

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

Inspection under SDF for star rating of mines REPORT

Bangalore regional office

Mine file No : KNT/RCH/G-4/BNG

Mine code : 27KAR16004

- (i) Name of the Inspecting : **278**) **KRISHNENDU CHATTERJEE**
Officer and ID No.
- (ii) Designation : Junior Mining Geologist
- (iii) Accompanying mine : S/Shri Gandhi Ruben - Mines Manager and Dean Derrick
Official with
Designation
- (iv) Date of Inspection : 22/11/2018
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **HIRABUDDINI**
- (b) **Registration NO.** : **IBM/4362/2011**
- (c) **Category** : **A Fully Mechanised**
- (d) **Type of Working** : **Underground**
- (e) **Postal address**
- State : **KARNATAKA**
- District : **RAICHUR**
- Village : **BUDDINNI**
- Taluka : **MANVI**
- Post office : **HIRA**
- Pin Code : **584123**
- FAX No. : **08537-275054 (F),**
- E-mail : **hygomin@bsnl.in & hgmlsrmh:**
- Phone : **08537-275026 (O),948223803!**
- (f) **Police Station** : **Sirivara**
- (g) **First opening date** : **01/01/1997**
- (h) **Weekly day of rest** : **SUN**
2. **Address for** : **HUTTI GOLD MINES COMPANY LTD**
correspondance **Village-Hira Buddinni; Post-Heera, Tq-Manvi**
Dist-RAICHUR, Karnataka -584115
3. (a) **Lease Number** : **KAR1493**
- (b) **Lease area** : **21.58**
- (c) **Period of lease** : **20**
- (d) **Date of Expiry** : **28/03/2028**
4. **Mineral worked** : **GOLD** **Main**

5. Name and Address of the

Lessee : HUTTI GOLD MINES COMPANY LTD
 At & Po- Hutti Tq-Lingsugur
 584 115 RAICHUR KARNATAKA
 Phone:08537-275025
 FAX :08537-275054

Owner : HUTTI GOLD MINES COMPANY LTD
 Shri A.K.Monnappa, IAS, MD
 3rd Floor, KHB Shopping
 Complex, National Games
 Village, Koramangala
 BANGALORE KARNATAKA
 Phone: 080-25710501, 2
 FAX :

Agent : PRAKASH
 M/s HGML, At & Po- HUTTI
 Tq-Lingsugur RAICHUR
 KARNATAKA
 Phone: 08537-275034
 FAX : 08537-275054

Geologist

Name : PRABHU M, Full Time
 Qualification : M.Sc. Applied Geology
 Appointment/ : 05/05/2010
 Termination date

Manager

Name : APSAR MIYA
 Qualification : Dipl. in Mining and first class
 Appointment/ : 01/05/2012
 Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	22/02/2013
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	23/06/2016

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal	Nil	
1b	Exploration over lease area for geological axis 1 or 2	G1	G1	
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	G1	G1.	
1e	Balance reserve as on 01/04/20	No proposal	Reserves: 0.52 Million Tonnes with average grade: 3.57 g/t Au	
1f	General remarks of inspecting officers on geology, exploration etc		3322 m of vertical drilling was carried out by GSI covering strike length of 600m at space interval between 50 to 100m. 6 nos. of surface diamond drilling was carried out by M/s HGML with total meterage of 2323.8 m to confirm the geometry of ore body at deeper level.	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Main Shaft (in mtrs) Drives & X-cuts : 248m Raises & Winzes: 35m Location: 1st L, 2nd S/L & 4th S/L.	Drives, X-cuts: 386 m at 5th level. Raises & Winzes= 80.60 m. Location: 1st L to 3rd S/L, 5th L for development.	Off load development work was not proposed in 5th level during F.Y. 2017-18.

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No proposal due to underground mining operation.	Nil
2c	Stripping ratio or ore to OB ratio	1: 0.065	1: 0.015
2d	Quantity of topsoil generation in m3	No proposal	Nil
2e	Quantity of overburden generation in m3	3900 tonnes (black rock)	524 tonnes (black rock)
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		S6 stope work was not carried out in accordance with the proposal, most of the stope was not mined during F.Y. 2017-18 and also S7 stope development work was not carried out. Violation of rule 11(1) was issued to the lessee on 06.12.2018.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	S6 stope for production and S7 stope for development.	Worked at S6 stope during F.Y. 2017-18.	
3b	Quantity of ROM mineral production proposed	52,792 tonnes and 7208 tonnes of ROM from development. Total 60000 tonnes.	Achieved 35,709 tones (13093 tonnes from development & 22616 tonnes from stope)	
3c	Recovery of sailable/usable mineral from ROM production	100% of ROM	100% ROM has been utilized.	
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	Not Applicable.
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized	Mechanized U/G method adopted.
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	Drilling and proposed with nitro-glyclerene based products.	No change, controlled stope blasting and secondary blasting was carried out.
3k	Provision of mining machineries in mineral benches	Proposed.	Mining machineries was used
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	No proposal	Not Applicable.
3m	Total area covered under excavation/pits	0.50 Ha.	0.50 Ha.
3n	Ore to OB ratio for the pit/mine during the year.	1: 0.065	1: 0.015
3o	Total area put in use under different heads at the end of year	21.44 Ha. area.	No change.

3p	Production of ROM mineral during the last five year period as applicable	2013-14: 67,456 2014-15: 64,724 2015-16: 108,725 2016-17: 57,403 2017-18: 60,000 (in tonnes)	2013-14: 25,869 2014-15: 24,434 2015-16: 23,819 2016-17: 31,737 2017-18: 35,709 (in tonnes)	Mining operation temporary discontinued w.e.f 28.07.2018.
3q	General remarks of inspecting officers on method of mining etc.		Off load development work was not proposed in 5th level during F.Y. 2017-18, but during inspection the same level was found to be under development. Violation of rule 11(1) was issued to the lessee dated 06.12.2018.	

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Seperate surface dumping and filling of void stopes by OB proposed.	No hoisting of waste to surface during 2017-18, waste material was disposed into the empty stopes.	
4b	Location of topsoil, OB and mineral reject dumps	Active external dumping proposed at western side of the ML area, near BP-G.	No active surface dumping during 2017-18. Two small old dumps located at centre of the mining lease.	Area covered by waste dumps 2 Ha.
4c	Number of dumps within lease area and outside of lease area	2 dumps within ML.	2 dumps within ML.	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No proposal	Not Applicable.	
4e	Number of active and alive dumps.	01 active dump.	No active surface dumping during 2017-18.	
4f	Number of dead dumps.	2 inactive dumps.	2 inactive dumps.	
4g	Number of dumps established.	No proposal.	One inactive dump was established.	

4h	Whether Retaining wall or garland drain all along dumps are there.	Proposed along the toe of the active dump.	Active dumping not yet commenced.
4i	Length of Retaining wall or garland drain all along dumps	Not specified.	Active dumping not yet commenced.
4j	Number of settling ponds	No proposal	Nil
4k	Specific comments of inspecting officer on waste dump management		Two nos. of small waste dumps located on surface at centre of the mining lease area. Proposed active surface dumping not yet commenced by the lessee.

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.	Not applicable.	
5b	Area under backfilling of mined out area	No proposal	Stoped out areas from S1 to S4 located from L1 to L4 were partially filled by waste.	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal.	Not applicable.	
5d	Total area fully reclaimed and rehabilitated	No proposal	Nil.	
5e	General remarks of inspecting officers on backfilling and reclamation etc.		Empty stopes S1 to S4 available for backfilling by waste.	

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
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6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Proposed	Annual report for 2017-18 submitted on 24.05.2018
6b	Area available for rehabilitation (ha) .	No roposal	Not applicable since this is an underground mine.
6c	afforestation done (ha).	0.366 ha. within ML.	0.3 Ha. at north eastern side of the ML.
6d	No. of saplings planted during the year	835 nos.	5600 nos. within and outside ML.
6e	Cumulative no .of plants	Not specified.	Apprx. 20,000 nos. within and outside ML.
6f	Any other method of rehabilitation	No Proposal	Nil
6g	Cost incurred on watch and care during the year	No proposal	Not reported.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal	No such reclamation and rehabilitation by backfilling.
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	No proposal	No waste land within ML area.
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)	Proposed in the core and buffer zone of the ML area.	Environmental monitoring work was carried out on monthly basis and parameters were found within limit.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		The mine was being operated by underground method and this mine was not matuted for backfilling and other PMCP compliances.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM mineral dispatch to the common milling plant located at Hutti.	ROM mineral dispatch to Hutti milling plant by the company's truck on road.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No proposal for grade wise sorting of ROM	Direct transportation of ROM to Hutti milling plant.	

7c	Different grade of mineral sorted out at mines.	No proposal	All materials excavated from the drives hoisted and dispatched as ROM; materials excavated from the cross cuts were waste rocks.
7d	Any beneficiation process at mines .	No proposal	Common beneficiation plant located at Hutti belongs to the same lessee company.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		During underground mining operations ROM and waste were bought out to the surface separately through skip hoisting and the ROM directly sent to the milling plant. Waste material disposed at the designated dumps or sometimes the waste rocks were disposed into the underground itself at empty stopes.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal.	Not Applicable.	
8b	Concurrent use or storage of topsoil	No proposal	Not Applicble.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Seperate dumps for waste rock proposed.	Seperate dumps for waste rock maintained.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	Not applicable.	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No such proposals	Not applicable.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	No proposal	Lessee had carried out 5600 nos. of plantation within and outside the ML area during the year 2017-18, with survival rate of apprx. 70 to 80%. So far, . 20,000 nos. of plantation was carried out by the lessee in this area.
8g	Survival rate	70%	70 to 80% within ML area.
8h	Water sprinkling on roads to control airborne dust	Proposed.	Carried out on regular basis.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		The aesthetic beauty in and around mine was good as lessee had carried out afforestation and other environmental protective measures as per approved SOM.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted up to Dec. 2018 A.R. submitted upto FY 2017-18	No change.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mine Manager: Sri. Gandhi Ruben Mine Engineer: Sri Dean Derrick Geologist: P. Narashima Rao.	No change.	

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Dumps: 2 Ha Infrastructure /plant/buildings: 14 Ha	Actual also same at that time.
9d	Scrutiny of Annual return on afforestation	5600 nos.	Planted within and outside the ML area.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	No mineral reject generation.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Nil	Nil ROM stock within ML.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex-mine Price and cost of production: Rs 5911 per tonne as captive mine.	Appeared to be correct
9h	Scrutiny of Annual return on fixed assets	Rs. 21,017/-	Fixed assets was not furnished correctly.
9k	Scrutiny of Annual return on mining machineries	Nil	Mining machineries details not furnished in the AR. Violation of Rule 45(5) issued to the lessee dated 06.12.2018.

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)	06/12/2018	07/03/2019			
MCDR17	Rule 45(5)(ε	06/12/2018	07/03/2019			

Date :

(KRISHNENDU CHATTERJEE)

Indian Bureau of Mines