil
4k	Specific comments of inspecting officer on waste dump management	Separate dumping of topsoil, OB are maintained. Retaining wall and garland drain are maintained along the dump.		

5.0 Solid Waste Management-Backfilling:

S.N.	Item	Proposals (2020-21)	Actual Work (2020-21)	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 (2020-21)	Actual Work (2020-21)	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly-Rule 26	As per provision of	Annual report on PMCP	Annual report on PMCP

	(2)	MCDR 2017.	submitted.	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	2200 nos. of plantation in 1.45ha area.	2500 nos. of plantation in 1.45ha area.	2500 nos. of plantation in 1.45ha area.
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. Plantation is carried out as per proposal.		

7.0 Mineral Conservation:

S.N.	Item	Proposals (2020-21& 2021-22)	Actual Work (2020-21& 2021-22)	Remarks
7a	ROM mineral dispatch or grade wise sorting within lease area	Grade wise sorting	Grade wise sorting	Grade wise sorting is being practiced.
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	Grade wise sorting is being practiced by crushing and screening.		

8.0 Environment:

S.N.	Item	Proposals (2020-21)	Actual Work (2020-21)	Remarks
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8a	Separate removal and utilization of topsoil (Rule32)	Yes	Yes	Separate removal and utilization of topsoil is carried out.
8b	Concurrent use or storage of topsoil	Not proposed.	Using in plantation.	Using in plantation.
8c	Separate dumps for overburden waste rock, rejects and fines (Rule 33)	Separate dumping of topsoil, OB .	Separate dumping of topsoil, OB are maintained.	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)	2200 nos. of plantation in 1.45ha area.	2500 nos. of plantation in 1.45ha area.	2500 nos. of plantation in 1.45ha area.
8g	Survival rate	Not specified	Survival rate 85%	Survival rate 85%
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	Aesthetic beauty in and around mines area is maintained by plantation.		

9.0 Compliance of Rule 45:

S N	Item	Comments		Remarks
9a	Status of submission of monthly and Annual returns	AR & MR submitted reguraly.		AR & MR submitted reguraly.
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, 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	Pit-2.5 ha, Dump-	Found in order.	Found in order.

	land use pattern for area under pits, reclaimed area, dumps etc.	2.718ha, Infrastructure-2.25 ha		
9d	Scrutiny of Annual return on afforestation	2200 nos. of plantation	Found in order.	Found in order.
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 60-62% Fe-26426.7T 62-65% Fe-147143.299T	Closing stock 60-62% Fe-26426.7T 62-65% Fe-147143.299T	Closing stock 60-62% Fe-26426.7T 62-65% Fe-147143.299T
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production costs	Ex mine price 60-62% Fe-Rs4502 62-65% Fe-Rs5312	Ex mine price 60-62% Fe-Rs4502 62-65% Fe-Rs5312	Ex mine price 60-62% Fe-Rs4502 62-65% Fe-Rs5312
9i	Scrutiny of Annual return on Fixed assets	Fixed assets Rs 575177066/-	Fixed assets Rs 575177066/-	Fixed assets Rs 575177066/-
9k	Scrutiny of Annual return on mining Machineries	Back hoe, Dumper, Water Tanker & Crusher	Back hoe, Dumper, Water Tanker & Crusher	Back hoe, Dumper, Water Tanker & Crusher

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

No violations are pointed out during inspection.

Date: 30/06/2022

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