

**INDIAN BUREAU OF MINES  
MINERALS DEVELOPEMMENT AND REGULATION DIVISION**

**MCDR inspection REPORT**

**Bangalore regional office**

**Mine file No :** KNT/BLR/FE/403/BNG

**Mine code :** 30KAR03113

- (i) Name of the Inspecting : **J103** ) **V. JAYAKRISHNA BABU**  
Officer and ID No.
- (ii) Designation : Regional Controller Mines
- (iii) Accompanying mine : Sri.Vuppu Lowa Raju Mines Manager, Sri Amarayya Patri M  
Official with  
Designation
- (iv) Date of Inspection : 27/09/2021
- (v) Prev.inspection date : 23/07/2019

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **DONIMALAI(53.20 H)**
- (b) **Registration NO.** : **IBM/250/2011**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :  
State : KARNATAKA  
District : BELLARY  
Village : TARANAGAR  
Taluka : SANDUR  
Post office : TARANAGAR  
Pin Code :  
FAX No. : 080-41105775branchoffice@na  
E-mail : admin@nadeemminerals.com  
Phone : 080-41105475 (O)7406944424
- (f) Police Station : SANDUR
- (g) First opening date : 19/07/2006
- (h) Weekly day of rest : SUN
2. Address for : NADEEM MINERALS, ALFA MANOR, No. 227,  
correspondance 1st FLOOR, GREENGLEN LAYOUT, Off: OUTER RING Road  
BELLANDUR, VARTUR HOBLI, Bangalore-560103
3. (a) Lease Number : KAR0996
- (b) Lease area : 53.2
- (c) Period of lease : 20
- (d) Date of Expiry : 18/07/2026
4. Mineral worked : IRON ORE Main

## 5. Name and Address of the

Lessee : NADEEM MINERALS.,  
 BELLARY KARNATAKA  
 Phone:  
 FAX :

Owner : FAISAL SHAREEF,  
 BANGLORE URBAN KARNATAKA  
 Phone: 9980944424, 08  
 FAX :

## Mining Engineer

Name : Amarayya Patri, Full Time  
 Qualification : BE MINING  
 Appointment/ : 26/11/2018  
 Termination date

## Geologist

Name : Venkatasubbaiah Ch, Full Time  
 Qualification : M.Sc GEOLOGY  
 Appointment/ :  
 Termination date

## Manager

Name : Vuppu Lowa Raju  
 Qualification : FCC  
 Appointment/ : 01/05/2020  
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	29/01/1998
Plan/Scheme of Mining		Fresh under rule 22 MCR1960	08/07/1999
		Modif.of approved Mining Plan	18/10/2005
		Modif.of approved Mining Plan	24/04/2007
		Renewal under rule 22 MCR1960	25/05/2007
		MS modif under MCR 1960	21/04/2014
		Mining Scheme rule 12 MCDR1988	23/02/2016
		MP modif under 17(3) MCR 2016	25/10/2017
		MP review under 17(1) MCR 2016	24/06/2020
		MP review under 17(1) MCR 2016	24/11/2020

## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No Proposal	NA	Has been carried out during earlier years.
1b	Exploration over lease area for geological axis 1 or 2	No Proposal	NA	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No Proposal for the Reporting year 2020-21	No Proposal for the Reporting year 2020-21	In house exploration has been done during earlier years.
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	NIL	
1e	Balance reserve as on 01/04/20	9.50 Million Tonne With Average grade of 46.32% Fe	9.50 Million Tonne With Average grade of 46.32% Fe	3.07 million tonnes of reserves have been furnished in AR with average grade of 35.6% Fe.
1f	General remarks of inspecting officers on geology, exploration etc			NIL

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N 16678540 to 1668206 E 672043 to 672477	N 16678540 to 1668630 E 672043 to 672190	The actual development is carried out within the proposed location.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	4 in Over burden and 2 in Mineral	4 in Over burden and 2 in Mineral	OB : 4 benches, Ore : 2 benches.
2c	Stripping ratio or ore to OB ratio	1:0.224	1:0.26	NIL
2d	Quantity of topsoil generation in m3	No Proposals	No topsoil generated	NIL

2e	Quantity of overburden generation in m3	91733 MT	100000 MT	NIL
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			The actual development is carried out within the proposed grids. However violation issued for not maintaining bench width as per proposals.

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### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	2 Blocks (North Block & South Block)	2 Blocks (North Block & South Block)	North Block & South Block
3b	Quantity of ROM mineral production proposed	4,10,000 MT	3,85,220MT	NIL
3c	Recovery of sailable/usable mineral from ROM production	95%	95%	No change.
3d	Quantity of mineral reject generation	No proposals	Generation of mineral reject not involved.	No mineral rejects are generated.
3e	Grade of mineral rejects generation and threshold value declared.	Generation of mineral reject not involved.	The Ore below threshold value -45% Fe considered as sub grade ore and being utilized for blending purpose.Hence, there is no Mineral reject.	NIL
3f	Quantity of sub grade mineral generation.	Nil	Nil	Subgrade mineral generated it may be blended if any is blended with highgrade ore and sold through e-auction.
3g	Grade of sub grade mineral generation	Nil	Nil	Nil

3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized Mine by deploying HEMM with deep hole drilling.	Mechanized method adopted for degregating ROM	Dry crushing & screening at mine site is done.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposals	None	NIL
3j	Provision of drilling and blasting in mineral benches	Drilling and blasting being practiced in hard ore bands, soft ore shall be excavated directly.	Drilling and blasting being practiced in hard ore bands, soft ore shall be excavated directly.	Wagon drill deployed for drilling of blast holes. MS delay detonators & cord relays are used in conjunction with slurry explosives for better fragmentation and control of vibration.
3k	Provision of mining machineries in mineral benches	Air Compressor - 1 Backhoe - 4 Dumper - 10 Wheel loader - 2 Crusher - 2 Water tanker - 2 Rock drill (Non - Elec.) - 1	Air Compressor - 1 Backhoe - 3 Dumper - 10 Wheel loader - 2 Crusher - 2 Water tanker - 2 Rock drill (Non - Elec.) - 1	NIL
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Mine is proposed to operate by mechanized opencast mining with 8 m bench height	Mine is being operated by mechanized opencast mining with 8 m bench height	At some places bench width not maintained as proposed. Violation issued.
3m	Total area covered under excavation/pits	15.11 Ha	15.11 Ha	NIL
3n	Ore to OB ratio for the pit/mine during the year.	1:0.224	1:0.26	Stripping ratio increased Marginally due to bulging and irregular intersections of shale and BHJ into the ore bands.

3o	Total area put in use under different heads at the end of year	Area under mining 15.11 Waste dumping- 12.76 Backfilling- 4.86 Mineral storage- 1.30 Infrastructure - 0.20 Roads -1.0 Green belt/ Afforestation - 4.83 Mineral Separation - 0.35 Undisturbed Area - 11.41 Others (R&R works) - 1.0 TOTAL - 52.82	Area under mining 15.11 Waste dumping- 12.76 Backfilling- 4.86 Mineral storage- 1.30 Infrastructure - 0.20 Roads -1.0 Green belt/ Afforestation - 4.83 Mineral Separation - 0.35 Undisturbed Area - 11.41 Others (R&R works) - 1.0 TOTAL - 52.82	NIL
3p	Production of ROM mineral during the last five year period as applicable	2015-16 - 4,10,000MT 2016-17 - 4,10,000MT 2017-18 - 4,10,000MT 2018-19 - 4,10,000 MT 2019-20 - 4,10,000 MT 2020-21 - 4,10,000 MT	2015-16 -2,92,015 MT 2016-17 -93,920 MT 2017-18 -1,66,000MT 2018-19 - 98,000 MT 2019-20 - 41,500 MT 2020-21 - 3,85,220 MT	Actual production is marginally less than the proposed.
3q	General remarks of inspecting officers on method of mining etc.			Opencast method of mining is practiced with excavator & dumper combination. Drilling & blasting is carried out as and when required for hard rock formations.

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Solid Waste Management - Dumping:

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Sl.No.	Item	Propasals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No topsoil generation involved. OB/SB 91733 MT No mineral reject.	No, mineral rejection and topsoil generated. OB/SB1,00,000MT	Separate Dumping for OB in Ear-marked location as per Mining Scheme
4b	Location of topsoil, OB and mineral reject dumps	No top soil dump proposed. OB/SB: Backfilling Over sectional area of 1-1' &2-2' &BHQ/BHJ Dump over the sectional area of 13-13'	No top soil dump proposed. OB/SB: Backfilling Over sectional area of 1-1' &2-2' &BHQ/BHJ Dump over the sectional area of 13-13'	NIL
4c	Number of dumps within lease area and outside of lease area	Within Lease 2 nos. of active dumps No dumping proposed outside the lease.	2 nos. of active dumps within the lease area and no dumping proposed outside the Lease	2 OB dumps in NE & SE portion of the lease area.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	NE&SE portion of the lease area	NE&SE portion of the lease area	NIL
4e	Number of active and alive dumps.	2 Nos.	2 Nos.	NIL
4f	Number of dead dumps.	3 Nos.	3 Nos.	NIL
4g	Number of dumps established.	3 Nos.	3 Nos.	Stabilized by plantation and coir matting.
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	Yes	Retaining wall and garland Drains formulated all along the dumps
4i	Length of Retaining wall or garland drain all along dumps	No proposals given during 2020-21	NIL	R & R works completed as per ICFRE plan and no proposals given during 2020-21.
4j	Number of settling ponds	No proposals given during 2020-21	NIL	

4k	Specific comments of inspecting officer on waste dump management	Waste dump management is satisfactory. Three inactive dumps stabilized and all the dumps are located outside the UPL.
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#### Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	Backfilling proposals given over the sectional area of 1-1' & 2-2'.	Waste generated during mining was Backfilled at proposed sectional area of 1-1' & 2-2'. and also Plantation work completed. This area shows which is fully extracted of reserves in the past.	
5b	Area under backfilling of mined out area	0.35	Dumping has been done in Existing Dumping Area in Back filling Area	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No top soil generation involved.	--	NIL
5d	Total area fully reclaimed and rehabilitated	4.86 Ha Till FY 2020-21 TOTAL: 4.86 Ha.	4.86 Ha Till FY 2020-21 TOTAL: 4.86 Ha.	NIL
5e	General remarks of inspecting officers on backfilling and reclamation etc.			4.86 ha has been backfilled upto 2020-21 and covered with plantation.

#### Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	YES	-	Not submitted and violation issued.



6b	Area available for rehabilitation (ha) .	--	--	NIL
6c	afforestation done (ha).	1.00 Ha	1.00 Ha	NIL
6d	No. of saplings planted during the year	2,500 Nos.	2,5000 Nos.	NIL
6e	Cumulative no .of plants	82,000 Nos.	1,17,100 Nos.	NIL
6f	Any other method of rehabilitation			
6g	Cost incurred on watch and care during the year	Rs. 1,77,000/-	Rs. 1,77,000/-	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	NIL	NIL	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Total 4.86 Ha	Total 4.86 Ha	NIL
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	Yes Afforestation Done	Yes Afforestation done	3 Terraces covered under plantation.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No Proposal	No Proposal	NIL
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	By Terracing with plantation	By Terracing with plantation	NIL

6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Afforestation carried out	Afforestation carried out	NIL
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NIL	NIL	NIL
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	By plantation	Plantation done	Afforestation carried out
6p	Compliance of environmental monitoring (core zone and buffer zone)	SUMS, Hospete	SUMS, Hospete	Environmental Monitoring in Core zone & Buffer zone being done as per MOEF Guidelines
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			PMCP activities are carried out as per the approved plan.

#### Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade wise sorting within the lease area	Dry crushing & screening for size separation is done.	NIL
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanically sorted through mobile Crushers and Screening plants	Mechanically sorted through mobile Crushers and Screening plants	Dry crushing & screening plant.
7c	Different grade of mineral sorted out at mines.	>45% to <55%	>45% to <55%	NIL
7d	Any beneficiation process at mines	No proposal	None	NIL

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Grade wise sorting is done within the mining lease area with mechanized means by adopting dry crushing & screening unit.
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## Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Top Soil generation not involved during the year 2020-21	NIL	NIL
8b	Concurrent use or storage of topsoil	NIL	NIL	NIL
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Dumping being carried out as proposed in the approved Modification and Review of Mining Plan.	Dumping being carried out as proposed in the approved Modification and Review of Mining Plan.	NIL
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	The waste generated is proposed to be backfilled within the exhausted area	Backfilling is being carried out within the Mineral exhausted area.	NIL
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Exhausted pit is being restored by way of backfilling and afforestation works carried out on inactive terraces of backfilling dump.	Exhausted pit is being restored by way of backfilling and afforestation works carried out on inactive terraces of backfilling dump.	NIL

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Measures for Planting in the mineral exhausted area	Plantation work had been carried out in the Back filled dump area as per the Modification and Review of Mining Plan	Cumulative 117000 saplings are planted.
8g	Survival rate	70%	70% Survival	NIL
8h	Water sprinkling on roads to control airborne dust	Regular water sprinkling inside the lease area as well as on approach road to suppress air borne dust on roads and dumps.	Regular water sprinkling inside the lease area as well as on approach road to suppress air borne dust on roads and dumps.	Twa water tankers are deployed.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			The aesthetic beauty in & around the mine is good as lessee has carried out afforestation & environmental protective measures have been taken up as per the approved plan.

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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly Returns: Submitted up to August -2021 Annual Returns: submitted upto 2020-21		NIL
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mines Manager - Vuppu Lowa Raju Mining Engineer - AmarayyaPatri Geologist - VenkataSubbaiahCherreddy		Appears to be correct

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Backfilled area - 4.86Ha Covered under current workings - 15.11Ha Reclaimed/Rehabilitated - 4.86Ha Used for waste disposal - 12.76Ha Occupied by plant, buildings, residential & roads - 1.55Ha Other purpose (afforestation, safety zone, stockyard) - 6.13Ha Work done under progressive mine closure plan during the year - 1.0Ha	Appears to be correct	
9d	Scrutiny of Annual return on afforestation	2,500 Saplings were planted on dumps@70% survival rate.	Appears to be correct	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	There is no proposal to generate mineral reject.	NIL	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM Production Opening Balance: 0.000 MT Production: 4,10,000MT Processing: 4,10,000 MT Closing Balance : Nil	ROM Production Opening Balance: 0.000 Production: 3,85,220MT Processing: 2,20,342 MT Closing Balance :164878 Grade Wise Stock: Below 55% : 2,04,842 MT	NIL

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Sale value: Rs. 2,09,12,250Ex. Mine price: 782.96 Rs/MT Cost of production: 432.04 Rs/MT	Appears to be correct
9h	Scrutiny of Annual return on fixed assets	Fixed assets: Rs. 3938235	Appears to be correct
9k	Scrutiny of Annual return on mining machineries	Air Compressor - 1 Backhoe - 4 Dumper - 10 Wheel loader - 2 Crusher - 2 Water tanker - 2 Rock drill (Non - Elec.) - 1	Air Compressor - 1 Backhoe - 3 Dumper - 10 Wheel loader - 2 Crusher - 2 Water tanker - 2 Rock drill (Non - Elec.) - 1 NIL

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**Details of violations observed during current inspection and compliance position of violation pointed out**

Violation observed			Show couse position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on
MCDR17	Rule 11(1)	12/10/2021			
MCDR17	Rule 26(2)	12/10/2021			

**Date :****(V. JAYAKRISHNA BABU)**

Indian Bureau of Mines