MCDR INSPECTION REPORT

1/7116/2**@eneral**

- General		
Sl. No.	Particulars	Details
1	Name of the Mine	Neelachal Iron Ore Mines
2	Total Lease Area (Ha) with breakup of Non-	Forest – 806.153 Ha
	forest and forest land	Non Forest – 68.137 Ha
		Total - 874.290 Ha
3	Minecode	30ORI13070
4	IBM Registration Number under rule 45 of	IBM/5027/2011
	MCDR, 1988	
5	Name of the lessee, Address, phone, email	Neelachal Ispat Nigam Limited
	and fax number	IPICOL House,
		1 st Floor Annexe Building,
		Bhubaneswar-751022
		Ph- (0674) 2543898, 2543741
		Fax - 2541763
		Email – <u>ninlmines@gmail.com</u>
6	Village	Mithirda
7	Taluka/Mandal	Koira
8	District	Sundargarh
9	Pincode	770048
10	State	Odisha
11	Post office	Patmunda
12	Nearest police station	Koira
13	Nearest Railway station	Nayagarh
14	Date of Grant of Mining Lease	18.02.2009
15	Date of Execution	11.01.2017
16	Date of opening of Mine	06.08.2019
17	Date of first Renewal, if applicable and its	NA
	period & expiry	
18	Date of second Renewal, if applicable and its	NA
	period & expiry	
19	Date of submission of renewal application if	NA
	Mining Operations are continuing under	
	deemed extension	
20	Name of the Nominated Owner with	Sri Sudhir Mehta
	Address, phone, email, fax number and date	Managing Director & CEO
	of appointment	Neelachal Ispat Nigam Limited
		Kalinganagar Industrial Estate
		PO-Duburi, Dist-Jajpur
		Odisha-755026
		Ph- 8658028151
		Email – <u>mdoffice@tsninl.com</u>
		Date of appointment – 09.07.2022
21	Name of the Mine Agent with Address,	Sri P K Mohapatra
	phone, email, fax number and date of	<u>-</u>
	appointment	Neelachal Ispat Nigam Limited
		Mines Division, Lane 3, Shree Vihar,
		Bhalukipatla, Keonjhar – 758001
		Mobile - 9439493993
		Email – <u>ninlmines@gmail.com</u>
		Date of appointment – 19.08.2019

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1,7116,7	22	Name of the Mines Manager with Address,	Sri K Raja Reddy
1/7116/2	2023	phone, email, fax number and date of	AGM (Mines)
		appointment in mines	Neelachal Ispat Nigam Limited
			Mines Division, Lane 3, Shree Vihar,
			Bhalukipatla, Keonjhar – 758001
			Mobile - 9437383776
			Email – <u>ninlmines@gmail.com</u>
			Date of appointment -19.08.2019
	23	Name of the Mining Engineer, Qualification	Sri K Raja Reddy,
		and total experience with Address, phone,	Qualification – BE (Mining), FCC
		email, fax number and date of appointment	Experience – 30 years
		in mine	Neelachal Ispat Nigam Limited
			Mines Division, Lane 3, Shree Vihar,
			Bhalukipatla, Keonjhar – 758001
			Mobile - 9437383776
			Email – ninlmines@gmail.com
			Date of appointment -19.08.2019
	24	Name of the Geologist, Qualification and	Sri Saroj Kumar Mishra,
		total experience with Address, phone, email,	Qualification – M Sc (Geology)
		fax number and date of appointment in mine	Experience – 32 years
		The result of the same of the	Neelachal Ispat Nigam Limited
			Mines Division, Lane 3, Shree Vihar,
			Bhalukipatla, Keonjhar – 758001
			Mobile – 9437059195
			Email – ninlmines@gmail.com
			Date of appointment -19.08.2019
	25	Whether Geologist and Mining Engineer	Yes
	23	appointed in mines satisfy the rule 55 &	168
		carrying out their duties as per rule 56 & 57.	
-	26	Date of Approval of Mining Plan/ Modified	Approved vide 314(3)/2008-MCCM(CZ)/MP-
	20	Mining Plan with five-year period and	Approved vide 314(3)/2008-MCCM(CZ)/MP-53/1086 dated 16.06.2009
		•	
	27	specific condition in approval letter, if any.	(Plan period 2016-17 to 2020-21)
	27	Date of Approval of Scheme of Mining/	Approved vide RMP/A/02-ORI/BHU/2021-22 dated
		Modified Scheme of Mining with five-year	
		period and specific condition in approval	(Plan period 2021-22 to 2025-26)
		letter, if any.	
	28	Mineral (s) granted in lease and proved for	Iron Ore
ļ	•	mining	
	29	Method of Mining (Opencast, Underground)	Opencast
	30	Category (Fully Mechanised, Others or	Fully Mechanised
		Manual)	
	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.)

1/7116/20 Peoploration

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Sl.	Item	Proposals for	Actual work	Remark
No.		2021-22, 2022-23	during 2021-22,	
		(till date)	2022-23 (till	
			date)	
1a	Backlog of previous year	2021-22: 212 nos.	2021-22: 18 nos.	In view of disinvestment of
		2022-23: 291 nos.	2022-23: 48 nos.	NINL and Covid pandemic
			(continuing)	issues exploration could not
				be completed. Violation
				issued.
1b	Exploration over lease area for			Exploration is under
	Geological axis 1 or 2.			progress with 2 nos drill
1c	Exploration Agency &	(i) M/s World	18 boreholes	rigs.
	Expenditure in lakh Rupees	Consultancy	comprise of	
	during the year	Services, BBSR –	1000mtrs.	
		Rs.57,82,000/-		
		(ii) M/s Gemco	48 boreholes	
		` ′		
		Kati, Nagpur	comprise of	
1.1	Deleges area to be explored to	617.62 Ha	1583 mtrs.	
1d	Balance area to be explored to	617.63 Ha	100 ha apprx	
1	bring Geological axis in 1 or 2	152 20 M'II'	T. '11 1	
1e	Balance reserves as on	153.29 Million	It will be	
	01.04.2021	Tonnes	reassessed after	
			completion of	
			exploration.	

Development

	opinent .			
Sl.	Item	Proposals for	Actual work	Remark
No.		2021-22, 2022-23	during 2021-22,	
		(till date)	2022-23 (till date)	
2a	Location of development w.r.t.	Mithirda	Mithirda	
	lease area			
2b	Separate benches in topsoil,	NA	Nil	
	overburden and mineral (Rule			
	15)			
2c	Stripping ratio or ore to OB	1: 0.054		
	ratio			
2d	Quantity of topsoil generation in	2021-22: Nil	2021-22:300 m3	
	m3	2022-23: Nil	2022-23:100 m3	
2e	Quantity of overburden	2021-22: 105892.2	2021-22:16621m3	
	generation in m3	2022-23: 106432.35	2022-23: 49707 m3	

EXPLOITATION

LUITATION			
Item	Proposals for 2021- 22, 2022-23	Actual work during 2021-22, 2022-23	Remark
	(till date)	(till date)	
Number of pits proposed for	2021-22 : 1	2021-22 : 1	
production		1	
~			
1			
	43-33 /0 1 C	43-33 /0 1 C	
	2021-22: 114716 T	2021-22: 0	
	2022-23: 115301 T	2022-23:0	
Grade of sub-grade mineral generation	45-55% Fe	45-55% Fe	
Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	
Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	NA	NA	
Provision of drilling & blasting in mineral benches	Proposed		Obtained permission under Reg No.106(2)(b) of MMR 1961
Provision of mining machineries in mineral benches	Proposed		Permission obtained for deployment of HEMM under Reg No.106(2)(b) of MMR 1961
Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes	
Total area covered under excavation/pits	20.94	5 ha	
Ore to OB ratio for the pit/mine during the year	1:0.054		
Total area put in use under different heads at the end of year	68.47	6 ha	
Production of ROM mineral during last six-year period, as applicable 2016-17 to 2020-21 2021-22	9400380 1950181	54 226040	
	Number of pits proposed for production Quantity of ROM mineral production proposed Recovery of salable/usable mineral from ROM production Quantity of mineral reject generation Quantity of sub-grade mineral generation Grade of sub-grade mineral generation Grade of sub-grade mineral generation Manual / Mechanised method adopted for segregating from ROM Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject Provision of drilling & blasting in mineral benches Provision of mining machineries in mineral benches Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM Total area covered under excavation/pits Ore to OB ratio for the pit/mine during the year Total area put in use under different heads at the end of year Production of ROM mineral during last six-year period, as applicable 2016-17 to 2020-21	Number of pits proposed for production Quantity of ROM mineral production Proposed Proposed Production Proposed Provision Proposed Pr	Item Proposals for 2021- 22, 2022-23

1/7116/2 Solid Waste management-Dumping

Sl.	Item	Proposals for 2021-	Actual work	Remark
No.		22, 2022-23	during 2021-22,	
		(till date)	2022-23 (till	
			date)	
4a	Separate dumping of topsoil, OB	Proposed	Stacked	
	& mineral reject (Rule 33, 37)		separately	
4b	Location of topsoil, OB &			
	mineral reject dumps			
4c	Number of dumps within lease	Within ML – 1	Nil	Used mostly for road
	area and outside lease area	Outside ML - Nil		making & basement
				preparation
4d	Location of dumps w.r.t. ultimate	1km away from	Not dumped so	
	pit limit	proposed quarry	far	
4e	Number of active & alive dumps	Nil	Nil	
4f	Number of dead dumps	Nil	Nil	
4g	Number of dumps stabilized	NA	NA	
4h	Whether Retaining wall or	Proposed	Not yet	
	garland drain all along dumps are		developed	
	there			
4i	Length of Retaining wall or	Proposed	Not yet	OB dump and Mineral
	garland drain all along dump	250m	developed	Reject dump not created
4j	Number of settling ponds	Proposed	Not yet	so far.
		2 nos	developed	

Solid Waste management-Backfilling

DUILLE	Waste management-backining			
Sl.	Item	Proposals for 2021-	Actual work	Remark
No.		22, 2022-23	during 2021-22,	
		(till date)	2022-23 (till	
			date)	
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Nil	Nil	
5b	Area under backfilling of mined out area	Nil	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	

1/7116/2 Progressive Mine Closure Plan

	essive Mine Closure Plan		1	
Sl. No.	Item	Proposals for 2021-22, 2022-23 (till date)	Actual work during 2021-22, 2022-23 (till date)	Remark
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 26(2).		Submitted upto 2021-22	
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	Nil	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	Nil	Nil	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	Nil	Nil	
бе	Compliance of Environmental monitoring (core zone & buffer zone)	Proposed	Being carried out regularly through an NABL accredited agency	

Mineral Conservation

1.7446.4	/7116/20281. Item Proposals for Actual work Remark							
1//116/	20431.	Item	Proposals for	Actual work	Remark			
	No.		2021-22, 2022-23	during				
			(till date)	2021-22, 2022-				
				23 (till date)				
	7a	ROM Mineral dispatch or gradewise sorting within lease area	Nil	Nil				
	7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Nil	Nil				
	7c	Different grade of mineral sorted out at mines	Nil	Nil				
	7d	Any beneficiation process at mines	Nil	Nil	Crushing and screening of ROM is being done.			

Environment

Sl.	Item	Proposals for	Actual work	Remark
No.		2021-22, 2022-23	during 2021-22,	
		(till date)	2022-23 (till	
			date)	
8a	Separate removal and utilization of topsoil (Rule 36)	NIL	400 m3	Stacked separately for use during gardening & afforestation
8b	Concurrent use or storage of topsoil	NIL		
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 37)	Proposed	Being Stacked	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Proposed to use overburden for road making as and when required.		Used mostly for road making & basement preparation
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Proposed	Nil	
8f	Baseline information on existence of plantation & additional Plantation done	2021-22: 800 2022-23: 800	2021-22: Nil 2022-23: 2995	Planted within safety zone
8h	Water sprinkling on roads to control airborne dust	Proposed	Being done over haul roads with 2 nos of water tankers (12KL each)m	

1/7116/2023

Compliance of Rule 45

Sl.No.	Item	COM	MENTS	Remarks
9a	Status of submission of	M.R. Submitted upto	31.12.2022	
	Monthly and Annual returns	A.R. Submitted upto	2021-22	
Sl.No.	Item	Details given in A.R. for the year 2021-22	Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer-3 Geologist- 2 Manager-1	Mining Engineer-3 Geologist- 2 Manager-1	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area covered under opencast working- 5 ha. Reclaimed area-nil Occupied by plant,building and roads- 1 ha.	Area covered under opencast working- 5 ha. Reclaimed area-nil Occupied by plant, building and roads- 1 ha.	
9d	Scrutiny of Annual return on afforestation	Nil	Nil	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Nil	Nil	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM stock- 28.8 openingclosing stock- 179100 Production- 226040 Dispatch- 7897.96	Found in order	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Cost of production- 8402	Checked it and found in order	
9i	Scrutiny of Annual return on fixed assets			
9k	Scrutiny of Annual return on mining machineries	Shovel900cum- 3nos Shovel-2.1cum- 1 no Drilling machine- 2nos Dozer-1 Dumper-35 tonnes- 4nos.	Checked it and found in order.	

Details of violations observed during current inspection and compliance position of earlier violation pointed out:-

Rule	Proposed as per Mining Plan/ Rule				Violation				
No.	Position								
11(1)	(i) As	(i) As per the Mining Plan approved							
	vide	letter	No.	RMP/A/02-	(i)	During	inspection	it	was

I/7116/20	23	ORI/BHU/2021-22, dated 04.05.2021, it was proposed to drill 212 nos. of exploratory bore holes in the year 2021-22.	9
	33	The holder of a mining lease shall, on or before the 30 th day of June every year submit to the authorized officer, as the case may be, and the State Government, a digital copy along with a print copy of the surface geological plans and sections maintained under rule 32.	plans and sections has not been submitted for the year 2021-22

Violation issued on 09.02.2023.

Jitendriya Pradhan Assistant Mining Engineer