

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

MCDR inspection REPORT

Kolkata regional office

Mine file No : CAL/BH/SB/FE(G-6)

Mine code : 30BHR27007

- (i) Name of the Inspecting : **G004**) **OM PRAKASH GOPAL**
Officer and ID No.
- (ii) Designation : Regional Mining Geologist
- (iii) Accompanying mine : Shri Subhash Pradhan, Mines Manager
Official with
Designation
- (iv) Date of Inspection : 18/03/2020
- (v) Prev.inspection date : 29/08/2018

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **GHATKURI**
- (b) **Registration NO.** : **IBM/4562/2011**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :
State : JHARKHAND
District : SINGHBHUM (WEST)
Village : GHATKURI (NUIA)
Taluka : CHAIBASA-SADAR
Post office : GUA
Pin Code : 833213
FAX No. : 06767-276651
E-mail : bbloffice@rungtamines.com
Phone : 06582 256861 / 256761
- (f) Police Station : Gua
- (g) First opening date : 10/10/1953
- (h) Weekly day of rest : SUN
2. Address for : PO: CHAIBASA
correspondance : DIST: SINGHBHUM (W) .
JHARKHAND , PIN 833201
3. (a) Lease Number : BHR0065
- (b) Lease area : 27.52
- (c) Period of lease : 30
- (d) Date of Expiry : 23/01/1999
4. Mineral worked : IRON ORE Main

5. Name and Address of the

Lessee : RUNGTA MINES LTD.
 AT& PO: CHAIBASA DISTT :
 SINGHBHUM WEST JHARKHAND
 SINGHBHUM (WEST) JHARKHAND
 Phone:(06582) 56861
 FAX :

Owner : Sri Hirak Mazumder
 Rungta House chaibasa
 Singhbhum(W) SINGHBHUM
 (WEST) JHARKHAND
 Phone: 0651256761
 FAX :

Agent : D. N. Parida
 M/s Rungta Office Main Road
 Barbil KEONJHAR ORISSA
 Phone: 06767275221, 06767-277441, 06767277481
 FAX : 06767276161

Mining Engineer
 Name : D. R. Mahli, Full Time
 Qualification : B. Tech. (Min. Engg.)
 Appointment/ : 21/02/2008
 Termination date

Geologist
 Name : H. K. Dutta, Full Time
 Qualification : M. Sc. (App. Geo)
 Appointment/ : 24/09/2008
 Termination date

Geologist
 Name : S. R. Mohanty, Full Time
 Qualification : M. Sc. (App. Geo)
 Appointment/ : 04/11/2012
 Termination date

Manager
 Name : S. C. Pradhan
 Qualification : AMIE (Min. Engg.)
 Appointment/ : 24/11/2007
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining	:	Modif.of approved Mining Plan	21/11/2003
		Modif.of approved Mining Plan	06/08/2004
		Mining Scheme rule 12 MCDR1988	21/10/2005
		Mining Scheme rule 12 MCDR1988	10/12/2014
		FMCP under 23C(1)	01/10/2018
		MP review under 17(1) MCR 2016	26/11/2018

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	15 boreholes were proposed for drilling in 2017-18	No boreholes were drilled	Boreholes not drilled for want of Forest clearances.
1b	Exploration over lease area for geological axis 1 or 2	G1: 90.342 ha and G2; NIL	No boreholes were drilled in 2018-19	-
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No such proposal	-	-
1d	Balance area to be explored to bring Geological axis in 1 or 2	48.506 ha	-	It was proposed to drill 34 boreholes in 2018-19 but for want of Forest clearances drilling of Boreholes could not be taken up.
1e	Balance reserve as on 01/04/20	Reserves as on 1/10/2018 : 65.640 million tonnes (111) and 2.837 million tonnes (122)	-	-
1f	General remarks of inspecting officers on geology, exploration etc	-	-	174 boreholes were drilled inside the lease area so for. 34 boreholes were proposed for drilling in 2018-19 but drilling could not be taken up for want of Forest Clearances.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	Development proposed in ththree pits one each situated in A ,B and C Blocks	Working was restricted in diverted area only in A ,B and C Blocks	-
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes	Yes	-
2c	Stripping ratio or ore to OB ratio	1:0.08	-	-
2d	Quantity of topsoil generation in m3	NIL	NIL	-
2e	Quantity of overburden generation in m3	172170 cum	3798 tonnes	DEvelopment was restricted in diverted area only therefore less develoment with resoect to proposal.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	-	-	-

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Three	Three	-
3b	Quantity of ROM mineral production proposed	7552308 tonnes	89011 tonnes	Production Proposal could not be achieved due to restrictions imposed by Forest department and Mining was restricted in diverted area only.
3c	Recovery of sailable/usable mineral from ROM production	90%	90%	-

3d	Quantity of mineral reject generation	84745 cum	NIL	-
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	-
3f	Quantity of sub grade mineral generation.	200000 tonnes	Subgrade generation not reported	-
3g	Grade of sub grade mineral generation	45 to 55% Fe%	Subgrade generation not reported	-
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	-
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	None	None	-
3j	Provision of drilling and blasting in mineral benches	Yes	Yes	-
3k	Provision of mining machineries in mineral benches	Yes	Yes	-
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes	-
3m	Total area covered under excavation/pits	NA	27.439 ha	-
3n	Ore to OB ratio for the pit/mine during the year.	1:0.20	NA	-

3o	Total area put in use under different heads at the end of year	NA	Covered under current (O/C) Workings 27.439 ha Reclaimed/Rehabilitated 2.970 ha Used for waste disposal 5.230 ha Occupied by plant, buildings, residential, welfare buildings & roads 7.330 ha (vi) Other Purpose (Mineral storage & Mineral separation plant) 0.330 ha	-
3p	Production of ROM mineral during the last five year period as applicable	2014-15- 6028550 tonnes 2015-16- 7552308 tonnes 2016-17- 7552308 tonnes 2017-18- 7552308 tonnes 2018-19- 7552308 tonnes	2014-15- 2320962 tonnes 2015-16- 762446 tonnes 2016-17- 239850 tonnes 2017-18- 82392 tonnes 2018-19- 89011 tonnes	Actual production is less than proposed production due to non availability of FC.
3q	General remarks of inspecting officers on method of mining etc.	-	-	Due to non availability of Forest clearance the mining and allied activities were restricted to diverted area only resulting deviation from approved proposals.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No proposal for external dumping	Backfilling on exhausted pit area	-
4b	Location of topsoil, OB and mineral reject dumps	No proposal for external dumping	-	-
4c	Number of dumps within lease area and outside of lease area	No proposal for external dumping	-	-
4e	Number of active and alive dumps.	None	None	-

4f	Number of dead dumps.	Three	-	-
4g	Number of dumps established.	Three	-	-
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	Yes	-
4i	Length of Retaining wall or garland drain all along dumps	Retaining wall 440 m Garland drain 650 m	Retaining wall 440 m Garland drain 650 m	-
4j	Number of settling ponds	Two	Two	-
4k	Specific comments of inspecting officer on waste 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.	Heghetening of already backfilled area and no proposal for backfilling on fresh area	Heghetening of backfilled area	-
5b	Area under backfilling of mined out area	Increase in height of already backfilled 1.96 ha area	As per envisaged proposal	-
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Top soil Generation not envisaged	No generation of top soil	-
5d	Total area fully reclaimed and rehabilitated	NIL	NIL	-
5e	General remarks of inspecting officers on backfilling and reclamation etc.	-	-	-

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	-	-
6b	Area available for rehabilitation (ha) .	3 ha	2 ha	-
6c	afforestation done (ha).	3 ha	2ha	-
6d	No. of saplings planted during the year	10000 saplings	10000 saplings (approx)	-
6e	Cumulative no .of plants	NA	NA	-
6f	Any other method of rehabilitation	None	None	-
6g	Cost incurred on watch and care during the year	NA	NA	-
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	NA	NA	-
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NA	NA	-
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	NIL	NIL	-
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NIL	NIL	-

6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	None	None	-
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	NIL	NIL	-
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NIL	NIL	-
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NA	NA	-
6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes	Yes	-
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-	-	-

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade-wise sorting	Grade-wise sorting	-
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical	Mechanical	-
7c	Different grade of mineral sorted out at mines.	NA	NA	-

7d	Any beneficiation process at mines	Crushing and Screening	Crushing and Screening	-
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	-	-	-

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Generation of top soil not envisaged	No top soil generation	-
8b	Concurrent use or storage of topsoil	Generation of top soil not envisaged	No top soil generation	-
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	External dumping of waste not envisaged	Generated OB/waste are backfilled in mined out pits and there is no external dumping	-
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Use of Waste rocks and OB for backfilling	Use of Waste rocks and OB for backfilling	-
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Heghetening of backfilled area	Heghetening of backfilled area	-
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Plantation of 10000 saplings	10000 saplings (approx)	-
8g	Survival rate	85%	85%	-

8h	Water sprinkling on roads to control airborne dust	Yes	Yes	-
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	-	-	-

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	-	Monthly Returns and Annual Returns for the year 2018-19 submitted	-
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer sh. DR mahali and Geologist SR Mohanty	Mining Engineer and Geologists are appointed	-
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under current (O/C) Workings : 27.439 ha Reclaimed/Rehabilitated 2.970ha Used for waste disposal 5.230 ha Occupied by plant, buildings, residential, welfare buildings & roads 7.330 ha Other Purpose (Mineral storage & Mineral separation plant) 0.330 ha	Details furnished in Annual Returns on land use pattern appears to be more or less correct	-
9d	Scrutiny of Annual return on afforestation	10500 saplings were planted	Details furnished in Annual Returns on afforestation is in sync with details given in PMCP Repoirt and appears to be correct	-

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Mineral Reject generation NIL	Reject generation not noticed during inspection	-
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM Stock 3751.630 tonnes 58% to below 60% 225.010 tonnes 60% to below 62% 314.860 tonnes 62% to below 65% 3352.970 tonnes	Details on Stocks appears to be correct	-
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost of Production : Rs. 1893/tonnes Ex mine price varies from Rs 1590/ tonnes to Rs. 5406/tonnes depending on physical and chemical constituents of material sold.	Details appears more or less correct	-
9h	Scrutiny of Annual return on fixed assets	Net closing value of Fixed assets reported at Rs. 66511970	-	-
9k	Scrutiny of Annual return on mining machineries			

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

Date :

(OM PRAKASH GOPAL)

Indian Bureau of Mines