

**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 : **278**) **KRISHNENDU CHATTERJEE**
Officer and ID No.
- (ii) Designation : Junior Mining Geologist
- (iii) Accompanying mine : Shri K. Chandranath, mine owner
Official with
Designation
- (iv) Date of Inspection : 12/09/2017
- (v) Prev.inspection date : 15/03/2011

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 : 20
- (d) Date of Expiry : 21/03/1999
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 :

Geologist

Name : C.P.PRASANNAKUMAR, Full Time
 Qualification : Geologist
 Appointment/ : 01/04/1999
 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

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No Proposal	Nil	ML is non working for last 10 years due to pending lease renewal, no Scheme of Mining for the period of 2013-14 to 2017-18 was submitted by the lessee.
1b	Exploration over lease area for geological axis 1 or 2	No proposal	Nil, except a existing mine pit measuring 450m(L) x 90m(W) X 40m(D)	Entire strike length of the ore body has been excavated with open pit.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No Proposal	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No Proposal	4.05 Ha. area is already explored by the open pit	
1e	Balance reserve as on 01/04/20	No Proposal	98,858 tonnes of manganese	as per the last approved Scheme of Mining dated 12.02.2008
1f	General remarks of inspecting officers on geology, exploration etc	No Proposal	ML is valid till 08.09.2029 as per the MMDR amendment Act, 2015. Extension of ML period yet to be obtained by the lessee.	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	No proposal	Existing mine pit was extending beyond mining lease boundary at north western side of the lease.	Matter was informed to the State DMG vide letter no. KNT/CTD/MN/121/BNG dated 08.11.2017.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No Proposal	seperate benches for OB and ore were found.	

2c	Stripping ratio or ore to OB ratio	No proposal	Nil	ML is non working for last 10 years and no Scheme of Mining for the period of 2013-14 to 2017-18 was submitted by the lessee.
2d	Quantity of topsoil generation in m3	No proposal	Nil	
2e	Quantity of overburden generation in m3	No proposal	Nil	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	No proposal	Violation of Rule 11(1) was issued for deviation in development location during site inspection dated 12.09.2017	There is a change in mining lease boundary sketch as per latest joint survey dated 04/08/2017.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	No proposal	single existing mine pit measuring 450m(L) x 90m(W) X 40m(D)	
3b	Quantity of ROM mineral production proposed	No proposal	Nil	
3c	Recovery of sailable/usable mineral from ROM production	No proposal	30%	As per the last approved Scheme of Mining dated 12.02.2008
3d	Quantity of mineral reject generation	No proposal	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	No proposal	Nil	
3f	Quantity of sub grade mineral generation.	No proposal	Nil	
3g	Grade of sub grade mineral generation	No proposal	10-25% Mn	

3h	Manual / Mechanised method adopted for segregating from ROM	No proposal	B-Manual	
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	No proposal	Nil	
3k	Provision of mining machineries in mineral benches	No proposal	Mine non working	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	No proposal	Bench height 6m, width 5-8m	
3m	Total area covered under excavation/pits	No proposal	4.05 Ha.	single mine pit measuring 450m(L) x 90m(W) X 40m(D)
3n	Ore to OB ratio for the pit/mine during the year.	No proposal	Mine non working	
3o	Total area put in use under different heads at the end of year	No proposal	Mining: 4.10 Dumping: 2.12 Road: 1.20 Safety zone: 1.37 (in Ha.)	
3p	Production of ROM mineral during the last five year period as applicable	No proposal	No production is reported during last 5 years.	
3q	General remarks of inspecting officers on method of mining etc.	No proposal	No violation in respect of exploitation was observed.	

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)	Seperate dumping of OB.	Yes.
4b	Location of topsoil, OB and mineral reject dumps	No proposal	8 old dumps, 3 along the western side and 5 along eastern side of the mine pit.
4c	Number of dumps within lease area and outside of lease area	No proposal	8 dumps within lease areas
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No proposal	Outside UPL
4e	Number of active and alive dumps.	No proposal	8 inactive dumps
4f	Number of dead dumps.	No proposal	8 nos.
4g	Number of dumps established.	No proposal	Old dumps are stabilized by plantation.
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal	Nil
4i	Length of Retaining wall or garland drain all along dumps	No proposal	Retaining wall and garland drain not constructed.
4j	Number of settling ponds	No proposal	Nil
4k	Specific comments of inspecting officer on waste dump management	No proposal	inactive dumps were found to be stabilized by plantation, no violation issued on dump management.

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.	No proposal	Nil	Mining pit is not matured for backfilling.

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.	No proposal	Nil

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).	No proposal	Not submitted, mine is non working	
6b	Area available for rehabilitation (ha) .	No proposal	Nil	
6c	afforestation done (ha).	No proposal	1.6 Ha. within ML so far	Afforestation is found to be carried out along waste dumps.
6d	No. of saplings planted during the year	No proposal	Nil, ML is non working	
6e	Cumulative no .of plants	No proposal	Approx. 2000 nos. within ML area	
6f	Any other method of rehabilitation	No proposal	Nil	
6g	Cost incurred on watch and care during the year	No proposal	Approx. Rs. 150,000/-	

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal	Not applicable	Mineral is persisting in the bottom of the pit.
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	Not applicable	
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	No waste land involved	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal	Not applicable	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal	Not applicable	

6p	Compliance of environmental monitoring (core zone and buffer zone)	No proposal	Nil, ML is non working.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	No proposal	No deviation w.r.t PMCP compliance is observed during the course of MCDR inspection dated 12.09.2017

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No proposal	Nil	B-Manual mining operation
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No proposal	Nil	Mine is non working.
7c	Different grade of mineral sorted out at mines.	No proposal	Nil	
7d	Any beneficiation process at mines	No proposal	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	No proposal	Waste materials are disposed away from the mine pit.	

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal	No seperate top soil stack is found, utilized for afforestation.	

8b	Concurrent use or storage of topsoil	No proposal	used for afforestation.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No proposal	No separate mineral reject stack is found.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	Nil	Mineral is not found exhausted in the working pit
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Will be complied during Final Mine Closure	Nil	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	No proposal	Total 2000 nos. of plantation in 1.6 Ha. area within ML.	
8g	Survival rate	No proposal	Not applicable.	
8h	Water sprinkling on roads to control airborne dust	No proposal	Nil	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	No proposal	ML is not working for last 10 years. Any change in aesthetic beauty in & around the mining area is not observed. Existing plantations as carried out by the lessee are found to be maintained.	

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns		AR submitted upto F.Y. 2016-17 Nil MR submitted upto July 2017.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Nil AR	No mining Engineer and Geologist has been appointed	ML is non working
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Not furnished	Mining: 4.10 Dumping: 2.12 Road: 1.20 Safety zone: 1.37 (in Ha.)	
9d	Scrutiny of Annual return on afforestation	Not furnished	1.37 Ha. area with 2000 nos. of planta (apprx)	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	No production	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Nil	No ROM stack found during inspection	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Nil	Non-working mine.	
9h	Scrutiny of Annual return on fixed assets	Nil	No infrastructure, mining machinery or plant was present within ML	
9k	Scrutiny of Annual return on mining machineries	Nil	No mining machinery within ML	

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)	21/09/2017	29/11/2017			

Date :

(KRISHNENDU CHATTERJEE)

Indian Bureau of Mines