MCDR-MiFLOFE/13/2022-BBS-IBM_RO_BBS MCDR INSPECTION REPORT

I/12309/2023 Name of the Mine: KJST Iron, Manganese & Bauxite mine, of Sri Prabodh Mohanty, 300RI13005
 Name of the Inspecting Officer : Shri B L Gurjar, RCOM & Shri Sanjay Kumar Mahapatra, AME
 Name of the accompanying official: Sri Prabodh Mohanty, Mine Owner
 Date of Inspection: 22.06.2023.

S. N.	Particulars	Details
1	Name of the Mine	KJST Iron, Manganese & Bauxite mine.
2	Total Lease Area (Ha) with breakup of Non- forest and forest land	Lease Area 188.268 Ha. Forest Area 188.268 Ha. Non-forest Nil Area
3 4	Minecode IBM Registration Number under rule 45 of MCDR, 1988	30ORI13005 IBM/135/2011
5	Name of the lessee, Address, phone, email and fax number	Sri Prabodh Mohanty, Weigh Bridge Road, Post Box No.21, PO: Barbil,Pin:758035, Dist: Keonjhar, Odisha, Phone No.9437197242, E-mail:snmbbl@gmail.com
6 7 8 9 10 11 12 13 14 15 16 17	Village Taluka/Mandal District Pincode State Post office Nearest police station Nearest Railway station Date of Grant of Mining Lease Date of Execution Date of pening of Mine Date of first Renewal, if applicable and its period & expiry	Jaldihi Koira Sundargarh 770048 Odisha Dengula Koira Barsuan 27.11.1986 20.01.1987 23.03.1987 Lease has been executed over 188.268ha (as per MMDR amendment Act.2015 for 50 years) up to 19.01.2037
18	Date of second Renewal, if applicable and its	Not Applicable
19	period & expiry 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	Sri Prabodh Mohanty, Weigh Bridge Road, Post Box No.21, PO: Barbil,Pin:758035, Dist: Keonjhar, Odisha, Phone No.9437197242, E-mail:snmbbl@gmail.com Date of appointment:11.03.1999
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Sri T.C Sei, Weigh Bridge Road, Post Box

I/12309/2023 Dist: Phone E-main	IBM_RO_BBS No.21, PO: Barbil,Pin:758035, Dist: Keonjhar, Odisha, Phone No.9437062149, E-mail:snmbbl@gmail.com Date of appointment: 19.3.2005	
phone, email, fax number and date of E-ma appointment in mines Date At/Po	Pyar Mohammad, ail:snmbbl@gmail.com e of appointment:07.10.2008, Po-Koira, Sundergarh,Odisha No.:9437401313	
total experience with Address, phone, email, fax number and date of appointment in mine At/Po	Brundaban Samal BE.Mining e of appointment.20.10.2008 Po-Koira, Sundergarh,Odisha No 9439346793	
experience with Address, phone, email, fax number and date of appointment in mine At/Po	Manash Ranjan Parida, ail:snmbbl@gmail.com e of appointment :07.07.2017 Po-Koira, Sundergarh,Odisha No 9437167501	
25 Whether Geologist and Mining Engineer Yes appointed in mines satisfy the rule 55& carrying out their duties as per rule 56 & 57.		
	P/A/17-ORI/BHU/2020- 957 Date:20.10.2020	
27 Mineral(s) granted in lease and proved for mining Iron 8	& Bauxite	
28 Method of Mining(Opencast, Underground) Open	ncast	
29 Category (Fully Mechanised, Others or Manual) Fully	y Mechanized	
30 Captive/Non Captive Non	Captive	

Exploration

S.N.	Item	Proposals for,2022-23	Actual work during 2022- 23	Remark
1a	Backlog of previous year	50 for the year 2021-22	Total 55 boreholes completed in this FY-2022- 23.	Exploration completed.
1b	Exploration over lease area for Geological axis 1 or 2.	G-1	G-1	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Not specified.	Gemco-Kati Exp Rs.5264511.00	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No	Entire area already explored	Entire area already explored
1e	Balance reserves as per latest approved document	27069036 Tones	2404600 Tones production during 2022-23	-
1f	General remarks of inspecting officer on geology, exploration etc.	Entire area already explored		

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I/12309/202 Development						
1, 12003, 2020	S.N	Item	Proposals for, 2022-23	Actual work during 2022- 23	Remark	
	2a	Location of development w.r.t. lease area	628W-258W, 434N-571S & 00- 440E 290N-750N & Bauxite Quarry in Southern Part of the Lease.	640W-256W, 441N-600S	During inspection it is observed that one quarry is developed Other 02 quarries were not operated during the year 2022- 23.	
	2b	Separate benches in topsoil, overburden and mineral (Rule 15)	-	-	Separate bench for Top soil not there as thin layer in the top is available.	
	2c	Stripping ratio or ore to OB ratio	1:0.22 (T/M ³)	1: 0.15 (T/ M ³)		
	2d	Quantity of topsoil generation in m3	5810 m ³	2010 m ³		
	2e	Quantity of overburden generation in m3	617940 m ³	378369.13 m ³		
	2f	General remarks of inspecting 1 . officer on development of pit w.r.t. type of deposit etc	Violation I MCDR-MiFL0FE/13 dated 28.06.202	3 as it was	RO_BBS proposed for	

MCDR-MIFLOFE/13/2022-BBS-IBM_RO_BBS dated 28.06.2023 as it was proposed for production from Three (03) nos of pits (quarry) during the year 2022-23. During inspection it is observed that the entire production carried from one quarry. Other 02 quarries were not operated during the year 2022-23

EXPLOITATION

Sl no	Item	Proposals for, 2022-23	Actual work during 2022-23	Remark
Зa	Number of pits proposed	Three (Bxt-1No.	One	During
	for production	Iron-2 Nos)		inspection it
				is observed
				that one
				quarry is
				developed.
				Other 02

Other 02 quarries were not operated

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during the year 2022-23.

3b	Quantity of ROM mineral production proposed	Iron:2800 Tones, Bauxite:3		Iron:24046 0 Tones Bauxite: Ni		
Зс	Recovery of salable/usable mineral from ROM production	Tones Iron:2266 Tones Bauxite:3 Tones		Iron:221460 Tones Bauxite: Ni		
3d	Quantity of mineral reject generation	Iron:5337 Tones	00.000 002 Tones	Iron:19000 Tones Baux Nil		
Зе	Grade of mineral reject generation and threshold value declared	Iron :+459 Bauxite: 30	% Fe	Iron: 54.319 Bauxite: -	% Fe.	
3f	Quantity of sub-grade mineral generation	Iron:5337 Tones Bauxite:2	00.000 002 Tones	Iron:19000 Tones Baux Nil		
3g	Grade of sub-grade mineral generation	Iron :+45% Bauxite: 3	% Fe	Iron: 54.319 Bauxite: -	% Fe.	
3h	Manual / Mechanised method adopted for segregating from ROM		ed method		d	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No Propos	al	Nil		
Зј	Provision of drilling & blasting in mineral benches	Wagon dri Machinery 100m) & F	(Dia-	Wagon drill Machinery (100m) & Bl		
3k	Provision of mining machineries in mineral benches	Excavator:	(0.9m ³ to th ,Dumper: T)	Excavator :(to 3.3 m ³) wi Dumper: (25 35 T) combi	0.9m ³ ith, 5T to	
31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	8 Meters		Yes		
3m	Total area covered under excavation/pits	42.56 Ha		36.74 Ha		
3n	Ore to OB ratio for the pit/ mine during the year	1:0.22 (T	′M³)	1:0.15 (T/	′M³)	
Зо	Total area put in use under different heads at the end of year	87.84Ha		77.639Ha		
Зр	Production of ROM mineral during last six- year period, as applicable	Iron (T)	Bauxite (T)	Iron (T)	Bau xite (T)	
	2016-17 2017-18	1950130	50076	1896148.8 09	0.00 0	2016-17
	2018-19	2000110	70044	1950069.1 58	0.00 0	2017-18

MCDR-MIFLOFE/13/2022-BBS-IBM RO BBS					
2018-19					
2019-20					
2020-21					
2021-22					
2022-23					

3qGeneral remarks of
inspecting officer on
method of1.Violation letter was issued vide letter No :
MCDR-MiFL0FE/13/2022-BBS-IBM_RO_BBS dated
28.06.2023 as it was proposed for production from
Three (03) nos of pits (quarry) during the year 2022-
23. During inspection it is observed that the entire
production carried from one quarry. Other 02 quarries
were not operated during the year 2022-23. Bauxite
production is NIL during the year 2022-23.

Solid Waste management-Dumping

S.N	Item	Proposals for, 2022-23	Actual work during 2022- 23
4a	Separate dumping of topsoil, OB & mineral reject (Rule 33, 37)	Proposal for separate dumping is there	Topsoil, OB & mineral reject are separately stacked in the earmarked area as per Scheme of mining.
4b	Location of topsoil, OB & mineral reject dumps	OB 157E-438E, 556N- 280N Mineral Reject 613W-744W 586S-471S Top Soil- 88N-107N 1313W-1295W	OB- 181E-323E, 528N-277N Mineral Reject 653W-879W 679S-458S Top Soil- 88N-107N 1313W-1295W
4c	Number of dumps within lease area and outside lease area	Within lease : one, outside lease : Nil	Within lease : one, outside lease : Nil
4d	Location of dumps w.r.t. ultimate pit limit	157E-438E, 556N- 280N	181E-323E, 528N-277N
4e	Number of active & alive dumps	ONE	ONE
4f	Number of dead dumps	NIL	NIL
4g	Number of dumps stabilized	NIL	NIL
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	240X2X2 M	318X2X2 M
4j	Number of settling ponds	No Proposal	NIL
4k	Specific comments of inspecting officer on waste dump management		nd drain all along dumps has ained properly.

Solid Waste management-Backfilling

S.N	Item		Proposals for, 2022-23	Actual work during 2022-23	Remark
5a	Status on part or full extractio mineral from mined out area before starting backfilling	n of	0.353 Ha	2022-23 Nil	Violation issued vide letter dated 28.06.2023
5b	Area under backfilling of min	ed	No proposal	Nil	20.00.2025
5c	out area Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 36)	-	5810 M ³	2010M ³ is utilized for plantation	
5d	Total area fully reclaimed & rehabilitated		No proposal	Nil	
5e	General remarks of inspecting officer on backfilling, reclama etc	-			
Prog	ressive Mine Closure Plan				
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 26(2).	Is the	ere	Yes	
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 P	roposal	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 the	for b B X I :0.35 ii) Vo waste	oids available ackfilling (L X D) 53 ha, oid filled by e/tailings: 0.120,	 i) Voids avail for backfilling X B X D) : NIL, ii) Void filled t waste/tailings: iii) Afforestat 	g (L Dy NIL,
	backfilled area iv) Rehabilitation by making water reservoir v) Any other specific means	the b	ackfilled area : roposal	on the backfil area : Nil,	
	., my other opecatic means	,	ehabilitation by ng water	iv) Rehabilita by making wa	

	MCDR-MiFLOF	M_RO_BBS reservoir :NIL		
I/12309/2023 6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	Proposal No Proposal	NIL	
6е	Compliance of Environmental monitoring (core zone & buffer zone)	Quarterly monitoring of (core zone and buffer zone)	monitoring both at core zone and buffer zone	
6f	General remarks of inspecting officer on PMCP compliance & progressive closure operations	Violation letter was issued vide letter No : MCDR- MiFL0FE/13/2022-BBS-IBM_RO_BBS dated 28.06.2023 as it was proposed for backfilling of 0.353 ha during the year 2022-23. However during inspection it is observed that, no backfilling has been carried out within the proposed backfilling area.		

Mineral Conservation

7a	ROM Mineral dispatch or grade-wise sorting within lease area	Proposal for sorting of minerals mechanically	By crushing & Screening
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanical	Mechanical
7c	Different grade of mineral sorted out at mines	Proposal is there	Different grade of mineral are sorted size-wise by crushing and screening.
7d	Any beneficiation process at mines	No Proposal	Nil
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Different grade of mineral are sorted size-wise crushing and screening.	
Environ			
S.N.	Item	-	Actual work during 2022-23
8a	Separate removal and utilization of topsoil (Rule 36)	5810 M ³	The top soil collected has already been utilizes for plantation of 2010 m ³
8b	Concurrent use or storage of topsoil	-	2010 M ³ utilized for plantation & 120 m ³ balance stacked

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1/12309/2023 ^{8C}	Separate dumps for overburden, waste rock, rejects and fines (Rule 37)	Yes	Yes	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	Separate Stacking	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No Proposal	No rehabilitated area has been disturbed.	
8f	Baseline information on existence of plantation & additional Plantation done	No Proposal	5500 nos.	Gap plantation in safety zone
8h	Water sprinkling on roads to control airborne dust	Proposal	Water Tanker static sprinkling system exist for dust suppression	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Environmen	tal protection by plantat	ion carried.

Compliance of Rule 45

S.N	Item	COMMENTS
•		
9a	Status of submission of	M.R. Submitted up to May 2023 in time.
	Monthly and Annual	A.R. for 2022-23 was not due for
	returns	submission on date of inspection. Hence no
		scrutiny carried during inspection.

10. Drone Survey Information and data thereof. Drone data submitted in the on-line portal. To be scrutinized after 07.07.2023 after activation for downloading of the submitted drone data.

MCDR-MiFLOFE/13/2022-BBS-IBM_RO_BBS Rule Nature of violations observed		
	Rule	Nature of violations observed
I/12309/202	β No	
	<u>Rul</u> <u>e</u> <u>11(1</u>)	 Mining operations in the mining lease are not being carried out in accordance with as per the proposal given in approved Modification of review of Mining plan dated 20.10.2020 to the extent given below; i) It has been proposed for production from Three (03) nos of pits (quarry) during the year 2022-23. However during inspection it is observed that the entire production carried from one quarry. Other 02 quarries were not operated during
		 the year 2022-23. ii) It has been proposed for 34008 tons of Bauxite production during FY 2022-23, However during inspection it is observed that, Bauxite production is NIL during the year 2022-23. iii) It has been proposed for backfilling of 0.353 ha during the year 2022-23. However during inspection it is observed that, no backfilling has been carried out within the proposed backfilling area.

(B L GURJAR) Regional Controller of Mines