

## MCDR INSPECTION REPORT

**General**

S. N.	Particulars	Details
1	Name of the Mine	Jaribahal Iron Ore Mine
	Name of Inspecting officer with Designation	Sujit Kumar Jena, JMG
	Date of Inspection	08.11.2024
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	107.440 Ha (Forest Land -99.679 Ha, Non-Forest Land - 7.761 Ha)
3	Mine code	30ORI08120
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/7805/2011
5	Name of the lessee, Address, phone, email and fax number	M/s Kashvi International Pvt. Ltd. 1234/P Govind Prasad, Bomikhal, Rasulgarh, Bhubaneswar State-Odisha, Pin code-751010 Phone No- 06742549944 Fax No- 06742549944 Email- <a href="mailto:groupkashvi@gmail.com">groupkashvi@gmail.com</a>
6	Village	Jaribahal
7	Taluka/Mandal	Barbil
8	District	Keonjhar
9	Pincode	758034
10	State	Odisha
11	Post office	Bamebari
12	Nearest police station	Bamberi
13	Nearest Railway station	Jaroli
14	Date of Grant of Mining Lease	29.06.2020
15	Date of Execution	29.06.2020
16	Date of opening of Mine	25.07.2020
17	Date of first Renewal, if applicable and its period & expiry	Not Applicable
18	Date of second Renewal, if applicable and its period & expiry	Not Applicable
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	Not Applicable
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Mr. Debabrata Behera 1234/P Govind Prasad, Bomikhal, Rasulgarh, Bhubaneswar State-Odisha, Pin code-751010 Phone No- 06742549944 Fax No- 06742549944 Email- <a href="mailto:groupkashvi@gmail.com">groupkashvi@gmail.com</a>
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri D.N. Parida At/Po: Baneikala,Joda Dist-Keonjhar, Pin-758034 State-Odisha Date Of Apointment-07.09.2020

22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Shri S.K. Panda (AMIE)-Mining At- Ward No-03 Po- Joda Dist- Keonjhar Odisha, Phone No- 9437355832 Email- suryakantapanda1970@gmail.com Date of Appointment – 15.07.2020
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri Sanjaya kumar Prusty (Mining Engineer) (AMIE)-Mining At/Po - Anal Via - Mathakargola Dist -Dhenkanal Odisha,759024 Ph. No.- 8480903138 Email- skprusty041@gmail.com Total Experience-13years Date Of Apointment-16.08.2020
24	Name of the Geologist, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri Pritam Keshari Patra M.Sc (Geology), At-Badahal Po- Keonjhar town Dist- Keonjhar Odisha,758001 Ph. No.-9437214696 Email- pritam4696@gmail.com year of experience-18years Date Of Apointment-03.09.2020
25	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55& carrying out their duties as per rule 56 & 57.	Yes
26	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	<ul style="list-style-type: none"> <li>• Date of Approval of Mining Plan : 05.11.2020</li> <li>• Modification of Mining Plan has been approved by IBM vide letter no-MCDR-MiFLOFE/6/2022-BBS-IBM_RO_BBS dt. 19.04.2023.</li> </ul>
27	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	NA
28	Mineral(s) granted in lease and proved for mining	Iron (Hematite Ore).
29	Method of Mining(Opencast, Underground)	Opencast
30	Category (Fully Mechanised, Others or Manual)	Category A - Fully Mechanized(A-FM)
31	Captive/Non Captive	Captive
32	Present EC Capacity	0.998 MTPA

Scientific Mining: Compliance of proposals of approved mining plan/scheme of mining. (Duplication of information in existing TMIS data sheets and draft write up has been avoided.)

### Exploration

S.N.	Item	Proposals for, 2023-24	Actual work during 2023-24	Remark
1a	Backlog of previous year	Nil	Nil	-
1b	Exploration over lease area for Geological axis 1 or 2.	16 Nos of Boreholes were proposed for exploration.	22 Nos of boreholes with 1107 total meterage has drilled.	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	No specific proposal	M/s V K S Mining Services	
1d	Balance area to be explored to bring Geological axis in 1 or 2	G1- 69.88 Ha G2-37.56 Ha Up to 19.09.2022	G1- 99.88 Ha G2-7.56 Ha	
1e	Balance reserves as per latest approved document	Iron ore - 4974555.56tonne (balance reserve as on 31.03.2023)	Iron ore - 3977160.56tonne (balance reserve as on 31.03.2024)	
1f	General remarks of inspecting officer on geology, exploration etc.	Jaribahal ML area is a south eastern part of the Singhbhum- Keonjhar-Bonai belt. This deposit occupies a south central position on the eastern limb of the synclinorium. The main rock types found in this mine are Laterite, Lateritic iron ore, Hematite (Laminated, blue dust), BHJ/BHQ. Based on exploration data, the configuration of ore body as follows. Iron ore: 550m X 85m X 45m (Average Grade 54.79 % Fe)		

### Development

S.N.	Item	Proposals for, 2023-24	Actual work during 2023-24	Remark
2a	Location of development w.r.t. lease area	BLOCK-A & B  In NE-SW & NW-SE direction	BLOCK-A & B  In NE-SW & NW-SE direction	Development is continuing; as per approved proposal.
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	No Proposal for top soil generation. No. of benches for Ore-3 No. of benches for OB-10	Broadly as per proposals.	Development is continuing; as per approved proposal.

2c	Stripping ratio or ore to OB ratio	Stripping ratio - 0.4190 t/m <sup>3</sup>	Now actual stripping ratio-0.48 t/m <sup>3</sup>	
2d	Quantity of topsoil generation in m <sup>3</sup>	NA	NA	
2e	Quantity of overburden generation in m <sup>3</sup>	2381997 Cum	2055351.30 Cum	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc	Developments of pits were not carried out as per the approved MP during year 2023-24 due to narrow /pocket/irregular nature of ore body occurrence at some of locations. V/L Issued.		

### EXPLOITATION

N.	Item	Proposals for, 2023-24	Actual work during 2023-24	Remark
3a	Number of pits proposed for production	2Nos. BLOCK – A & B	2Nos. BLOCK – A & B	As per proposal.
3b	Quantity of ROM mineral production proposed	Iron Ore -998000tonnes	Iron Ore -997395tonnes	
3c	Recovery of salable/usable mineral from ROM production	Fe-100%(+45% Fe)	Fe-100%(+45% Fe)	
3d	Quantity of mineral reject generation	NIL	NIL	Total ROM is salable.
3e	Grade of mineral reject generation and threshold value declared	Threshold value is 45% of Fe content. As per buyers requirement we use Iron ore above 45% Fe. So, no Reject was generated.	As per proposal	
3f	Quantity of sub-grade mineral generation	-	-	
3g	Grade of sub-grade	-	-	

	mineral generation				
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized		Mechanized	Segregating from ROM is carried out by Screening & Crushing.
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	Deep Hole drilling with controlled type of blasting was proposed keeping depth 9.9m, spacing up to 2.5m & burden 2m. Also rock breakers are used for hard Ore breaking.		Presently Deep Hole drilling with controlled type of blasting and depth 9.9m, spacing up to 2.5m & burden 2m.	
3k	Provision of mining machineries in mineral benches	Type of machinery	Capacity of each unit	No. of units	As per proposals.
		Excavator	2.5CuM	1	
			2.4CuM	2	
		Dumpers	25T/35T	15	
		Drill Machine	115mm	1	
			80mm	1	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height of bench both for OB & Ore - 9mtr.		Maintained	
3m	Total area covered under excavation/pits	48.31 ha		48.31 ha	As per proposal.
3n	Ore to OB ratio for the pit/mine during the year	Stripping ratio – 0.41 t/m <sup>3</sup>		Stripping ratio – 0.48 t/m <sup>3</sup>	

3o	Total area put in use under different heads at the end of year	<b>Type of land use (in ha)</b>	<b>Actual Area utilized in the proposal period</b>	As per proposals.	Up to 31.10.2024.
		Mining	48.31		
		Mineral Storage	9		
		Mineral Beneficiation plant	7.5		
		Township	0.00		
		Railways	0.00		
		Roads	2.20		
		Infrastructure (Workshop, administrative building etc.)	2.50		
		OB/waste dump	29.04		
		Top soil preservation	0.00		
		Tailing Pond	0.00		
		Effluent Treatment Plant	0.00		
		Others(Safety Zone and Protective Measures)	8.89		
3p	Production of ROM mineral during last six-year period, as applicable 2019-20 2020-21 2021-22 2022-23 2023-24	<b>2020-21</b> 998000Tonnes. <b>2021-22</b> 998000Tonnes. <b>2022-23</b> 998000Tonnes. <b>2023-24</b> 998000Tonnes.	<b>2020-21</b> 798530Tonnes. <b>2021-22</b> 997140Tonnes. <b>2022-23</b> 997550Tonnes. <b>2023-24</b> 997395Tonnes		
3q	General remarks of inspecting officer on method of				

**Solid Waste management-Dumping**

S.N.	Item	Proposals for, 2023-24	Actual work during 2023-24	Remark
4a	Separate dumping of topsoil, OB & mineral reject	Top soil generation –Nil Mineral reject- Nil OB will dump in BF-1	As per proposals.	
4b	Location of topsoil, OB & mineral reject dumps	Dumping of waste generated is proposed to use for Backfilling in BF-1	As per proposals.	
4c	Number of dumps within lease area and outside lease area	03 no of dumps and 1no of Backfilling within the lease area	03 no of dumps and 1no of Backfilling within the lease area	
4d	Location of dumps w.r.t. ultimate pit limit	Dump-1 : 336736E TO 336856E, 24552N TO 2424709N  Dump-2 : 336174E TO 336652E, 2424367N TO 2424840N  Dump-3 : 335563E TO 335755E - 2424880N TO 2425032N	As per proposals.	
4e	Number of active & alive dumps	All dump are dead. Two active back filling.	One active Dump and back-filling at BF-1 at exhausted part of pits.	
4f	Number of dead dumps	3 nos.	3nos.	
4g	Number of dumps stabilised	01 no	01 no	
4h	Whether Retaining wall or garland drain all along dumps are there	Yes	Yes	
4i	Length of Retaining wall or garland drain all along dump	Retaining Wall – maintenance. No Garland drain propose	Retaining Wall - maintained. NA	
4j	Number of settling ponds	Nil	Maintenance (1No.)	
4k	Specific comments of inspecting officer on waste dump management	Management of western part of Overburden Wastes Dump No.2 has not been proper due to non-development of terraces to reduce the dump height and not suitable protective measures to prevent the escape of material therefrom & dump stabilization. Violation pointed out.		

**Solid Waste management-Backfilling**

S.N.	Item	Proposals for, 2023-24	Actual work during 2023-24	Remark
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Proposal has been given for backfilling in BF-1	Backfilling of BF-1 & is continuing.	
5b	Area under backfilling of mined out area	15.94 Ha proposal	15.94 Ha	As per proposal.
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 36)	No proposal	No proposal	
5d	Total area fully reclaimed & rehabilitated	No proposal	Not fully reclaimed & rehabilitated	
5e	General remarks of inspecting officer on backfilling, reclamation etc.			

**Progressive Mine Closure Plan**

SN.	Item	Proposals for, 2023-24		Actual work during 2023-24		Remark
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 26(2).	To be submitted on or before 1 <sup>st</sup> July, 2024		Submitted on time		
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	i) Area available for rehabilitation (ha)	Not proposed	i) Area available for rehabilitation (ha)	Not proposed	
		ii) Afforestation done (ha)	1.5Ha(Dump terrace and gap plantation)	ii) Afforestation done (ha)	1.58 Ha(Dump terrace, gap plantation, SZ plantation, On BF-1)	
		iii) No. of saplings planted during the year	3000	iii) No. of saplings planted during the year	5500	
		iv) Cumulative no. of plants	9000	iv) Cumulative no. of plants	20502	
		v) Any other specific method of	NA			
		vi) Cost incurred on watch & care				



	during the year	rehabilitation		v) Any other specific method of rehabilitation	NA	
		vi) Cost incurred on watch & care during the year	1000000	vi) Cost incurred on watch & care during the year	950000	
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 iv) Rehabilitation by making water reservoir v) Any other specific means	i) Voids available for backfilling (L X B X D) ii) Void filled by waste/tailings iii) Afforestation on the backfilled area iv) Rehabilitation by making water reservoir v) Any other specific means	Back filling as per proposal Area proposed- 17.94Ha 335675E-335288E, 2424681N-2424294N Not proposed Not proposed NA	i) Voids available for backfilling (L X B X D) ii) Void filled by waste/tailings iii) Afforestation on the backfilled area iv) Rehabilitation by making water reservoir v) Any other specific means	Back filling as per proposal Area proposed- 16.90Ha 335675E-335288E, 2424681N-2424294N 850nos. Not proposed NA	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	NA NA NA	i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	NA NA NA	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Environmental monitoring Should be done as per CTO,CTE & EC conditions		Environmental monitoring in Core zone and buffer zone was carried out as per the proposals and parameters are within the limit.		
6f	General remarks of inspecting officer on PMCP compliance &					

	progressive closure operations			
--	--------------------------------	--	--	--

### Mineral Conservation

S.N.	Item	Proposals for, 2023-24	Actual work during 2023-24	Remark
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Rom and grade wise mineral dispatch.	Grade wise mineral dispatch.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	By Screening & Crushing.	By Screening & Crushing.	
7c	Different grade of mineral sorted out at mines	+45%Fe	As per proposals	
7d	Any beneficiation process at mines	Proposal for wet screening.	Not yet started.	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues			

### Environment

S.N.	Item	Proposals for, 2023-24	Actual work during 2023-24	Remark
8a	Separate removal and utilization of topsoil (Rule 36)	No top soil generation	No top soil generated.	Because mining operation is confined within broken up area.
8b	Concurrent use or storage of topsoil	NA	NA	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 37)	Dumping of waste generated is proposed to use for Backfilling in BF-1	Overburden and waste rocks are being dumped in BF-1	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original	During course of mining generated overburden/waste, etc rock will be dumped at the proposed dumping yard	As per proposal.	

	use	(BF-1)		
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Phase wise backfilling was proposed to be done in BF-1	Phase wise Back filling has been done as per proposal.	
8f	Baseline information on existence of plantation & additional Plantation done	FY- 2023-24, Nos. of saplings for plantation-3000nos.	FY- 2023-24, 5500 no. of sapling has been planted.  Up to-01.04.2024 20502no. of plants has been planted.	
8h	Water sprinkling on roads to control airborne dust	Water tanker are proposed for dust suppression on haul road. Capacity of tanker-10-20 KL	3 nos of water tanker (10-20 KL) has already been deployed to control dust on haul road.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			

### Compliance of Rule 45

S.N.	Item	COMMENTS		Remarks
9a	Status of submission of Monthly and Annual returns	Regularly submitting the MRs/ARs on-time		Nil
S.N.	Item	Details given in A.R. for the year 2023-24	Observation of Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mines Manager: Shri S.K. Panda Mining Engineer: Shri Sanjaya kumar Prusty Geologist: Shri Pritam Keshari Patra	Actual also as per AR.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under pits: 48.31 Ha Reclaimed area/waste dumps: 15.94 Ha	Actual also as per AR.	
9d	Scrutiny of Annual return on afforestation	5500 nos	Actual also as per AR.	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Nil	Actual also as per AR.	

9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM stock: 19879 tonne	Actual also as per AR.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex Mine price:1079.33/tonne Production cost:6013.35/tonne	Appear to be correct.	
9i	Scrutiny of Annual return on fixed assets	40814638 rupees	Appear to be correct.	
9k	Scrutiny of Annual return on mining machineries	Rock breaker: 2 nos. Back Hoe: 9 nos; Blast Hole Drill: 3 nos; Rock drill: 6 nos Wheel Loader:3 nos; Dozer: 2 nos Dumpers (35 T):35 nos ; Crusher: 1nos; Generator: 4 nos; pumps: 4 nos	Appear to be correct.	

Date: 21.02.2025

Sujit Kumar Jena  
Junior Mining Geologist