

**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 : **P005**) **C.PARAMESHWARAN**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Shri. Bharathi dasan. Mine manager & Shekhar. geologi
Official with
Designation
- (iv) Date of Inspection : 20/06/2018
- (v) Prev.inspection date : 18/06/2015

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 :

Manager

Name : BHARATHI DASAN
 Qualification : DIPLOMA IN MINING , MINES MANAGER FCC
 Appointment/ : 06/12/2012
 Termination date

6. Date of approval of Mining	:	Modif.of approved Mining Plan	18/10/2005
Plan/Scheme of Mining		Modif.of approved Mining Plan	24/04/2007
		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

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposals	nil	nil
1b	Exploration over lease area for geological axis 1 or 2	No proposals.	drilled 5 nos. of RC drill holes of 453m depth.	lessee wants drill some more 10 bore holes, but due to rig non availability, nt undertaken.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposals.	APC drilling & construction Pvt. Ltd. incurred 15.56 lakhs.	sample analysis nt undertaken by the lessee.
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposals.	Not given	proposals given in 2019-20 to assess the area between 9-9' to 15-15' respectively.
1e	Balance reserve as on 01/04/20	2.235MMT	2.235MMT	same as above, during the year 2017-18 1.66LT exploited.
1f	General remarks of inspecting officers on geology, exploration etc			

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Proposed between 4-4' to 7-7' and 13-13' and 14-14'	work is being carried out within the proposed areas.	yes it is being followed.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	proposed.	yes separate benches are followed as applicable, but no top soil.	No top soil, OB & mineral benches are made, benches are not satisfactory in the current working, violation issued.

2c	Stripping ratio or ore to OB ratio	1:1.75	1:2.3	Difference in the stripping ratio due to heterogeneous character of the deposits and the BHQ/BHJ occurrence.
2d	Quantity of topsoil generation in m3	No proposals.	nil	nil
2e	Quantity of overburden generation in m3	296183m3.	182749m3.	Less than the proposed, not achieved.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	proposed.	not maintained as per the proposals.	violation issued for non satisfactory.

Exploitation:

Sl.No.	Item	Proposals	Actual work	Remarks
3a	Number of pit proposed for production	Proposed in pit No.1 & 2.	Yes pit No.1 & 2 are being followed in the mine.	yes it is being followed.
3b	Quantity of ROM mineral production proposed	410000MT	166000t	Market flexuation in demand.
3c	Recovery of sailable/usable mineral from ROM production	95%	90-95%	Satisfactory, over and above BHJ occurrence in pit No.1 & 2 creates lot of disturbances.
3d	Quantity of mineral reject generation	No proposals.	other than BHJ, no other mineral rejects generated.	yes as above.
3e	Grade of mineral rejects generation and threshold value declared.	No proposal	the ore of +45%Fe is used and below that is blended with high grade for consumption.	yes it is being followed.
3f	Quantity of sub grade mineral generation.	No proposals.	nil	nil
3g	Grade of sub grade mineral generation	nil	nil	nil

3h	Manual / Mechanised method adopted for segregating from ROM	Proposed.	yes using mechanized means.	yes machine is used the same.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposals.	nil	nil
3j	Provision of drilling and blasting in mineral benches	proposed.	yes wherever required drilling & blasting are adopted/ used.	used in hard rock only/ in soft rock directly machine is used.
3k	Provision of mining machineries in mineral benches	proposed	yes used proposed machineries as per the approved document.	machines are used appropriately.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Proposed in the approved document.	Yes it is suitable as per the proposals.	suitable as per the proposals.
3m	Total area covered under excavation/pits	15.74 ha	15.74 ha	Yes same as it is.
3n	Ore to OB ratio for the pit/mine during the year.	1:1.75	1:1.2.3	Difference in the proposals.
3o	Total area put in use under different heads at the end of year	41.97 ha	41.97 ha	as above.
3p	Production of ROM mineral during the last five year period as applicable	2013-14=410000MT to 2017-18=410000MTfor five years same.	2013-14=342000t 2014-15=410000t 2015-16=292015t 2016-17=93920t 2017-18=166000t	not able to maintain the targeted production.
3q	General remarks of inspecting officers on method of mining etc.	proposed for systematic work	Not able to maintain due to heavy intercalated waste/ BHJ.	yes, violation issued accordingly.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate dumping proposed.	no top soil, mineral rejects generated, except OB.	Yes as given above.
4b	Location of topsoil, OB and mineral reject dumps	Proposed.	no top soil, OB is used for back filling in the mined out & exhausted area in section 1A-1A' to 3-3' & 13-13' to 14-14' for BHJ dumping.	Violation issued for dumping of BHJ beyond the section line.
4c	Number of dumps within lease area and outside of lease area	Proposed two dumps within the lease.	No dumping outside & two within the lease.	As above mentioned.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Proposed.	Yes outside the UPL located.	Yes it is located outside the lease.
4e	Number of active and alive dumps.	Two active and alive dumps.	Yes as given above two active and alive.	Yes it is correct.
4f	Number of dead dumps.	three dumps.	Three dumps.	Yes three dumps dead.
4g	Number of dumps established.	Proposed	Three dead dumps stabilized.	yes stabilized three dumps.
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes proposed.	yes it is present.	it is present during the site inspections.
4i	Length of Retaining wall or garland drain all along dumps	Proposed in the R & R document.	yes as per the year 2017-18, R & R work completed.	It is true R & R work completed as per the year 2017*18.
4j	Number of settling ponds	proposed.	Proposals completed as on 2017-18.	Yes found settling ponds.
4k	Specific comments of inspecting officer on waste dump management	Proposed for systematic work.	Yes it is being carried out.	Violation issued for not carrying out as per the proposals.

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.	Yes proposals given.	Back filling in 1A-1A' to 3-3' after extracting ores.	back filling / reclamation 1A-1A' to 3*3'.

5b	Area under backfilling of mined out area	3.95 ha	Actual also 3.95 ha.	under progress in the above area & nt completed.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposals.	Nil	Though the back filling is going on in the designated place, but the afforestation will be at the last.
5d	Total area fully reclaimed and rehabilitated	5.83 given	5.83 ha reported.	satisfactory.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	proposed	Under progress satisfactorily, with constrains of space.	Satisfactory.

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 submitted	submitted for the year 2017-18.	yes submitted.
6b	Area available for rehabilitation (ha) .	3.95 HA	3.95 HA	AS ABOVE.
6c	afforestation done (ha).	proposed.	1.00 ha	as above is corect.
6d	No. of saplings planted during the year	2500 nos.	6000nos.	same.
6e	Cumulative no .of plants	74500 nos.	102500 nos.	No change.
6f	Any other method of rehabilitation	nil	nil	nil
6g	Cost incurred on watch and care during the year	proposed.	Rs. 6 lakhs	same.

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposals.	nil	Other than mining operation, no area can be undertaken rehabilitation.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Nil	nil	nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	proposed.	afforestation done partly in the back filled area.	yes back filled area partly done afforestation.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	nil	nil	nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	nil	nil	nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	nil	nil	Natural growth is already present in the ML area.
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	no proposals.	nil	nil

6p	Compliance of environmental monitoring (core zone and buffer zone)	proposed	It is being carried out in the mine.	Yes it is followed.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	proposed partly.	yes it is done in part.	yes it is followed.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	proposed	yes it is followed in the mine.	Lump, fines were sorted & sized.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	mechanized.	mechanized.	yes mechanized.
7c	Different grade of mineral sorted out at mines.	proposed	Lumps, fines & calibrated ore of 10-20, 10-40mm & above 40mm.	yes depends on the requirements of the lessee.
7d	Any beneficiation process at mines	Only dry process.	Yes dry process and no wet process.	yes as reported.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Proposed for systematic operation.	it is being follwed, still violation issued.	needs to to improve, sorting and stackings.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposals.	nil	nil

8b	Concurrent use or storage of topsoil	No proposals	no generation of top sil.	yes no top soil in the mine.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposed.	Yes relevant materials are stacked appropriately.	yes it is followed.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	proposed.	waste OB is used for back filling in the mined out area as reclamation & rehabilitataion purposes.	Yes it is being followed strictly.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	proposed	presently part of the pit is being utilized for back filling.	yes partly in the pit.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Proposed.	the topography of the area almost on the hill top, area presents the flora & fauna and lessee also undertakes the plantation ,as required. 72000 nos. of splings done.	yes it is undertaken in the desired places. 965000 saplings.
8g	Survival rate	60-70%	60-70%	50-60% approx.
8h	Water sprinkling on roads to control airborne dust	proposed.	water sprinkling is followed regularly.	it is followed stritly.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Separate mine in the area, lessee proposed.	yes it is being well maintained.	satisfactory.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	submitted AR & MR for the year 2016-17 & 2017-18.	Submitted the datas as per the formats to the satisfaction.	yes satisfaction.

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager & geologist details furnished.	S/Shri Bharathidasan, Manager & Patil YL.	Yes they are working in the mine.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	area exploited and abandoned=3.9 ha, covered under current working=13.82 ha, reclaimed/rehabilitation=11.33ha, waste disposal=5.7ha, plant & building=1.97 ha & other safety zone & afforestation=7.37 ha.	violation issued Sl.No.12(i) & (iii)	yes issued for the correction.
9d	Scrutiny of Annual return on afforestation	6000 nos.with 70%	reported figure is correct with 60-65%.	yes same.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	708570t with nil grade.	Possibly BHJ	yes it is BHJ.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	OS=140080t, production=93920t & CS=2000t.	Given in the graded ore lumps= <55 to +65& Above and fines <55%Fe to +65%Fe & above.	given details are appropriate.

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Rs. 1505/t of 55-58%Fe of lumps, 1759/t, 2154/t, 2500/t and fines goes from Rs. 1321/t of 55-58%Fe, 1533/t, 1614/t, 1684/t of fines. Rs. 1045/t for cost of production and sale value is Rs. sale value is rs. 1484/t of lumps 55-58%Fe, 1689/t, rs. 2500/t of lumps with 62-65%Fe. fines Rs. 1329/t, Rs. 1332/t for 60-62%Fe.	Reported quantity and the prices are as per the prevailing market condition thro e-auction.	satisfactory as reported.
9h	Scrutiny of Annual return on fixed assets	Fixed is Zero, depreciation is Rs. 2459446	It is surprise to know the zero price of the fixed assets.	nil
9k	Scrutiny of Annual return on mining machineries	Details of the machineries are reported as per the approved document proposals.	machines are used in the mine as proposed.	it is being used in the mine for the respective works.

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)	18/07/2018			
	Rule 45(7)	18/07/2018			

Date :

(C.PARAMESHWARAN)

Indian Bureau of Mines