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

1/33682/202 General

Gener		
S. N.	Particulars	Details
1	Name of the Mine	Roida II Iron Ore Mines
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	Lease Area: 74.702 Ha (as per 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	Mine code	30ORI08124
3.1	Date of Inspection	10.04.2024
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/4329/2011
5	Name of the lessee, Address, phone, email and fax number	M/s Narbheram Power And Steel 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
17	Date of first Renewal, if applicable and its period	NA; Lease valid upto
	& expiry	28.06.2070
18	Date of second Renewal, if applicable and its period & expiry	NA; Lease valid upto 28.06.2070
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	NA; Lease valid upto 28.06.2070
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri Vishal Atha 6th Floor; Avani Signature; 91 A/1 Park Street; Kolkata West Bengal – 700016 Phone: 9668560057 Email: npspl@athagroup.in
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Mr. Sadananda Rana Narbheram Complex Barbil Main Road; Opposite of Barbil Cenema Hall; Barbil Keonjhar; Odisha – 758035 Phone: 9937227948

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		11051X 1 III 201 27 127 2022 250 151	Email: npspl@athagroup.in
1/33682/202	₄ 22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Mr. Prasanta Kumar Mohanty, Narbheram Complex Barbil Main Road; Opposite of Barbil Cenema Hall; Barbil Keonjhar; Osidha – 758035 Phone: 7752011137 Email: npspl@athagroup.in
	23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	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
	24	Name of the Geologist, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	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: npspl@athagroup.in
	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.	Mining Plan approved on 11.11.2020
	27	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	Modified Mining Plan approved on 31.05.2021
	28	Mineral(s) granted in lease and proved for mining	Iron Ore
	29	Method of Mining(Opencast, Underground)	Opencast
	30	Category (Fully Mechanised, Others or Manual)	Fully Mechanized
	31	Captive/Non Captive	Captive

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,	Actual work	Remark
		2023-24	during 2023-24	
1a	Backlog of previous year	11(22-23)	9(22-23)	
1b	Exploration over lease area for	14	13	
	Geological axis 1 or 2.			
1c	Exploration Agency &	5232715.310		
	Expenditure in lakh Rupees			
	during the year			
1d	Balance area to be explored to	12.190	8.30	
	bring Geological axis in 1 or 2			

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	1e	Balance reserves as per latest	20077553 T	11647965.3T	
1/33682/202	4	approved document			
1/ 33002/ 202	T1f	General remarks of inspecting		a part of the Bon	
		officer on geology, exploration		f the famous "Hor	
		etc.		alling in Sunderg	
			Keonjhar districts. The Lease was already		ready
			explored broadly in	G1 & G2 by earlier le	essee before
			auction. The explora	ation proposal given ii	n last
			approved document	is not complied.	

Development

S.N	Item	Proposals for, 2023-24	Actual work during 2023-24	Remark
2a	Location of development w.r.t. lease area	Quarry-6 N2438310- N2438040/ E33 0795-E331410	Broadly done within proposed area	
		Quarry-2 N2437940- N2437750/ E331595- E331790		
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	No Benches in Top Soil-Nil Quarry-6 Mineral-13 OB-7 Quarry-2 Mineral-7 OB-2	No Benches in Top Soil-Nil Quarry-6 Mineral-11 OB-9 Quarry-2 Mineral-6 OB-2	Two Quarry i.e. Quarry-6 & Quarry-2
2c	Stripping ratio or ore to OB ratio	1:0787	1:096	
2d	Quantity of topsoil generation in m3	NIL	NIL	
2e	Quantity of overburden generation in m3	275400	305779.06	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc	The quantity of development is more than proposal.		

EXPLOITATION MCDR-MiFL0FE/12/2022-BBS-IBM_RO_BBS

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² N.	Item	Proposals for, 2023-24	Actual work during 2023-24	Remark
3a	Number of pits proposed for production	2	2	
3b	Quantity of ROM mineral production proposed	3499950	3156759.700	
3c	Recovery of salable/usable mineral from ROM production		3156759.700	
3d	Quantity of mineral reject generation	NIL	NIL	
3e	Grade of mineral reject generation and threshold value declared	NIL	NIL	
3f	Quantity of sub-grade mineral generation (Tons)	478440	620050	Sub-grade mineral also dispatch.
3g	Grade of sub-grade mineral generation	53.85% Fe Threshold value = 45% - 55% Fe	50.05% Fe Threshold value = 45% - 55% Fe	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized	Mechanized	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No beneficiation proposed, only blending proposed for total sub- grade mineral	Total sub-grade generated has been blended	
3j	Provision of drilling & blasting in mineral benches	Drill: 125.4 m/ day Blasting: 456480 m3 (year)	Drill: 103 m/ day Blasting: 350751 m3 (year)	
3k	Provision of mining machineries in mineral benches	Yes	Yes	
31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes	
3m	Total area covered under excavation/pits	Quarry-6 23.2569 Ha. Quarry-2 15.9911 Ha	Quarry-6 21.2480 Ha. Quarry-2 15.6970 Ha	
3n	Ore to OB ratio for the pit/ mine during the year	1:0623	1:1191	
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	

MCDR-MiFLOFE/12/2022-BBS-IBM_RO_BBS Mineral Separation plant | 2.000 | 2.000 3.429 3.429 Roads 1/33682/2024 Infrastructure (Workshop, 0.713 0.713 administrative building etc.) 11.369 11.369 OB/waste dump Production of ROM After Auction Зр mineral during last sixyear period, as applicable in Tons 1710490.000 1526679.19 2020-21 3499750.000 2400428.56 2021-22 3499940.000 2872227.900 2022-23 3499950.000 3156759.700 2023-24 General remarks of The method of mining is by opencast using HEMM and 3q inspecting officer on deep hole blasting. method of Mining

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 (Rule 33, 37)	NA, as one single Dump for OB/Waste as there is no top soil	NA, as one single Dump for OB/Waste as there is no top soil	
4b	Location of topsoil, OB & mineral reject dumps	OB Dump N2437840- N2437740/ E331950- E332086	Broadly as per proposal.	
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	
4e	Number of active & alive dumps	1	1	
4f	Number of dead dumps	NIL	NIL	
4g	Number of dumps stabilized	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	17m	
4j	Number of settling ponds	Maintenance of existing 7 Settling Ponds		
4k	Specific comments of inspecting officer on waste dump management	The waste dump manage broadly as per proposal except the proposal of backfilling not complied.		

Solid Waste management-Backfilling

S.N	Item	Proposals for,	Actual work	Remark
		2023-24	during 2023-24	
5a	Status on part or full extraction	Backfilling shall	Backfilling not	

MCDR-MiFLOFE/12/2022-BBS-IBM_RO_BBS of mineral from mined out area | be started after | done as per before starting backfilling full extraction of proposal. 1/33682/2024 mineral from mined out area Area under backfilling of mined 0.76 Ha Nil 5b out area Concurrent use of topsoil for 5c NA NA restoration or rehabilitation of mined out area (Rule 36) 5d Total area fully reclaimed & 1.681 Ha 1.571Ha(Cumulat rehabilitated ive) General remarks of inspecting As the area not exhausted and exploration done 5e officer on backfilling, on that area to prove non-mineralised before backfilling therefore backfilling not done. reclamation etc

Progressive Mine Closure Plan

N.	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).	On or before 30.06.2023	Submitted on 30.06.2023	
6b	Management of worked/mined out benches i) Area available for rehabilitation (ha)	Nil	Nil	
	ii) Afforestation done (ha)	Nil	Nil	
	iii) No. of saplings planted during the year	3000	7124	
	iv) Cumulative no. of plants v) Any other specific method of rehabilitation	8100	23,124	
	vi) Cost incurred on watch & care during the year	Rs. 1,50,000/-	Rs.5,69,920/-	
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	Nil	Nil	
6d	Compliance of Rehabilitation of waste land within lease	Nil	Nil	
	i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation			
6e	Compliance of			The no. of

		MCDR-MiFLOF	E/12/2022-BBS-	IBM RO BBS	
		Environmental monitoring	_,,		monitoring
1/33682/202	4	(core zone & buffer zone)			station
1/ 33002/ 202	ľ	Ambient Air Monitoring			mentioned.
		Core:	3	3	
		Buffer:	2	2	
		Fugitive Air Monitoring			
		Core:	5	5	
		Ground Water Monitoring			
		Core:	2	2	
		Buffer:	3	3	
		Surface Water Monitoring			
		Buffer:	3	3	
		Noise Monitoring			
		Core:	6	6	
		Buffer:	3	3	
	6f	General remarks of	Broadly complied.		
		inspecting officer on PMCP			
		compliance & progressive			
		closure operations			

MCDR-MiFLOFE/12/2022-BBS-IBM_RO_BBS Mineral Conservation

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-	Item	Proposals for,	Actual work	Remark	
S.N.		2023-24	during 2023-24		
7a	ROM Mineral dispatch or grade-wise sorting within lease area	NA	NA		
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	NA	NA		
7c	Different grade of mineral sorted out at mines	NA	NA		
7d	Any beneficiation process at mines	NA	NA		
7e	General remarks of	The material ab	ove threshold being i	used and no	
	inspecting officer on	subgrade major dump observed. In lessee area no			
	Mineral conservation &	beneficiation done except crushing and screening.			
	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)	NIL	NIL	
8b	Concurrent use or storage of topsoil	NIL	NIL	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 37)	All the waste (as prescribed by IBM dumped at designations)	1) are being	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	1.571Ha (Cumula been back filled.	tive) area has	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Reclamation of we benches, where or exhausted.		
8f	Baseline information on existence of plantation & additional Plantation done	Plantation Registe maintained	er is being	
8h	Water sprinkling on roads to control airborne dust	Total 98 numbers water sprinklers hall along the main the mine. In additional water sprinklers as suppress fugitive and other transport water sprinkling at all loading & discharge crushing & screening and the screening of the s		
8i	General remarks of inspecting officer on aesthetic beauty in and	The lessee using water sprinkler for dust suppression along the haul road.		

MCDR-MiFLOFE/12/2022-BBS-IBM_RO_BBS around mines area

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Compliance of Rule 45

S.N	Item	COMMENTS		Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted upto March 2024 A.R. will be submitted for the FY23-24 with in the due date.		
S.N ·	Item	Details given in A.R. for the year 2023-24	Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Yes given	Shri Sanjaya Samal,Mining Engineer,Geologist Shri Atanu Bandopadhyay,Manager Shri Prasant Kumar Mohanty	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Yes given	Under Opencast working-36.945ha.,Waste dumping- 10.981ha.,Infrastructure & Roads 4.688 ha.,Mineral Storage 8.946 ha.	
9d	Scrutiny of Annual return on afforestation	6000 nos reported		
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	620050 Tons.grade 52.3 %Fe & 52.50%Fe		
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM-966448 Tons and graded ore stock also mentioned of various grade of Fines & CLO		
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex.Mine price is mentioned of various grade of fines and lumps. In fines Ex-mine price varies from Rs600 to Rs5006/- and CLO Rs 1342 to 5759/-,COP is Rs 3967/-	The Ex-mine price not mentioned correctly and accordingly violation pointed out.	
9i	Scrutiny of Annual return on fixed assets	Yes given	Rs 443114665	
9k	Scrutiny of Annual return on mining machineries	Yes given	Shovel 3.8,1.8 & 0.9 m3,front end loader, Dumper 35 tons,Drill m/c, water tanker,Dozer	

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