

## MCDR INSPECTION REPORT 2022-23

1) Name of Inspecting officer:	Shri Prem Prakash
2) Designation	Regional Controller of Mines
3) Accompanying mine official with designation	Shri Ganga Ram Verma, Mine Agent
4) Date of Inspection	06.06.2023
5) Last date of Inspection & Officer	Date-04.11.2022 and Shri D. Chinchkhede, ACOM

### I. GENERAL INFORMATION

Sl. No	Particulars	Details
1	Name of the Mine	KACHCHE ARIDONGRI IRON ORES MINES
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	138.96 Ha (Forest = 127.40 Ha, Non Forest = 11.56 Ha)
3	Mine code	30CHG08008
4	IBM Registration Number under rule 45 of MCDR,1988	IBM/4342/2011
5	Name of the Lease, Address, Phone, email and fax number	Kachche Aridongri Iron Ores Mines Village: Kachche, Taluka: Bhanupratappur, District: Kanker State: Chhattisgarh Fax : 0771-4082709, 4082765 Email id : vinod.pillai@hiragroup.com
6	Village	Kachche
7	Taluka/Mandal	Bhanupratappur
8	District	Uttar Baster, Kanker
9	Pincode	494635
10	State	Chhattisgarh
11	Post Office	Kachche
12	Nearest Police Station	Kachche
13	Nearest Railway Station	Gudum
14	Date of Grant of Mining Lease	30.09.2008
15	Date of Execution	03.09.2015 (Amalgamated Lease)
16	Date of opening of Mine	16.01.2009
17	Date of First Renewal, if applicable and its period & expiry	NA
18	Date of Second Renewal, if applicable and its period & expiry	NA
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	NA
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Mr Vinod Pillai B-7 Sahni Vihar, Raipur Phone -0771-4082706, Fax – 0771-4057601 Email id <a href="mailto:vinod.pillai@hiragroup.com">vinod.pillai@hiragroup.com</a>

		Appointment date 28.07.2009
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Mr Ganga Ram Verma H.NO. – 168, Capital City Phase 1 Saddu Raipur Phone No 07714082765/7004502568 Email id <a href="mailto:gangaram.verma@hiragroup.com">gangaram.verma@hiragroup.com</a> Date of Appointment : 11.09.2019
22	Name of the Mine Manager with Address, phone, email, fax number and date of appointment in mines	Mr J B Singh Kachche Aridongri Iron Ore Mine Village- Kachche, Tehsil- Bhanupratappur, Dist. Kanker (C.G.) Mobile No 9685090986 Date of Appointment : 08.09.2015
23	Name of the Mining Engineer, Qualification and total experience with address, phone, email, fax number and date of appointment in the mine	Mr Shailendra Suryavanshi Kachche Aridongri Iron Ore Mine Village- Kachche, Tehsil- Bhanupratappur, Dist. Kanker (C.G.) Mobile No : 9685090602 Date of Appointment : 08.09.2015
24	Whether Geologist and Mining Engineer appointment in mines satisfy the rule 55 & carrying out their duties as per rule 56 & 57.	Mr. Roop Sai Taigore (Geologist) Mr Shailendra Suryavanshi (Mining Engineer) Yes
25	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 Plan Period : 2020-21 to 2024-25 No specific conditions have been mentioned
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five- year period and specific condition in approval letter, if any.	09.01.2020
27	Mineral(s) granted in lease and approved for Mining	Iron ore
28	Method of Mining (Opencast, Underground)	Opencast
29	Category (Fully Mechanised, Others or Manual)	Fully mechanized
30	Captive/Non-Captive	Captive

## II. SCIENTIFIC MINING

**[Data in respect of financial year (2022-23) or cumulative, as applicable]**

Sl. No	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
<b>A. EXPLORATION:-</b>				
1a	Backlog of Previous Year	Nil	Nil	
1b	Exploration Over Lease area for Geological Axis 1 or 2	17 Nos.	48 Nos.	A total of 48 boreholes covering 7952.05 m of core drilling was reported carried out for proving the lateral & vertical continuity of ore and also for proving the area as non-mineralized.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not specified	M/s Kartikay Exploration & Mining Services (P) Limited	
1d	Balance area to be explored to bring Geological axis 1 or 2	-	22.66 Ha	Balance area to be explored
1e	Balance reserves as on 01/10/2019	Total reserve=30.251 million tonne		As per Review of Mining Plan approved on 09.01.2020
1f	General remarks of inspecting officer on geology, exploration etc.	Adequate exploration has been carried out by the lessee.		

Sl. No	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
<b>B. DEVELOPMENT:-</b>				
2a	Location of development w.r.t. lease area	506501.726E to 507035.329E & 2256275N to 2257263.881N	Excavation carried out as per proposal	
2b	Separate benches in topsoil, overburden and mineral	Separate benches proposed in OB & mineral	Separate benches were maintained in OB & mineral	
2c	Stripping ratio or ore to OB ratio	1:0.938	1:1.01	Ore : OB On tonne to Cu.m

2d	Quantity of topsoil generation in m3	No proposal	Nil	
2e	Quantity of overburden generation in m3	22,03,573 m3	23,67,821 m3	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	The developments have been carried out as per the proposal.		

Sl. No	Item	Proposals(2022-23)	Actual Work(2022-23)	Remarks
<b>C. EXPLOITATION:-</b>				
3a	Number of Pit Proposed for Production	One (01)	One (01)	
3b	Quantity of ROM mineral production proposed in Tonne	23,46,410	23,33,489	As per MR submitted
3c	Recovery of Sailable/ Usable Mineral from ROM Production	90%	100%	As per MR submitted
3d	Quantity of mineral reject generation in Tonne	-	-	AR not submitted for FY 2022-23 up to the date of inspection. Due date of submission is 30.06.2023.
3e	Grade of mineral reject generation and threshold value declared	Not specified	-	
3f	Quantity of sub-grade mineral generation	No proposal	Nil	
3g	Grade of sub-grade mineral generation	No proposal	N/A	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	
3i	Any analysis or	No proposal	Nil	

	beneficiation study proposed & carried out for sub-grade mineral and reject			
3j	Provision of drilling & blasting in mineral benches	Drilling and Blasting proposed in mineral benches	Drilling and blasting was carried out in mineral benches as proposed	
3k	Provision of mining machineries in mineral benches	Yes, HEMMs	HEMMs deployed	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Benches of 6 to 8 meter in in overburden and mineral	Yes	
3m	Total area covered under excavation/pits	40.277 Ha up to the end of plan period 2024-25	About 37 Ha. Up to end of F.Y. 2022-23	
3n	Ore to OB ratio for the pit/mine during the year	1:0.938	1:1.01	Ore : OB On tonne to Cu.m
3o	Total area put in use under different heads at the end of year	Total put to use-122.767 Ha. up to 2024-25	About 120 ha Up to end of F.Y. 2022-23	
3p	Production of ROM mineral during last five-year period, as applicable	2018-19: 1399890 2019-20: 1399900 2020-21: 1400159 2021-22: 2351697 2022-23: 2346410	2018-19: 1182025 2019-20: 1347258.84 2020-21: 1399971.09 2021-22: 2104823.91 2022-23: 2333489.9	In Tonne
3q	General remarks of inspecting officer on method of mining etc.	Open cast working being carried out by deployment of HEMM with the help of drilling & blasting.		

Sl. No	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
<b>D. SOLID WASTE MANAGEMENT - DUMPING:-</b>				
4a	Separate Dumping of Topsoil, OB and Mineral Rejects (Rule 32,33)	Proposed	Maintained	
4b	Location of Topsoil, OB and Mineral Rejects Dumps	Yes. WD1 proposed between 506218E to	Waste dumping not carried out as per proposal	Violation is pointed out under Rule 11 (1) of MCDR, 2017.

		506850E & 2256836N to 2257622N in the Northern part of the lease, Waste Dump WD2 Between 506223E to 506566E & 2256055N to 2256336N and waste dump WD3 Between 506672E to 506806E & 256209N to 2256293N		
4c	Number of Dumps within Lease & Outside Lease area	Within Lease: 4 Nos. Outside Lease : Nil	Within Lease: 3 Nos. Outside Lease : Nil	Violation is pointed out under Rule 11 (1) of MCDR, 2017.
4d	Location of Dumps, within Ultimate Pit Limit (Rule-16)	Outside the Ultimate Pit Limit within the lease	Beyond Ultimate Pit Limit	
4e	Number of Active & Alive Dumps	4 Nos.	3 Nos.	Violation is pointed out under Rule 11 (1) of MCDR, 2017.
4f	No of Dead Dumps	-	Nil	
4g	Number of dumps Stabilized	-	Nil	
4h	Whether Retaining Wall or Garland drain along Dumps are there	Yes	Not constructed fully	Violation under Rule 11(1) issued
4i	Length of Retaining Wall or Garland drain along Dumps	RW : 155 m Garland Drain : 158 m	Not constructed fully	Violation under Rule 11(1) issued
4j	No. of Settling tanks	No proposal	1 Nos.	
4k	Specific comments of inspecting officer on waste dump management	Waste dumping has not been carried out as proposed. Further, adequate environmental protection measures have not been undertaken around the waste dump as proposed. Violation under Rule 11(1) of MCDR, 2017 issued.		

Sl. No	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
<b>E. SOLID WASTE MANAGEMENT - BACKFILLING:-</b>				
5a	Status of part or full extraction of mineral from mined out area before starting backfilling	No proposal	Nil	
5b	Area under backfilling	No proposal	Nil	

	of mined out area			
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	No proposal	Nil	
5d	Total area fully reclaimed and rehabilitated	No proposal	Not applicable	
5e	General remarks of inspecting officer on backfilling, reclamation etc.	No proposal backfilling in FY 2022-23, however, backfilling as proposed in approved RMP in Northern part of the mine/lease during FY 2020-21 has not been carried out so far. Violation under Rule 11(1) issued in this regard.		

Sl. No	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
<b>F. PROGRESSIVE MINE CLOSURE PLAN:-</b>				
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 26(2)	To be submitted before 01st July every year	PMCP report to be submitted	Due date of submission 30.06.2023
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	No proposal	Nil	
6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L X B X D) ii) Void filled by waste/tailings iii) Afforestation on	No proposal	Nil	

	the backfilled area iv) Rehabilitation by making water reservoir v) Any other specific means			
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	8518 Nos. 3.407 Ha. -	About 10000 Nos. About 4.0 Ha. -	As reported during inspection
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Environmental monitoring of air, water & noise proposed	Environmental monitoring of air, water & noise was carried out as per the proposal	All values of environment parameters were within permissible limits
6f	General remarks of inspecting officer on PMCP compliance & progressive closure operations	Plantation as proposed in RMP in eastern side of the lease (near BP-E to BP-F) and near to Screening Plant have not been carried out. Violation under Rule 11(1) issued in this regard.		

Sl. No	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
<b>G. MINERAL CONSERVATION:-</b>				
7a	ROM mineral dispatch or grade wise sorting within lease area	Proposed for crushing and screening of blasted ROM	Mechanized crushing and screening has been carried out	
7b	Method of Grade-wise mineral sorting i.e. manual or mechanical	Mechanized	Mechanized	Mechanized Crushing and Screening
7c	Different grade of mineral sorted out at mines	Yes	Yes	
7d	Any beneficiation process at mines	No proposal	Nil	Only dry crushing & Screening is carried out at Mines, and Magnetic separation of low grade iron ore is being carried out at mines.



7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	The blasted ROM have been crushed/screened to different sizes as per requirement of the captive steel plant.
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#	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
<b>H. ENVIRONMENT:-</b>				
8a	Separate removal and utilization of topsoil	No proposal	Nil	No topsoil reported generated during the year
8b	Concurrent use or storage of topsoil	Yes, for plantation	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines	Proposed	Separate dumps are maintained	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	Nil	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc.)	No proposal	Nil	
8f	Baseline information on existence of plantation & additional plantation done	Plantation Proposed : WML: 8518 saplings in 2022-23	Within lease area- About 10000 nos. saplings	As reported during inspection
8g	Survival rate	Not specified	About 80%	As reported during inspection
8h	Water sprinkling on roads to control airborne dust	Proposal of water sprinkling on roads through water tanker	Water sprinkling being carried out on haul roads to suppress the dust generated	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Aesthetic beauty in & around the mine area was good.		

Sl. No	Item	Comments	Remarks
<b>I. COMPLIANCE OF RULE-45:-</b>			
9a	Status of Submission of Monthly & Annual	MR being submitted regularly AR Submitted up to = FY 2021-22	Annual Return has not been submitted for FY 2022-23 up to the date of

	Returns		inspection. Due date of submission is 30.06.2023.
Note: - Scrutiny of Annual Return for FY 2021-22 was carried out during last inspection by Shri Deepak Chinchkhede, ACOM on dated 04.11.2022.			

10- Details of violations observed during current inspection:-Violation of Rule 11(1) of MCDR 2017 is pointed out after current inspection.

Date: - 25.10.2023

प्रेम प्रकाश / Prem Prakash  
क्षेत्रीय खान नियंत्रक / Regional Controller of Mines  
भारतीय खान ब्यूरोरायपुर , / Indian Bureau of Mines, Raipur