

**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 : **K004** ) **B.P KERKETTA**  
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Shri Subhas Pradhan, Mines Manager and Shri Rishikesh  
Official with  
Designation
- (iv) Date of Inspection : 20/12/2017
- (v) Prev.inspection date : 16/01/2017

**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 : M. D. Rustogi  
 M/s Rungta Office Main  
 Road, Barbil KEONJHAR  
 ORISSA  
 Phone: 06767275221, 06  
 FAX : 06767276161

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

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	12	NIL	Violation letter had been issued to the Lessee on 09/01/2018. Vide their reply dated 06/02/2018 it is said that due to non-availability of Forest Clearance it could not be completed.
1b	Exploration over lease area for geological axis 1 or 2	48.506ha. to be explored after getting Statutory Permission.	NIL for want of Forest Clearance.	90.342ha. area already explored under G1 Level.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No specific proposal	NIL	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal	NA	
1e	Balance reserve as on 01/04/20	79.075 million Te (as per the approved scheme of mining approved on 10.12.2014)	75.753 million Te	
1f	General remarks of inspecting officers on geology, exploration etc		Mining is carried out as per approved Scheme of mining as far as possible.	

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	Block-A- E30-W-500 N00 - S 650 TRL-742, BRL-640  Block-B- E1370-W620 N1460-E2390 TRL-775 BRL-675  Block-C- E05-W415 N920-E1910 TRL-724 BRL-703	Block-A- E100-W-500 N000-S650 TRL-742, BRL-640  Block-B- E1370-W620 N1460-E2390 TRL753 BRL699  Block-C- E05-W415 N920-E1910 TRL-792 BRL-702	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Block-A- OB bench is land 12 no. of benches in ore.  Block-B- OB bench is land 7 no. of benches in ore.  Block-C- OB bench is 3and 13 no. of benches in ore.	In Block A - OB bench is land 12 no. of benches in ore.  In Block B- OB bench is 2 and 4 no. of benches in ore  In Block C- QRY 11 OB bench is 1 and 6 no. of benches in ore QRY JH 1 OB bench is 1 and 5no. of benches in ore QRY JH 5,6 OB bench is 2 and 9no. of benches in ore	
2c	Stripping ratio or ore to OB ratio	1:0.08	1:0.21	
2d	Quantity of topsoil generation in m3	Nil	Nil	
2e	Quantity of overburden generation in m3	622370 m3	49395.535 m3	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		Mining is carried out as per approved Scheme of mining as far as possible.	Development of pits as per approved scheme of mining.

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Exploitation:

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Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	3 nos	3 nos	
3b	Quantity of ROM mineral production proposed	7552308 MT	239849.620 MT	
3c	Recovery of sailable/usable mineral from ROM production	90%	90%	Due to mining loss.
3d	Quantity of mineral reject generation	NIL	NIL	
3e	Grade of mineral rejects generation and threshold value declared.	+45 and above	+45 and above	
3f	Quantity of sub grade mineral generation.	755231MT (45-55%Fe)	Nil	
3g	Grade of sub grade mineral generation	+45% to 55%	+45% to 55%	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized	Mechanised	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	It is proposed to dispatch the low grade or subgrade ore directly instead of any type of mixing.	Done as per proposal.	
3j	Provision of drilling and blasting in mineral benches	Deep Hole drilling and Control blasting	Deep Hole drilling and blasting- Shock tube is used in blasting to control the flying fragments & ground vibration. Rock Breaker is used.	
3k	Provision of mining machineries in mineral benches	Shovel dumper combination	Shovel dumper combination	

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height-9mtr Width-9-18 mtr	Height-9mtr Width-9-18 mtr	
3m	Total area covered under excavation/pits	27.439 Hect	27.439 Hect	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.08	1:0.21	
3o	Total area put in use under different heads at the end of year	115.532Ha at the end of 2018-19	40.309 Ha	
3p	Production of ROM mineral during the last five year period as applicable	2012-13 -4.04 million Te 2013-14 -7.55 million Te 2014-15 - 6.02million Te 2015-16- 7.55million Te 2016-17- 7.55million Te	1709281.990 MT 2882871.430 MT 2320961.990 MT 762445.630 MT 239849.620 MT	
3q	General remarks of inspecting officers on method of mining etc.	Proposal is adequate.	Mining is carried out as per approved Scheme of mining as far as possible.	ROM production during the year is very less.

## Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No top soil. The low grade iron ore will be stacked separately which will be surrounded by retaining wall and garland drain.	Done as per proposal.	
4b	Location of topsoil, OB and mineral reject dumps	D1, D 2 & D 3	D 1, D2	

4c	Number of dumps within lease area and outside of lease area	3 nos	2 nos	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	D1:E110 W-160 N50 S-100 D2:E880- W1240 N1410 -S2000	D1:E110 W-160 N50 S-100 D2:E1000-W1070-N1550 - S1620	
4e	Number of active and alive dumps.	D1 & D2 (2 nos)	D1&D2(2nos)	
4f	Number of dead dumps.	Nil	Nil	
4g	Number of dumps established.	Nil	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes, Proposed in the Approved Scheme of mining.	Yes, Retaining wall & garland drain made all along the dumps.	
4i	Length of Retaining wall or garland drain all along dumps	Not Proposed during 2016-17.( Earlier constructed Retaining wall during 2015-16, of size 600mx 1.5mx1.5m utilised)	nil	
4j	Number of settling ponds	NIL	NIL	
4k	Specific comments of inspecting officer on waste dump management		Mining is carried out as per approved Scheme of mining as far as possible.	Old dumps are stabilised by tree plantation.

#### 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.	1.5 Ha	1.53 Ha area is already mined out and reclaimed by plantation.	
5b	Area under backfilling of mined out area	1.5 Ha	No backfilling done during the year.	

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal	NA
5d	Total area fully reclaimed and rehabilitated	4.5 Ha	1.53Ha
5e	General remarks of inspecting officers on backfilling and reclamation etc.		Mining is carried out as per approved Scheme of mining as far as possible.

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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	Yes	
6b	Area available for rehabilitation (ha) .	1ha	1ha	
6c	afforestation done (ha).	2ha	2ha	
6d	No. of saplings planted during the year	10000 nos	16000 nos	
6e	Cumulative no .of plants	158371nos of trees existing.Durinig Scheme Period (2014-15 to 2018-19) , 15000nos of trees to be planted.	158371nos of trees existing. 16000nos of trees planted during 2015-16.	
6f	Any other method of rehabilitation	nil	nil	
6g	Cost incurred on watch and care during the year	4.05Lakh	3.25Lakh	



6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	No Proposal.	Not applicable
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No Proposal.	Not applicable
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.	Not applicable
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No Proposal.	Not applicable
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	2500nos.	2500nos.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	1ha	1ha
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Afforesrtation	Afforesrtation

6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposal for environmental monitoring of 6 locations for air quality, 3 no of locations for water quality & 4 nos of locations for noise level survey on regular quarterly basis.	The environmental monitoring of AAQ- in 10 location (Monthly) Water Quality- 4nos(Monthly) Noise level survey-6 nos(Monthly) has been done regular basis.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		Mining is carried out as per approved Scheme of mining as far as possible.	Progressive Closure operations are as per approved scheme of mining.

#### Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	7552308 MT	Lump 20628.670MT 38095.470MT Fines 7405.000MT 118060.500MT 49825.000MT	(60-62) (62-65)  (55-58) (60-62)%Fe (62-65)%Fe
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical	Mechanical	
7c	Different grade of mineral sorted out at mines.	60-62% Fe, 62-65% Fe, 55-58% Fe	60-62% Fe, 62-65% Fe, 55-58% Fe	
7d	Any beneficiation process at mines .	7 Nos mobile screening & 5 Nos Crushing unit	3 Nos mobile screening unit & 3 Nos Crushing unit	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		Mining is carried out as per approved Scheme of mining.	

## Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	N.A	N.A	
8b	Concurrent use or storage of topsoil	N.A	N.A	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	D1:E110 W-160 N50 S-100 D2:E880- W1240 N1410 -S2000	D1:E110 W-160 N50 S-100 D2:E1000-W1070-N1550 - S1620	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	The overburden generated was proposed to be dumped in preselected dumping area as well as to back fill the exhausted quarry.	The waste generated is dumped in the preselected dumping area.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	1.5 Ha area is proposed to be backfilled during this year followed by plantation.	No backfilling was done.	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Existing Plantation 81450 nos. additional 10000 saplings are proposed to be planted this year.	16000 saplings are planted .	
8g	Survival rate	Not proposed.	95%	
8h	Water sprinkling on roads to control airborne dust	400 KLD	153 KLD	

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Mining is carried out as per approved Scheme of mining as far as possible.	The Aesthetic Beauty in and around the mines area is good.
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Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	M. R. submitted upto Nov.'17 A. R. submitted upto 2016-17	M. R. submitted upto Nov.'17 A. R. submitted upto 2016-17	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Sri D.R.Mahali, Mining Engineer In Charge, Sri S.R.Mohanty, Geologist in Charge., Sri Subhas Chandra Pradhan, Mines manager.	Found correct.	
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 area: 2.97ha Used for waste disposal: 5.23 ha. Occupied by plant, buildings, residential, welfare buildings & roads: 7.33 ha. Other Purpose (Mineral storage ): 0.33 ha.	Found correct.	
9d	Scrutiny of Annual return on afforestation	16000nos of trees planted during 2016-17. Survival Rate 95%	Found correct.	

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Found correct.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Opening Stock 4797.24MT. ROM Production 239849.62MT., Closing stock 10632.22MT	Found correct.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	SALE VALUE: Rs. 20701882/- ,Rs. 59039621& Rs.143978327/- for -62% Fe Grade Lump, - 65% Fe Grade Fines &-62% Fe Grade Fines respectively EX. MINE: Rs.1354.35/MT& Rs. 2490.44/MT for 60% Fe to below 62% Fe grade Lump & 62% Fe to below 65% Fe gradeLump respectively.A nd Rs.1219.35/MT, Rs. 829.11/MT & Rs.1003.71/MT for 55% Fe to below 58% Fe grade Fines , 60% Fe to below 62% Fe grade Fines & 62% Fe to below 65% Fe grade Fines respectively. PRODUCTION COST: Rs. 1189.49/MT including Royalty.	Found correct.
9h	Scrutiny of Annual return on fixed assets	Rs.74422220/-	Seems to be correct.

9k	Scrutiny of Annual return on mining machineries	TRACTOR / COMPRESSOR: 110 cfm, 1 no. COMPRESSOR with Wagon Drill 450 Cfm: 1no. BACK HOE : 0.9cum 4 nos., 1.1cum 1no., 2.1cum 1 no., Buldozer : 212H.P. 1no., HAULER 25MT: 4nos., 15MT : 23nos., 10MT: 100nos., Front End Loader 1.7cum. 5nos., 3.1 cum 1 no., Grader 135H.P. ; 1no., Rock Breaker 120H.P. 1no., Soil Compactor 212H.P. 1no., Water Tanker 125H.P. 4nos., Crusher Plant (Diesel )125TPH Capacity, 3 SR, 350H.P., 1PT 425H.P., 2 MT 250H.P. Screening Plant(Diesel) 250TPH Capacity 3no Loader 1.74cum. : 1	Found correct.
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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)	09/01/2018			
MCDR17	Rule 35(2)	09/01/2018		26/03/2018	

**Date :**

**(B.P KERKETTA)**

Indian Bureau of Mines