MCDR-MiFLOFE/12/2022-BBS-IBM_RO_BBS MCDR INSPECTION REPORT

1/28715/2024 Name of the Mine: Roida II Iron Ore Mines, of M/s Narbheram Power And Steel Private Ltd, 30ORI08124

Name of the Inspecting Officer : Shri Sanjay Kumar Mahapatra, ACOM

Date of Inspection: 04.03.2024.

Name of the accompanying official: Sri Sadananda Rana(Mines Agent), Sri Prasanta Kumar Mohanty(Mines Manager) and Sri Atanu Bandopadhyay(Geologist).

Gener	al	
S.	Particulars	Details
	r di li Cuidi S	Detalls
N.		
1	Name of the Mine	Roida II Iron Ore Mines
2	Total Lease Area (Ha) with breakup of Non-	Lease Area: 74.702 Ha (as per
	forest and forest land	DGPS Survey & 74.867 Ha as
		per RoR)
		Non-Forest Land: 3.802 Ha (as
		per DGPS Survey & 3.832 Ha as
		per RoR)
		Forest Land: 70.900 Ha (as per
		DGPS Survey & 71.035 Ha as
		per RoR)
3	Minecode	300RI08124
4	IBM Registration Number under rule 45 of	IBM/4329/2011
_	MCDR, 1988	
5	Name of the lessee, Address, phone, email and	M/s Narbheram Power And Steel
	fax number	Private Limited
		Address:
		Narbheram Complex
		Opposite of Barbil Cenema Hall;
		Main Road; Barbil
6	Village	Tanto
7	Taluka/Mandal	Barbil
8	District	Keonjhar
9	Pin code	758035
10	State	Odisha
11	Post office	Barbil
12	Nearest police station	Barbil
13	Nearest Railway station	Barbil
14	Date of Grant of Mining Lease	29.06.2020
15	Date of Execution	29.06.2020
16	Date of opening of Mine	15.10.2020
10	Date of first Renewal, if applicable and its period	Not applicable. Auctioned Lease.;
17	& expiry	Lease valid upto 28.06.2070
18	Date of second Renewal, if applicable and its	Not applicable; Lease valid upto
10		
	period & expiry	28.06.2070
19	Date of submission of renewal application if	Not applicable
10	Mining Operations are continuing under deemed	
	extension	
20		Shri Vishal Atha
20	Name of the Nominated Owner with Address,	
	phone, email, fax number and date of	6th Floor; Avani Signature;
	appointment	91 A/1 Park Street; Kolkata
		West Bengal – 700016
		Phone: 9668560057
		Email: <u>npspl@athagroup.in</u>

21 Name of the Mine Agent with Address, phone, Mr. Sadananda Rana

MCDR-MiFLOFE/12/2022-BBS-IBM_RO_BBS email, fax number and date of appointment Narbheram Complex

I/28715/2024

- 22 Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines
- 23 Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine

24 Name of the Geologist, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine

- 25 Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55& carrying out their duties as per rule 56 & 57.
- 26 Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.
- 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 Iro
- 29 Method of Mining(Opencast, Underground)
- 30 Category (Fully Mechanised, Others or Manual)
- 31 Captive/Non Captive

Exploration

S.N.	Item	Proposals for, 2022-23	Actual work during 2022-23	Remark
1a	Backlog of previous year	11	9	
1b	Exploration over lease area for Geological axis 1 or 2.	11	9	During 2023-24, against the

Barbil Main Road; Opposite of Barbil Cenema Hall: Barbil Keonjhar; Odisha – 758035 Phone: 9937227948 Email: npspl@athagroup.in Date of appointment: 27.10.2020 Mr. Prasanta Kumar Mohanty, Narbheram Complex Barbil Main Road; Opposite of Barbil Cenema Hall; Barbil Keonihar; Osidha – 758035 Phone: 7752011137 Email: npspl@athagroup.in Date of appointment: 01.06.2020 Mr. Sanjay Samal, B.Tech -Mining Engineer; 15 years's experience Narbheram Complex Barbil Main Road; Opposite of Barbil Cenema Hall; Barbil Keonjhar; Osidha – 758035 Phone: 8763029709 Email: npspl@athagroup.in Date of appointment: 01.06.2020 Mr. Atanu Bandopadhyay, M.Sc – Geology; 12 years' experience. Narbheram Complex Barbil Main Road; Opposite of Barbil Cenema Hall; Barbil Keonjhar; Osidha – 758035 Phone: 9692688641 Email: <u>npspl@athagroup.in</u> Date of appointment: 01.06.2020 Yes Mining Plan approved on

Modified Mining Plan approved on 31.05.2021

Iron Ore

11.11.2020

Opencast Fully Mechanized Captive

	MCDR-MiFLOFE/1	2/2022-BBS-IBI	M_RO_BBS	proposal
l/28715/2024				proposal of 11 BHs, 13 BHs have been explored.
1c	Exploration Agency & Expenditure in lakh Rupees during the year	3780400		
1d	Balance area to be explored to bring Geological axis in 1 or 2	12.190 (Area explored under G2 & rest under G1)	8.30 (Area explored under G2 & rest under G1)	As per proposal, exploratio n is being done to cover the total area under G1 category
1e	Balance reserves as per latest approved document	200773.820 T	14,804,725.000	
1f	General remarks of inspecting officer on geology, exploration etc.	11967863.32 T. I updated based on Violation of data issued on 12.03.2 BHs, 13 BHs hay Thus the backlog	4, the balance Reserved to the reserved recently carried out recently carried out Rule 12(4B) of MC 2024. Against the prove been explored du of 2022-23 has been issued in this regar	ve is not at exploration. CDR 2017 roposal of 11 ring 2023-24 . en covered
Dev	elopment			
S.N 2a	Location of development w.r.t.	Proposals for, 2022-23	Actual work during 2022-23 Quarry-6	Remark
2α	lease area	Quarry-6 E 330800 to E 331410 / N 2438420 to N 2438040	: N 2438422.3588- N 2437990.2851/ E 331525.1014- E 330755.5532	Quarry – 6 As proposed.
		Quarry-2 E 331540 to E 331770 / N 2437940 to N 2437640	Quarry-2 : N 2437991.6112- N 2437343.7575/ E 331916.5214- E 331532.0286	Quarry – 6 Less production from this quarry but worked within proposal
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	No Benches in Top Soil Quarry-6	No Benches in Top Soil Quarry-6	

MCDB-MIELOFE/12/2022-BBS-IBM BO BBS

	MCDR-MiFLO	FE/12	2/2022-B Mineral-2	BS-IBM_RO_BBS	
l/28715/2024			OB-9 Quarry-2 Mineral-6 OB-2		
2c 2d	Stripping ratio or ore to OB Quantity of topsoil generation m3		1:0.0859 NIL	1:0.05562 NIL	
2e	Quantity of overburden generation in m3		300800	79883.07	
2f	General remarks of inspectin officer on development of pi w.r.t. type of deposit etc		developm was obse	ration & dumping lea nent in Quarry-2. Du rved and violation of 017 issued on 12.03.	ring inspection it f Rule 11(1) of
EXPI	LOITATION				
N.	Item	Prop 2022	osals for, -23	Actual work during 2022-23	Remark
За	Number of pits proposed for production	2		2	Quarry – 6 Less production from this quarry but worked within proposal
3b	Quantity of ROM mineral production proposed	3499	940	2872227.900	
Зс	Recovery of salable/usable mineral from ROM production			2872227.900	
3d	Quantity of mineral reject generation	5451	30	461773.890	
Зе	Grade of mineral reject generation and threshold value declared	Three	5% Fe shold e=45% - Fe	52.30% Fe Threshold value=45% - 55% Fe	
3f	Quantity of sub-grade mineral generation	NIL		NIL	
3g	Grade of sub-grade mineral generation	NIL		NIL	
3h	Manual / Mechanised method adopted for segregating from ROM	Mecl	hanized	Mechanized	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	prope only prope total	blending osed for	Total sub-grade generated has been blended	
3j	Provision of drilling & blasting in mineral benches	Drill mm/ Blast	: 125.4 day ting: 80m3	Drill: 103 mm/ day Blasting: 3,80,100m3 (year)	
3k	Provision of mining machineries in mineral benches			As per proposal.	
31	Whether height of benches in overburden and mineral		Yes	Yes	

MCDR-MiFLOFE/12/2022-BBS-IBM_RO_BBS suitable for method of					
1/28715/202	4	mining proposed in			
17 207 137 2024		MP/SOM			
	3m	Total area covered	Quarry-6	Quarry-6	
		under excavation/pits	22.9869 Ha.	21.962Ha.	
			Quarry-2	Quarry-2	
	0		15.4831Ha	14.5831 Ha	
	3n	Ore to OB ratio for the pit/	1:0.01718	1:0.05562	
	C	mine during the year			
	30	Total area put in use under			
		different heads at the end of			
		year Mining	38.470	36.945	
		Mineral storage	10.871	10.046	
		Mineral Separation plant,	10.071	10.040	
		Roads & Infrastructure			
		(Workshop, administrative			
		building etc.)	6.142	6.142	
		OB/waste dump	11.369	11.369	
	Зр	Production of ROM			
		mineral during last six-year			
		period, as applicable			
		2018-19	NA	NA	
		2019-20	NA	NA	
		2020-21	1710490.000	1526679.19	
		2021-22	3499750.000	2400428.56	
	D -	2022-23	3499940.000	2872227.900	
	Зq	General remarks of		ench height and width has not been	
		inspecting officer on method of	1	proposed. The height is more than 06	
			meters and width is also less It was observed that faces are not developed as per the proposal. The mine		
			-	production proposals in Quarry No-2	
			-	carried out as per the proposal during FY	
				ion of rule 11(1) of MCDR 2017 issued	
			on 12.03.2024.		

Solid Waste management-Dumping

S.N.	Item	Proposals for, 2022-23	Actual work during 2022- 23	Remark
4a	Separate dumping of topsoil, OB & mineral reject (Rule 33, 37)	Top soil Nil, as one single Dump for OB/ Waste as there is no top soil	01 Dump for OB/Waste as there is no top soil	No top Soil.
4b	Location of topsoil, OB & mineral reject dumps	N2437840- N2437740 E331760- E332110	N2438169.617 - N2437654.839 5 E332108.9725 - E331736.4725	It was observed that the dump terraces height is more than 20 meters against the proposal of 11 meters height.
4c	Number of dumps within lease area and outside lease area	1	1	
4d	Location of dumps w.r.t. ultimate pit limit	Outside UPL	Outside UPL as per	On verification of last year

l/28715/2024	MCDR-MiFLOFE/	12/2022-BBS-I	BM_RO_BBS approved document.	exploration during inspection, it is observed that there exists mineral under some portion of
4e	Number of active & alive	1	1	the dump.
40	dumps	1	T	
4f	Number of dead dumps	NIL	NIL	
4g	Number of dumps stabilished	NIL	Partly stabilized	
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	NIL	415m	
4j	Number of settling ponds	Maintenance of Settling Ponds	existing 7	
4k Solid	Specific comments of inspecting officer on waste dump management Waste management-Backfilling	the area below of more than 45% Conservation, th propose for exca dump in coming handling of the of MCDR 2017	of last year exploit lump is found cor Fe. Considering M the lessee has been avation of the min g Modification / S dump. Violation u issued as the dum meters against the	taining ore of Aineral advised to teral under the cheme and re under Rule 11(1) terraces height
S N	Item	Proposals for	Actual work	Remark
5.11.	Item	Proposals for, 2022-23	during 2022- 23	
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Backfilling started after ful extraction of mineral from mined out area	full extraction of	L
5b	Area under backfilling of mined out area	0.76 Ha	Nil	Violation under Rule 11(1) of MCDR 2017 issued on 12.03.2024 for not carrying out back filling as proposed
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 36)	NA	NA	No top soil
5d	Total area fully reclaimed & rehabilitated	Nil	Nil	Cumulative 1.571 Ha
5e	General remarks of inspecting	Violation under	r Rule 11(1) of M	CDR 2017 issued

General remarks of inspecting
officer on backfilling,
reclamation etcViolation under Rule 11(1) of MCDR 2017 issued
on 12.03.2024 for not carrying out back filling as
proposed.

MCDR-MiFLOFE/12/2022-BBS-IBM_RO_BBS Progressive Mine Closure Plan

l/28715/2024 N.				
N.	Item	Proposals for, 2022-23	Actual work during 2022-23	Remark
6a	Whether Annual report on	On or before	Submitted on	
	PMCP submitted on time and correctly - Rule 26(2).	30.06.2023	30.06.2023	
6b	Management of			
	worked/mined out benches			
	i) Area available for	Nil	Nil	
	rehabilitation (ha)	Nil	0.450	
	ii) Afforestation done (ha)iii) No. of saplings planted	1111	0.450	
	during the year	2600	6000	
	iv) Cumulative no. of plants			
	 v) Any other specific method of rehabilitation 	7450	16000	
	vi) Cost incurred on watch &	-	-	
	care during the year	Rs. 1,50,000/-	Rs. 5,16,000/-	
6c	Compliance on reclamation	Nil	Nil	Violation
	and rehabilitation by backfilling			under Rule 11(1) of
	i) Voids available for			MCDR 2017
	backfilling (L X B X D)			issued on
	ii) Void filled by			12.03.2024 for
	waste/tailings iii) Afforestation on the			not carrying out back
	backfilled area			filling as
	iv) Rehabilitation by making			proposed.
	water reservoir			
6d	 v) Any other specific means Compliance of Rehabilitation 	Nil	Nil	
Uu	of waste land within lease	1111	1111	
	i) Afforestation			
	ii) Area rehabilitated (ha)			
6e	iii) Method of rehabilitation Compliance of Environmental			All parameters
Ue	monitoring (core zone &			within limit.
	buffer zone)			
	Ambient Air Monitoring	2	2	
	Core: Buffer:	3 2	3 2	
	Fugitive Air Monitoring	2	2	
	Core:	5	5	
	Ground Water Monitoring	2	2	
	Core: Buffer:	2 3	2 3	
	Surface Water Monitoring	5	5	
	Buffer:	3	3	
	Noise Monitoring	G	C	
	Core: Buffer:	6 3	6 3	
6f	General remarks of inspecting	-	orts checked and fo	und that all
	officer on PMCP compliance	parameters within	limit. Violation und	er Rule 11(1) of
	& progressive closure		d on 12.03.2024 for	not carrying out
	operations	back filling as prop	posea.	

Mineral Conservation

L (28745 (2024 S.N.	Item	MCDR-MiFLOFE	/12/2022-BBS Proposals for, 2022-23	-IBM_RO_BBS Actual work during 2022-23	Remark
I/28715/2024 5.14. 7a		ineral dispatch or ise sorting within a	NA	NA	
7b		of grade-wise sorting i.e. manual anical	NA	NA	
7c		t grade of mineral 1t at mines	NA	NA	
7d		eficiation process	NA	NA	Dry beneficiation (crushing & screening) of ROM is practiced.
7e	inspectir Mineral beneficia	remarks of ng officer on conservation & ation issues		at, dry beneficiati OM for sizing of o mines	on (crushing &
Environr	nent				
S.N.	Item		Proposals for, 2022-23	Actual work during 2022- 23	Remark
8a	-	removal and on of topsoil (Rule	NIL	NIL	No top soil.
8b	,	ent use or storage	NIL	NIL	
8c	Separate overburc	dumps for len, waste rock, nd fines (Rule 37)	Yes	Being carried out	01 Dump for OB/ Waste as there is no top soil
8d	rock, rej dumps fo	verburden, waste ects and fines or restoring the ts original use	NIL	NIL	-
8e	reclamat rehabilit affected	estoration, ion and ation of lands by mining ns (Pits, dumps	Yes	NIL	Violation under Rule 11(1) of MCDR 2017 issued on 12.03.2024 for not carrying out back filling as proposed.
8f	existence	information on e of plantation & al Plantation done	2600	6000	Survival rate 90%
8h	Water sp	orinkling on roads ol airborne dust	Yes	Being carried out	Water sprinkling on haul roads has been carried out for control of air borne dust
8i	inspectir aesthetic around n	remarks of ng officer on t beauty in and nines area	The mine is OD has been mainta	•	l aesthetic beauty
Complia	nce of Ru	le 45			

COMMENTS

l/28715/2024	9a	Monthly and Annual	OFE/12/2022-BBS M.R. Submitted upto A.R. Submitted upto		Submitted in time.
	9Ъ	returns Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager: Mr. Prasanata Kumar Mohanty Mining Engineer: Mr. Sanjaya Samal Geologist: Mr. Atanu Bandopadhyay	Mining Engineer Inspection due to Emergency, howe Manager & Geolo	ever, the Mines
	9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.		As per annual Ret	urn
		(i) Covered under current (O-C) Workings	36.945		
		(ii) Reclaimed- rehabilitated	0.141		
		(iii) Used for waste disposal	11.369		
		(iv) Occupied by plant, buildings, residential, welfare buildings and roads	6.142		
		(v) Used for any other purpose (specify) Mineral storage	10.046		
		(vi) Work done under progressive mine closure plan during the year	1.571		
	9d	Scrutiny of Annual return on afforestation	2600	As per annual Ret	urn
	9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	461773 52.30 % fe	As per annual Ret	urn
	9f	Scrutiny of Annual		As on	
		return on ROM stock and/or graded ore	ROM	01.04.2023	As per annual Return
			Fines 41-55 51-55	966448.030	
			55-58	0.090	
			58-60	18329.594	
			60-62	85870.867	
			62-65	285607.801	
			65+ TOTAL	157021.558 390976.128	
			CLO	0 937805.948	
			55- 55-58		
			58-60	0	
			60-62	8016.950	
			62-65	12895.850	

		MCDR-MiFI	_OFE/12/2022-BBS 65+	-IBM_RO_BBS 19017.00
l/28715/2024	4		TOTAL	2678.320
				0 42698.120
				42050.120
	9g	Scrutiny of Annual	Production cost Rs	As per annual Return
		return on sale value, Ex. Mine price & production	3967.58/Ton Ex Mine Price	
		cost	Fines	
			41-55- 600.00	
			51-55- 1056.00	
			55-58 - 1797.00 58-60 - 3093.00	
			60-62 - 5006.00	
			62-65 - 4564.00	
			Ex Mine Price CLO	
			Below 62% Fe-	
			5759.00	
			62-65 (5*18) - 1364.00	
			62-65 (10*40) -	
	<u>.</u> .	- · · · · ·	1342.00	
	9i	Scrutiny of Annual return on fixed assets	Rs 443114665/-	As per annual Return
	9k	Scrutiny of Annual return on mining machineries	List attached.	

Mine Machinery as per Annual return on mining machineries

Type of Machinery	Capacity of each type of machinery	Unit(in which capacity is reported)	No. of machinery	Electrical/ Non- electrical (specify)
Shovel	3.8	CuM	2	Diesel
Shovel	1.8	CuM	2	Diesel
Shovel	0.9	CuM	11	Diesel
Shovel	0.7	CuM	2	Diesel
Loader (Bucket Capacity)	1.5	CuM	4	Diesel
Loader (Bucket Capacity)	2.5	CuM	5	Diesel
DTH drill	104	mm dia	2	Diesel
Compressor	200	psi	2	Diesel
Rock Breaker BEML-220	-	-	1	Diesel
Dumper	35T	CuM/tonne	35	Diesel
Water Tanker	10000	ltr	3	Diesel
Dozer	264	HP	1	Diesel
Generator	82.5	KVA	1	Diesel
Generator	160	KVA	1	Diesel
Other Non-Elctrical (Mobile Screen	150	TPH	3	Diesel
Plant)	350	TPH	2	Diesel
Crusher Plant	150	TPH	4	Diesel

10. Drone Survey Information and data thereof. Drone survey carried on 26.03.2023

(Sanjay Kumar Mahapatra) Assistant Controller of Mines