MCDR INSPECTION REPORT

Date of Inspection: 08.11.2024

General

S. N.	Particulars	Details
1	Name of the Mine	Roida II Iron Ore Mines
2	Total Lease Area (Ha) with breakup of Non-forest	Lease Area: 74.702 Ha (as per DGPS
	and forest land	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 MCDR,	IBM/4329/2011
	1988	
5	Name of the lessee, Address, phone, email and fax	M/s. Narbheram Power & Steel Private
	number	Limited
		Address: Narbheram Complex
		Opposite of Barbil Cinema 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 28.06.2070
	& expiry	
18	Date of second Renewal, if applicable and its	NA; Lease valid upto 28.06.2070
	period & expiry	
19	Date of submission of renewal application if	NA; Lease valid upto 28.06.2070
	Mining Operations are continuing under deemed	
	extension	
20	Name of the Nominated Owner with Address,	Sri Vishal Atha
	phone, email, fax number and date of appointment	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,	Mr. Sadananda Rana
	email, fax number and date of appointment	Narbheram Complex
	cinais, iax number and date or appointment	Barbil Main Road; Opposite of Barbil
		Cinema Hall; Barbil
		Keonjhar; Odisha – 758035
		Phone: 9937227948
		Email: npspl@athagroup.in
22	Name of the Mines Manager with Address, phone,	Sri Prasanta Kumar Mohanty,
		1

	email, fax number and date of appointment in	Narbheram Complex
	mines	Barbil Main Road; Opposite of Barbil
		Cinema Hall; Barbil
		Keonjhar; Osidha – 758035
		Phone: 7752011137
		Email: npspl@athagroup.in
23	Name of the Mining Engineer, Qualification and	Sri Sanjay Samal, B.Tech – Mining
	total experience with Address, phone, email, fax	Engineer; 15 years's experience
	number and date of appointment in mine	Narbheram Complex
	and the or appointment in inne	Barbil Main Road; Opposite of Barbil
		Cinema Hall; Barbil
		Keonjhar; Osidha – 758035
		Phone: 8763029709
		Email: npspl@athagroup.in
24	Name of the Geologist, Qualification and total	Sri Atanu Bandopadhyay,
	experience with Address, phone, email, fax number	M.Sc – Geology; 12 years' experience.
	and date of appointment in mine	Narbheram Complex
		Barbil Main Road; Opposite of Barbil
		Cinema Hall; Barbil
		Keonjhar; Osidha – 758035
		Phone: 9692688641
		Email: npspl@athagroup.in
25	Whether Geologist and Mining Engineer appointed	Yes,
25	in mines satisfy the rule 55& carrying out their	Mining Engineer:
	duties as per rule 56 & 57.	Sri Sanjay Samal, B.Tech – Mining
	duties as per rule 30 & 37.	Engineer; 15 years's experience
		Narbheram Complex
		_
		Barbil Main Road; Opposite of Barbil
		Cinema Hall; Barbil
		Keonjhar; Osidha – 758035
		Phone: 8763029709
		Email: npspl@athagroup.in
		Geologist:
		Sri Atanu Bandopadhyay,
		M.Sc – Geology; 12 years' experience.
		Narbheram Complex
		Barbil Main Road; Opposite of Barbil
		Cinema Hall; Barbil
		Keonjhar; Osidha – 758035
		Phone: 9692688641
		Email: npspl@athagroup.in
26	Date of Approval of Mining Plan/Modified Mining	Mining Plan approved on 11.11.2020
20	Plan with five-year period and specific condition in	inining I fail approved on 11.11.2020
	approval letter, if any.	
27	Date of Approval of Scheme of Mining/Modified	Modified Mining Plan approved on
]	Scheme of Mining with five-year period and	31.05.2021
	specific condition in approval letter, if any.	
28	Mineral(s) granted in lease and proved for mining	Iron Ore
29	Method of Mining(Opencast, Underground)	Opencast
		- F

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, 2023- 24	Actual work during 2023-24	Remark
1a	Backlog of previous year	14 Nos during 2023- 24	13 Nos completed during the reporting year 2023-24	Exploration was continued to the current FY in the lease area.
1b	Exploration over lease area for Geological axis 1 or 2.	14 Nos during 2023- 24	13 Nos completed during the reporting year 2023-24	Exploration was continued to the current FY in the lease area.
1c	Exploration Agency & Expenditure in lakh Rupees during the year	NA	M/s. Gemco Kati Exploration Pvt. Ltd Expenditure: Rs. 5232715.310/-	
1d	Balance area to be explored to bring Geological axis in 1 or 2	12.190	8.30	The area has been explored during the current FY and entire potential mineralized area has been explored under G1 level of exploration.
1e	Balance reserves as per latest approved document		Reserve: 17552910 tons	Reserve as on 01.04.2024
1f	General remarks of inspecting officer on geology, exploration etc.	reporting year and the borehole during FY continued to the cur	al of 14 nos of bore lessee could able to 2023-24. However, errent FY in the lease area has been explored	drill 13 nos of exploration was area and entire

	of exploration. As per submitted AR of 2023-24 about
	17552910 tonsof iron ore reserve available in the mine.

Development

Item	Proposals for, 2023-	Actual work during	Remark
	24	2023-24	
Location of development w.r.t.	Quarry-6	Quarry-6:	The lessee has
lease area	N2438310-	N2438422.3588-	carried out the
	N2438040/	N2437990.2851/	development
	E330795-E331410	E331525.1014-	works well
	Quarry-2	E330755.5532	within the
	N2437940-	Q-2:	proposed area
	N2437750/	N2437991.6112-	but could not
	E331595-E331790	N2437343.7575/	achieved the
		E331916.5214-	targeted
		E331532.0286	proposal
			during the
			reporting year.
Separate benches in topsoil,	No Benches in Top	No Benches in Top	
•	Soil	Soil	
15)	<u>Quarry-6</u>	<u>Quarry-6</u>	
		_	
11 0			
- 0	Nil	Nil	
	275 400	205770.06	
	2/5400 	305779.06	
	_		'
• •	development work against the approved proposal during the		
w.i.t. type of deposit etc.	reporting year and the lessee could not achieve the targeted		
	proposal during the reporting year. However, a violation letter		
	under rule 11(1) of MCDR 2017 has been issued vide dated		
	20.12.2024 to the less	ee in this regard.	
	Location of development w.r.t. lease area	Location of development w.r.t. lease area Location of development w.r.t. Quarry-6 N2438310- N2438040/ E330795-E331410 Quarry-2 N2437940- N2437750/ E331595-E331790 Separate benches in topsoil, overburden and mineral (Rule 15) Quarry-6 Mineral-13 OB-7 Quarry-2 Mineral-7 OB-2 Stripping ratio or ore to OB ratio 1:0.0787 Quantity of topsoil generation in m3 Quantity of overburden generation in m3 Quantity of overburden generation in m3 Ceneral remarks of inspecting officer on development of pit w.r.t. type of deposit etc. The lessee has padevelopment work agreporting year and the proposal during the reunder rule 11(1) of N	24 2023-24

Exploitation

Remark

	generation and threshold value	55% Fe & threshold		
	declared	value is 45% of Fe	value is 45% of Fe	
24	Overtity of sub-grade mineral	content.	content.	
3f	Quantity of sub-grade mineral generation	NA	NA	
3g	Grade of sub-grade mineral generation	NA	NA	
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	Not proposed	No such analysis or beneficiation study carried out for sub- grade mineral during the reporting year.	
3j	Provision of drilling & blasting in mineral benches	Deep Hole drilling was proposed keeping depth 6.6m, spacing up to 2.5m, burden 2m & blasting was proposed and few rock breakers will be used for hard Ore breaking.	Nonel type detonator is used in the hole of depth 6.6 m with spacing 2.5m and burden 2m for blasting to control noise and for better fragmentation. The rock breakers is being used for boulder breaking.	
3k	Provision of mining machineries in mineral benches	Deployment of mining machinery is proposed in mineral benches by Shovel Dumper Combination ROM will be excavated and loaded in the 30T/40T dumper by 2.5 m3 to 3.8 m3 excavators.	Deployment of mining machinery are being carried out in mineral benches by Shovel Dumper combination. ROM is excavated and loaded in the 20T dumper by 2.5 m3 to 3.8 m3 excavators.	
31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes, it is proposed to keep the bench height up to 6 mtr for both Ore & OB benches.	Height and width of benches were more or less in order as per the proposal of the approved document.	
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	1:0.0787	1:0.1191	

	during the year		
Зо	Total area put in use under	Mining: 38.470	Mining: 36.945
	different heads at the end of year	Mineral storage:	Mineral storage:
		10.871	10.046
		Mineral Separation	Mineral Separation
		plant: 2.000	plant: 2.000
		Roads: 3.429	Roads: 3.429
		Infrastructure	Infrastructure
		(Workshop,	(Workshop,
		administrative	administrative
		building etc.): 0.713	building etc.): 0.713
		OB/waste dump:	OB/waste dump:
		11.369	11.369
Зр	Production of ROM mineral	2020-21:	2020-21:
	during last six-year period, as	1710490.000	1526679.190
	applicable	2021-22:	2021-22:
		3499750.000	2400428.560
		2022-23:	2022-23:
		3499940.000	2872227.900
		2023-24:	2023-24:
		3499950.000	3156759.700
3q	General remarks of inspecting officer on method of	development work ag reporting year and th proposal during the re	rtially deviated the production and gainst the approved proposal during the e lessee could not achieve the targeted porting year. However, a violation letter ACDR 2017 has been issued vide dated ee in this regard.

Solid Waste Management-Dumping

S.N	Item	Proposals for, 2023-24	Actual work	Remark
4a	Separate dumping of topsoil, OB & mineral reject (Rule 33, 37)	No Top soil generation was proposed. Separate dumping of OB & mineral reject was proposed for the reporting year.	Top soil generation is Nil during the reporting year. Separately dumping of OB, & mineral reject done as per proposal during the reporting year FY 2023-24.	
4b	Location of topsoil, OB & mineral reject dumps	OB Dump: - N2437840- N2437740 E331760- E332110	OB Dump: - N2438169.617- N2437654.8395 E332108.9725- E331736.4725	

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 stabilished	Nil	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there	Yes, No proposal for construction new Retaining wall or garland during the reporting year. Maintenance of already existing Retaining wall or garland drain 2181 m each was proposed.	Yes, No proposal for construction new Retaining wall or garland during the reporting year. Maintenance of already existing Retaining wall or garland drain 2181 m each are being carried out during reporting year FY 2023-24.	
4i	Length of Retaining wall or garland drain all along dump	Yes, No proposal for construction new Retaining wall or garland during the reporting year. Maintenance of already existing Retaining wall or garland drain 2181 m each was proposed.	Yes, No proposal for construction new Retaining wall or garland during the reporting year. Maintenance of already existing Retaining wall or garland drain 2181 m each are being carried out during reporting year FY 2023-24.	
4j	Number of settling ponds	Maintenance of existing 7 Settling Ponds were proposed.	Maintenance of existing 7 Settling Ponds are being carried out.	7

4k	Specific comments of inspecting officer on waste dump management	The lessee has partially deviated the production and development work against the approved proposal during the reporting year and the lessee could not achieve the targeted proposal during the reporting year. However, a violation letter under rule 11(1) of MCDR 2017 has been issued vide dated 20.12.2024 to the lessee in this regard. The lessee has carried out maintenance work of existing retaining wall and garland drain of 2181 mtr. each and existing 7 nos of settling ponds during the reporting yea FY 2023-24.
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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 for backfilling of 82620 cum of waste over 0.76 Ha. of already exhausted area within the lease area.	Nil	
5b	Area under backfilling of mined out area	Proposal for backfilling of 82620 cum of waste over 0.76 Ha. of already exhausted area within the lease area.	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 36)	Nil	Nil	
5d	Total area fully reclaimed & rehabilitated	Nil	Nil	
5e	General remarks of inspecting officer on backfilling, reclamation etc	waste over 0.76 F lease area. The within the lease reporting year. 11(1) of MCDR	posal for backfilling of Ha. of already exhauste lessee has not carrie area as per the pro However, a violation R 2017 has been is lessee in this regard.	ed area within the d out backfilling posal during the letter under rule

Progressive Mine Closure Plan

N	I.	Item	Proposals for,	Actual work	Remark
			2023-24	during 2023-24	
6	a	Whether Annual report on PMCP	As per Rule 26(2)	The lessee has	

	submitted on time and correctly - Rule 26(2).	Annual PMCP report to be submitted before 1st day of July of Every Year.	submitted Annual PMCP report as per Rule 26(2) of MCDR 2017 within the stipulated period during the reporting year FY 2023-24.	
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	i. 0.76 Ha. & 82620 cum ii. Nil iii. Nil iv. Nil v. Nil	i. Nil ii. Nil iii. Nil iv. Nil v. Nil vi. 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 backfilled area iv) Rehabilitation by making water reservoir v) Any other specific means	i. Nil. ii. Nil iii. Nil iv. Nil v. Nil	i. Nil ii. Nil iii. Nil iv. Nil v. Nil	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	i) 1000 nos of saplings ii) Area: 0.10 Ha. iii) Plantation with 95 % survival	i) 1700 nos of saplings during reporting year and cumulatively 6650 saplings ii) Area: 0.116 Ha. iii) Plantation with 90 % survival	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Environmental monitoring in Core zone and buffer zone will be as per MOEFCC and SPCB guidelines.	Environmental monitoring in Core zone and buffer zone were carried out as per MOEFCC and SPCB guidelines during the	

			reporting year FY 2023-24.	
6f	General remarks of inspecting officer on PMCP compliance & progressive closure operations	cum waste during to could not carry our proposal during the reviolation letter under issued vide dated 20. lessee has carried monitoring as per the lessee has carried out 0.116 Ha. @ 90% of FY 2023-24 and cum	al for backfilling of 0 he reporting year, what backfilling back fireporting year FY 202 reporting year FY 202 reporting year FY 202 reporting the lessee is out afforestation are proposal during the report plantation of 1700 not feating and the proposal carried out w.r.o. the proposals.	nereas, the lessee alling as per the 23-24. However, a R 2017 has been in this regard. The add environmental eporting year. The as of saplings over the reporting year gs planted till the

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	Saleable Ore: +54 % Fe, Mineral Reject: - +45 to 54% Fe were proposed.	Saleable Ore:+54 % Fe, Mineral Reject:- +45 to 54% Fe are being carried out.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanical	Mechanical	
7c	Different grade of mineral sorted out at mines	Saleable Ore: +54 % Fe, Mineral Reject: - +45 to 54% Fe were proposed.	Saleable Ore:+54 % Fe, Mineral Reject:- +45 to 54% Fe are being carried out.	
7d	Any beneficiation process at mines	Nil	Nil	No Such proposal during the reporting year.
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Saleable Ore: +54 % Fe, Mineral Reject: - +45 to 54% Fe stocks are being practiced. Further no beneficiation process was proposed. Only crushing and screening are being carried out during the reporting year.		

Environment

S.N.	Item	Proposals for, 2023-24	Actual work during 2023-24	Remark
8a	Separate removal and utilization of topsoil (Rule 36)	No such proposal for the reporting year.		

			been generated and concurrently utilized for plantation purpose till the date of inspection during the reporting year.	
8b	Concurrent use or storage of topsoil	No such proposal for the reporting year.	Incidental occurrence of very small amount of clay soil have been generated and concurrently utilized for plantation purpose till the date of inspection during the reporting year.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 37)	Separate dumps for overburden and mineral reject stacks, waste rocks are proposed.	Separate dumps for overburden and mineral reject stacks, waste rocks are maintained.	All the waste (as per cutoff grade prescribed by IBM) are being dumped at designated OB Dump.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	During course of mining generated overburden /waste, etc. rock will be backfilled over exhausted pits over 0.76 Ha. area with 82620 cum of waste was proposed.	No backfilling was carried out.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	During course of mining generated overburden /waste, etc. rock will be backfilled over exhausted pits over 0.76 Ha. area with 82620 cum of waste was proposed.	No backfilling was carried out.	
8f	Baseline information on existence of plantation & additional Plantation done	About 1000 nos of saplings over 0.10	About 1700 nos of saplings over	11

		Ha. area were proposed to be planted @ with 95% survival rate.	0.116 Ha. area were planted @ with 90% survival rate during reporting year and cumulatively 6650 saplings were planted within the lease area.	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling by water tanker over haul roads has been carried out during the reporting year.	Water sprinkling by water tanker and mobile water sprinklers over haul roads has been carried out by using 2 nos of water tankers and fixed water sprinkler system during the reporting year.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	during the reporting 0.76 Ha. area with backfilled, whereas a reporting year. A vid 2017 has been issue this regard. However saplings over 0.116 cumulatively 6650 area. Water sprink water tanker and muto control the airbot	not carry out proposing year. During the region 82620 cum wasted to backfilling was carrolation letter under ruled vide dated 20.12.20 er, the lessee has placed and to mining by fixed water obile water sprinkler or dust and to mining sustains the aesther	porting year about proposed to be ried out during the le 11(1) of MCDR 24 to the lessee in anted 1700 no of l rate of 90 % & d within the lease sprinkler system, as over haul roads mize the fugitive

Compliance of Rule 45

S.N.	Item	COMMENTS	Remarks
9a	Status of submission of	M.R. Submitted upto September 2024	
	Monthly and Annual returns	A.R. Submitted upto 2023-24	
		Monthly returns and annual return for the	
		reporting year have been submitted within the	
		stipulated time period.	
S.N.	Item	Details given in A.R. for Observation of	Remarks
		the year 2023-24 I/Officer	
9b	Scrutiny of Annual return for	1. Sri Prasanta Kumar 1. Sri Prasanta	
	information on Mining	Mohanty - Mines Kumar Mohanty -	
	Engineer, Geologist and	Manager Mines Manager	

	Manager	2. Sri Sanjay Samal –	2. Sri Sanjay Samal	
		Mining Engineer	– Mining Engineer	
		3. Sri Atanu	3. Sri Atanu	
		Bandopadhyay -	Bandopadhyay -	
		Geologist. were present	Geologist. were	
		during the inspection.	present during the	
		during the inspection.	inspection.	
9c	Scrutiny of Annual return on	Mining: 36.945	Mining: 36.945	
	land use pattern for area	Mineral storage: 10.046	_	
	under pits, reclaimed area,	_	Mineral storage: 10.046	
	_	1		
	dumps etc.	plant: 2.000	Mineral Separation	
		Roads: 3.429	plant: 2.000	
		Infrastructure	Roads: 3.429	
		(Workshop,	Infrastructure	
		administrative building	(Workshop,	
		etc.): 0.713	administrative	
		OB/waste dump: 11.369	building etc.):	
			0.713	
			OB/waste dump:	
			11.369	
9d	Scrutiny of Annual return on	The lessee has planted	The lessee has	
	afforestation	1700 no of saplings	planted 1700 no of	
		over 0.116 Ha. with a	saplings over	
		survival rate of 90 % &	0.116 Ha. with a	
		cumulatively 6650	survival rate of 90	
		saplings were planted	% & cumulatively	
		within the lease area.		
		within the lease area.	6650 saplings were	
			planted within the	
0.0	Counting of Annual votum on	547527.510 tons of	lease area.	
9e	Scrutiny of Annual return on		547527.510 tons of	
	mineral reject generation	mineral reject of +45 to	mineral reject of	
	(Grade & quantity)	54% Fe were generated	+45 to 54% Fe	
		during FY 2023-24.	were generated	
0.0		1 0	during FY 2023-24.	
9f	Scrutiny of Annual return on	Iron Ore:	Iron Ore:	
	ROM stock and/or graded ore	Opening Stock:	Opening Stock:	
		966448.030	966448.030	
		Production:	Production:	
		3156759.700 tons	3156759.700 tons	
		Closing Stock :		
		1826693.230	1826693.230	
9g	Scrutiny of Annual return on	Cost of production Rs.	Cost of production	
	sale value, Ex. Mine price &	4627.68/- furnished in	Rs. 4627.68/-	
	production cost	submitted Annul Return	furnished in	
		for FY 2023-24.	submitted Annul	
			Return for FY	
			2023-24.	
9i	Scrutiny of Annual return on	Fixed Asset:	Fixed Asset: Rs.	
	fixed assets	Rs.387963954/-,	387963954/-,	
		furnished in the annual	furnished in the	
		return of the reporting	annual return of the	
				13

Scrutiny of Annual return on mining machineries			year.	reporting year.	
CUM 2 Non Electrical Opencast SHOVEL	9k	Scrutiny of Annual return on	SHOVEL	SHOVEL	
Opencast SHOVEL (MECHANICAL) 1.800		mining machineries	` ′	'	
SHOVEL					
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