

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

MCDR inspection REPORT

Bangalore regional office

Mine file No : KNT/CTD/MN/121/BNG

Mine code : 40KAR07044

- (i) Name of the Inspecting : **277**) **GANGADHAR BHAKAT**
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : SharatkumarHegde (Senior Manager Geology)
Official with
Designation
- (iv) Date of Inspection : 15/03/2023
- (v) Prev.inspection date : 12/09/2017

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **BAHADURGHAT**
- (b) **Registration NO.** : **IBM/8848/2012**
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address
State : KARNATAKA
District : CHITRADURGA
Village : BAHADURGHAT
Taluka : CHITRADURGA
Post office : BAHADURGHAT
Pin Code :
FAX No. : 08392-277810 (F),
E-mail : k.chandranath@yahoo.co.in
Phone : 08392-276218 (O), 94482778:
- (f) Police Station : HOSADURGA
- (g) First opening date : 12/03/1979
- (h) Weekly day of rest : SUN
2. Address for : Mr K CHANDRANATH,
correspondance NO 15/8, SAKRIKARADAPPA STREET,
BELLARY - 583101
3. (a) Lease Number : KAR1074
- (b) Lease area : 20.23
- (c) Period of lease : 50
- (d) Date of Expiry : 21/03/2029
4. Mineral worked : MANGANESE ORE Main

5. Name and Address of the

Lessee : K.VISHVANATH
 SAKRIKADAPPA STREET
 BELLARY KARNATAKA
 Phone:08392-76218
 FAX :

Owner : K.CHANDRANATH
 CHITRADURGA KARNATAKA
 Phone:
 FAX :

Mining Engineer

Name : SHARANABASAVA,Full Time
 Qualification : B.E.MINING
 Appointment/ : 25/02/2021
 Termination date

Geologist

Name : SHARAT KUMAR ACHYUT HEGDE,Full Time
 Qualification : M.Sc GEOLOGY
 Appointment/ :
 Termination date

6. Date of approval of Mining	:	Existing rule 11 MCDR1988	04/08/1992
Plan/Scheme of Mining		Renewal under rule 22 MCR1960	08/09/2000
		Mining Scheme rule 12 MCDR1988	12/02/2008
		MP review under 17(1) MCR 2016	16/01/2018
		MP review under 17(1) MCR 2016	31/01/2020

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	10 Core Bore Hole (200m)	Nil.	Violation issued.
1b	Exploration over lease area for geological axis 1 or 2	18 Core Bore Hole (300m)	Nil.	Violation issued.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NA	NIL	
1d	Balance area to be explored to bring Geological axis in 1 or 2		13.23 Ha	13.23 Ha unexplored area.
1e	Balance reserve as on 01/04/20	--	0.1205 MT as on 01/04/2022	
1f	General remarks of inspecting officers on geology, exploration etc			No exploration has been carried out against the proposal of 18 Nos. core boreholes with 300m depth for the year 2021-22 & 10 Nos. core boreholes with 200m depth for the year 2020-21. Hence, violation issued under Rule 11(1) of MCDR, 2017.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	Pit 1 & 2	Pit 1 & 2	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes, proposed for OB.	Carried out as per proposal.	No topsoil generated.
2c	Stripping ratio or ore to OB ratio	1:7.93	1:7.833	Ore:4000 Cum OB:31333Cum

2d	Quantity of topsoil generation in m3	No proposal.	Nil.	No topsoil generated during the year 2021-22.
2e	Quantity of overburden generation in m3	36,038 Cum	31,333 Cum	--
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			No topsoil generated during the year 2021-22.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Pit-1 and pit-2	Pit-1 and pit-2	
3b	Quantity of ROM mineral production proposed	20,000 Tons	18,800 Tons	Production from O/C working- 8800 Tons, & Dump working - 10000Tons
3c	Recovery of sailable/usable mineral from ROM production	30%	30%	As per proposal.
3d	Quantity of mineral reject generation	No Proposal.	NIL	--
3e	Grade of mineral rejects generation and threshold value declared.	No Proposal.	NA	--
3f	Quantity of sub grade mineral generation.	No Proposal.	NIL	--
3g	Grade of sub grade mineral generation	No Proposal.	NIL	--
3h	Manual / Mechanised method adopted for segregating from ROM	Proposed manual method for segregating from ROM.	Manual method adopted for segregating from ROM.	--

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No Proposal.	NIL	
3j	Provision of drilling and blasting in mineral benches	Yes.	Carried out within the proposed location.	
3k	Provision of mining machineries in mineral benches	Yes.	Back Hoe - 3 No. Front End Loader -1 No. Tipper - 3 No's Water Tanker- 1 No.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes. Height of benches 3m	Height of benches maintained less than 3m.	
3m	Total area covered under excavation/pits	4.893Ha	4.689 Ha.	
3n	Ore to OB ratio for the pit/mine during the year.	1:7.93 (In Cum)	1:7.833 (In Cum)	Ore:4000 Cum OB:31333Cum
3o	Total area put in use under different heads at the end of year	Working- 4.893Ha Waste dump- 1.110Ha, Roads- 0.297Ha Mineral storage-1.0Ha	Working-4.689Ha Waste dump-1.110Ha, Roads- 0.297Ha Mineral storage-1.0Ha	
3p	Production of ROM mineral during the last five year period as applicable	2020-21: 20,000 2021-22: 20,000 (in tonnes)	2020-21: 18,700 2021-22: 18,800 (in tonnes)	Reopening of mine on 22.02.2021.
3q	General remarks of inspecting officers on method of mining etc.			Mineral is shorting from the pit manually by hand picking. The mine was reopened on 22.02.2021.

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)	Proposed separate dumping.	Carried out as per proposal.	Waste dumping carried out at D-8.
4b	Location of topsoil, OB and mineral reject dumps	Waste dump: N 195 to N 393 & E 400 to E 605	Waste dump: N 193 to N 389 & E 402 to E 592	
4c	Number of dumps within lease area and outside of lease area	9 dumps (WML)	9 dumps (WML)	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Proposed outside the UPL.	Carried as per proposal.	
4e	Number of active and alive dumps.	8 dumps.	8 dumps.	
4f	Number of dead dumps.	1 dump.	1 dump.	
4g	Number of dumps established.	1 dump.	1 dump.	Earlier stabilized.
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	Carried out.	
4i	Length of Retaining wall or garland drain all along dumps	RW-348m GD-426m	RW-100m GD-150m	Violation issued.
4j	Number of settling ponds	01	NIL	
4k	Specific comments of inspecting officer on waste dump management			Lessee has constructed 100m of retaining wall & 150m of garland drain against the proposal 348m of retaining wall & 426m of garland drain. Hence violation issued under rule 11(1) of MCDR, 2017.

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
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5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	No proposal.	NIL	
5b	Area under backfilling of mined out area	No proposal.	NIL	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal.	NIL	
5d	Total area fully reclaimed and rehabilitated	No proposal.	NIL	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			There is no specific comment in the waste management.

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.	Violation issued under rule 26(2) of MCDR, 2017.
6b	Area available for rehabilitation (ha) .	No proposal.	NIL	
6c	afforestation done (ha).	0.406Ha	0.406Ha	Buffer zone & other area.
6d	No. of saplings planted during the year	Proposed 500 Nos.	500 Nos.	WML -200Nos & OML-300Nos
6e	Cumulative no .of plants	1500 Nos.	500 Nos.	
6f	Any other method of rehabilitation	No proposal.	NIL	
6g	Cost incurred on watch and care during the year	No proposal.	NIL	

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal.	NIL
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal.	NIL
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No proposal.	NIL
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal.	NIL
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal.	NIL
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No proposal.	NIL
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal.	NIL
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal.	NIL

6p	Compliance of environmental monitoring (core zone and buffer zone)	Environmental monitoring proposed for Air, Water & Noise at core zone & buffer zone.	Carried out records verified during inspection.	Carried out by M/s Sneha Test House (NABL lab) Bengaluru. All the parameters are within the limit.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Environmental monitoring work carried out by M/s. Sneha Test House (NABL lab) Bengaluru for Air, Water & Noise at core zone & buffer zone.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Manual sorting & sizing.	Sorting& sizing carried out within lease area.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual method proposed for grade-wise mineral sorting.	Manual method adopted for grade-wise mineral sorting.	
7c	Different grade of mineral sorted out at mines.	No proposal.	Below 25% Mn 25% to 35% Mn	
7d	Any beneficiation process at mines	No proposal.	NIL	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Mineral shorting manually by hand picking from pit.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	No proposal.	Nil.	No topsoil generated.
8b	Concurrent use or storage of topsoil	No proposal.	NIL	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes, for waste dump.	Carried out as per proposal.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal.	NIL	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal.	NIL	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	No proposal.	NIL	
8g	Survival rate	No proposal.	80%	As per AR for the year 2021-22.
8h	Water sprinkling on roads to control airborne dust	Water sprinkling on haul road proposed.	Water sprinkling was carried out to control air born dust.	Water tanker capacity 12,000ltr.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			There is no change in aesthetic beauty in and around mines area.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	M.R. Submitted up to February-2023 A.R. Submitted up to year 2021-2022	M.R. Submitted 08/03/2023. A.R. Submitted on 25/06/2022.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Sharat kumar Achyut Hegde Geologist SharanabasavaM ining Engineer	Appear to be correct.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Working- 4.689Ha Waste dump- 1.110Ha, Roads- 0.297Ha Mineral storage-1.0Ha	Appear to be correct.
9d	Scrutiny of Annual return on afforestation	WML: 200, OML: 300 Nos. & survival rate: 80%	Appear to be correct.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NIL	Appear to be correct.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Opening Stock of ROM: Nil. Closing Stock of ROM: 5300 Tons. ROM Production: Tons. 18800 Tons. Grade wise production of Manganese:- 13500 Tons.	Appear to be correct.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex-mine price: Below 25% Mn- Rs. 2516.50/- per ton, 25% to < 35% Mn- Rs. 6563.90/- per ton Cost of production- Rs 1900/- per ton.	Violation issued for Royalty, DMF & NMET paid details have not been accounted for arriving at the cost of Production.

9h	Scrutiny of Annual return on fixed assets	Value of fixed assets: Rs. 57500000/-	Appear to be correct.
9k	Scrutiny of Annual return on mining machineries	Back Hoe - 3 No. Front End Loader -1 No. Tipper - 3 No's Water Tanker- 1 No.	Appear to be correct.

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

Violation observed			Show cause position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on
MCDR17	Rule 11(1)	02/05/2023			
MCDR17	Rule 26(2)	02/05/2023			
MCDR17	Rule 45(7)(a)	02/05/2023			

Date :

(GANGADHAR BHAKAT)

Indian Bureau of Mines