

MCDR INSPECTION REPORT 2022-23

1) Name of Inspecting officer:	Prem Prakash
2) Designation	Regional Controller of Mines, Raipur
3) Accompanying mine official with designation	Mr. Subhash Singh (DGM, Mining), Mr. Amar Kumar Choudhary (Mine Manager), Mr. Amitabh Nandan (Mining Engineer), Mr. Amit Kumar Pandey (Geologist), Mr. Ramnandan Singh (Surveyor)
4) Date of Inspection	07/06/2023
5) Last date of Inspection & Officer	Date-13/07/2022 Shri D. Upadhyay, Sr. ACOM and Shri A. K. Gadatia, AME

I. GENERAL INFORMATION

Sl.No	Particulars	Details
1	Name of the Mine	Hahaladdi Iron Ore Mine
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	78.90 Ha. (Total forest land)
3	Minecode	30CHG08011
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/1038/2011
5	Name of the lessee, Address, phone, email and fax number	JSW Ispat Special Products Limited
6	Village	Hahaladdi
7	Taluka/Mandal	Durgukondal
8	District	North Bastar Kanker
9	Pincode	494669
10	State	Chhattisgarh
11	Post office	Durgukondal
12	Nearest police station	Durgukondal
13	Nearest Railway station	Keoti
14	Date of Grant of Mining Lease	06/01/2017
15	Date of Execution	07/01/2017
16	Date of opening of Mine	01/11/2021
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	Paresh Shah, JSW Ispat Special Products Limited Village & PO: Naharpali Tehsil: Kharsia Dist: Raigarh, State: Chhattisgarh, Pin code-496661, Mob No.- 995377990, Email- rana@aionjsw.in, Date of Appointment- 01/09/2022
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Paresh Shah, JSW Ispat Special Products Limited Village & PO: Naharpali

		Tehsil: Kharsia Dist: Raigarh, State: Chhattisgarh, Pin code-496661, Mob No.- 995377990, Email- rana@aionjsw.in, Date of Appointment- 01/09/2022
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Amar Kumar Choudhary, Village & Post: Sandi, PS: Rajrappa, Dist: Ramgarh, State: Jharkhand. Pin: 829150 Mob No.7024155954 Email: amarkumar321@rediffmail.com Date of Appointment: - 01/07/2022
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Amitabh Nandan, BE (Mining) Exp: 22 years. H.No. 4/148/84, Binda Niwas, Behind Shubham Residency, Durgabhat, Ponda, Goa, Pin: 403401 Mob No. 9049315045 Email: amitabh.nandan@aionjsw.in Date of Appointment: - 01/11/2021)
24	Name of the Geologist , Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Amit Kumar Pandey, M.Sc.(Geology) Exp: 15years. C/O: Girwar Kuldeep, Ward No. 05, Tehsil Para, Bhanuprattapur, Dist: North Bastar Kanker, Chhattisgarh, 494669 Email:geological@aionjsw.com Date of Appointment: - 01/11/2021)
25	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Yes
26	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Date of approval of Mining Plan: 17/01/2008 Modified Mining Plan: 12/08/2022
27	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	-
28	Mineral(s) granted in lease and proved for mining	Iron Ore
29	Method of Mining(Open cast, Underground)	Open cast
30	Category (Fully Mechanised, Others or Manual)	Fully Mechanised
31	Captive/Non Captive	Captive

1.0 Exploration:-

Sl. No	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
1a	Backlog of Previous Year	Nil	Nil	
1b	Exploration Over Lease area for Geological Axis 1 or 2	20 nos.	60 nos. boreholes Total depth: 2270 mts.	Proposal of 67 boreholes during plan period 2022-23 to 2024-25 in MRMP
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not Specified	(i) Anshu Exploration & Resources (ii) Gems Project Private Limited Expenditure: Rs.- 1,84,82,934/-	As reported in AR submitted for the year 2022-23
1d	Balance area to be explored to bring Geological axis 1 or 2	-	Approx. 15 Ha.	Balance area to be explored
1e	Balance reserves as on 01/04/2023	Under (122):- 2.686 Million Tonne as on 01.07.2022		As per Modification of Review of Mining Plan approved on 12.08.2022
1f	General remarks of inspecting officer on geology, exploration etc.	Adequate exploration has been carried out by the lessee.		

2.0 Development:-

Sl. No	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
2a	Location of development w.r.t. lease area	Development proposed in between coordinates E 488568.6- E488663.8 N 2236244.3- N 2236344.3	Development being carried out in the same area by making approach road etc. as this is a new mine	
2b	Separate benches in topsoil, overburden and mineral	No proposal	NA	Since, the thickness of topsoil is less than 1 meter hence separate bench development is not feasible
2c	Stripping ratio or ore to OB ratio	1: 00	1:00	
2d	Quantity of topsoil generation in m3	2328	1000	
2e	Quantity of overburden generation in m3	No proposal	Nil	

2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	The mining operation is in initial stage and development works being carried out adequately.
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3.0 Exploitation:-

Sl. No	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
3a	Number of Pit Proposed for Production	One (01)	Not carried out	
3b	Quantity of ROM mineral production proposed	150000 T	120477.160 T	As per MR submitted
3c	Recovery of Saleable/ Usable Mineral from ROM Production	132000 ton	120477.160 T	Annual Return was not submitted during the date of inspection. Due date of AR submission up to 30.06.2023
3d	Quantity of mineral reject generation	No proposal	Nil	
3e	Grade of mineral reject generation and threshold value declared	No proposal	Nil	
3f	Quantity of sub-grade mineral generation	No proposal	Nil	
3g	Grade of sub-grade mineral generation	No proposal	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No proposal	Nil	
3j	Provision of drilling & blasting in mineral benches	Drilling and Blasting proposed in mineral benches	Nil	During the last financial year 2022-23, the mine was under initial development stage.
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 meter in mineral	Maintained	New mine under development stage
3m	Total area covered under excavation/pits	2.172 Ha. up to the end of plan period 2025-26	About 1.5 Ha. Up to end of F.Y. 2022-23	

3n	Ore to OB ratio for the pit/mine during the year	1: 00	1:00	
3o	Total area put in use under different heads at the end of year	Total put to use-8.684 Ha. up to 2025-26	About 4 ha up to end of F.Y. 2022-23	
3p	Production of ROM mineral during last five-year period, as applicable	2018-19: 72450 2019-20: 96600 2020-21: 96600 2021-22:96600 2022-23:150000	2018-19: Nil 2019-20: Nil 2020:21: Nil 2021-22: 2393.49 2022-23:120477.160	
3q	General remarks of inspecting officer on method of mining etc.	Open cast working being carried out. This is a new mine under development stage.		

4.0 Solid Waste Management-Dumping:-

Sl. No	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
4a	Separate Dumping of Topsoil, OB and Mineral Rejects (Rule 32,33)	Proposed	Being carried out	
4b	Location of Topsoil, OB and Mineral Rejects Dumps	Topsoil stack in between UTM co-ordinate E488996.0 -489042.0 N2236468.9-2236532.2	Topsoil being utilized for plantation	OB/ Waste dump nil
4c	Number of Dumps within Lease & Outside Lease area	Lease area = 1 Out Side lease area: Nil	Lease area = Nil Out Side lease area: Nil	Fines observed stacked near to crusher at non-proposed area. Violation under Rule 11(1) issued in this regard
4d	Location of Dumps, within Ultimate Pit Limit (Rule-16)	Proposed beyond Ultimate pit limit	Outside UPL	
4e	Number of Active & Alive Dumps	01	Nil	
4f	No of Dead Dumps	Nil	Nil	
4g	No of Dumps Established	1	Nil	
4h	Whether Retaining Wall or Garland drain along Dumps are there	Yes	Not constructed around the fines stack	Violation under 11(1) issued.
4i	Length of Retaining Wall or Garland drain along Dumps	98 mtr.	About 200 mtr.	
4j	No. of Settling tanks	5 nos.	4 nos.	
4k	Specific comments of inspecting officer on waste dump management	Environmental protection measures have not been undertaken around the fines stack as proposed. Violation under 11(1) issued.		

5.0 Solid Waste Management-Backfilling:-

Sl. No	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling	No proposal	Nil	No area has exhausted fully for carrying out backfilling
5b	Area under backfilling of mined out area	No proposal	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	No proposal	Not applicable	
5d	Total area fully reclaimed and rehabilitated	No proposal	Not applicable	
5e	General remarks of inspecting officer on backfilling, reclamation etc.	Mineral has not been exhausted fully & thus no proposal was given for backfilling.		

6.0 Progressive Mine Closure Plan:-

Sl. No	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
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	No area is mined out fully at present
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 the backfilled area	No proposal	Nil	No area has got matured for reclamation and rehabilitation purpose

	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	300 Nos - -	1300 Nos - -	
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	Substantial plantation has been carried out in the safety zone (7.5 mt.) area near to the entrance of the mine.		

7.0 Mineral Conservation:-

Sl. No	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
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	Mechanised	Mechanized	Mechanised Crushing and Screening
7c	Different grade of mineral sorted out at mines	Yes	Yes	
7d	Any beneficiation process at mines	No proposal	No beneficiation being done in mines except crushing/screening	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	The ROM have been crushed/screened to different sizes as per requirement of the captive steel plant.		

8.0 Environment:-

Sl. No	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
8a	Separate removal and utilization of topsoil	Yes	Yes	For stacking and utilization
8b	Concurrent use or storage of topsoil	Proposed for concurrent use and stacking	Being used concurrently	
8c	Separate dumps for overburden, waste rock, rejects and fines	Yes	Waste dump- Nil Fines Stack-01 No.	

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: 300 saplings in 2022-23	Within lease area-1300 nos. saplings	As reported during inspection
8g	Survival rate	80%	Approx.70%	
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.		

9.0 Compliance of Rule 45 (2022-23):-

Sl. No	Item	Comments	Remarks
9a	Status of Submission of Monthly & Annual Returns	MR being regularly submitted AR submitted up to 2021-22	AR not submitted for 2022-23 as on date of inspection. Due date of submission 30.06.2023.
Note- Scrutiny of Annual Return for FY 2021-22 was carried out during last inspection by Shri D. Upadhyay, Sr. ACOM and Shri A. K. Gadatia, AME on dated 13.07.2022.			

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

Date: - 24.08.2023

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