

**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/AU/2/BNG

**Mine code :** 27KAR16002

- (i) Name of the Inspecting : **A101** ) **ARUN KUMAR**  
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Sri. T. Ravikumar -Agent & Dy. General Manager  
Official with  
Designation
- (iv) Date of Inspection : 30/01/2020
- (v) Prev.inspection date :

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **UTI**
- (b) **Registration NO.** : **IBM/4362/2011**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Underground
- (e) Postal address  
State : KARNATAKA  
District : RAICHUR  
Village : UTI  
Taluka : DEODURGA  
Post office : SUNNADAKALLU(JALAHALLI)  
Pin Code : 584116  
FAX No. : 08537-275054 (F),  
E-mail : hygomin@bsnl.in ; hgmlsrmh:  
Phone : 08537-275026 (O),948223803!
- (f) Police Station : JALAHALLI
- (g) First opening date : 11/06/1991
- (h) Weekly day of rest : SUN
2. Address for : Uti Gold Mine Of M/s HUTTI GOLD MINES COMPANY LT  
correspondance Tq- Deodurga, Dist-Raichur  
KARNATAKA - 584115
3. (a) Lease Number : KAR0125  
(b) Lease area : 47.96  
(c) Period of lease : 20  
(d) Date of Expiry : 12/06/2011
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

## Mining Engineer

Name : DEAN DERRICK, Full Time  
 Qualification : BE Mining  
 Appointment/ : 03/07/2010  
 Termination date

## Geologist

Name : Venkateshamurthy N, Full Time  
 Qualification : M.Sc. Applied Geology  
 Appointment/ : 14/07/2006  
 Termination date

## Manager

Name : NAGARAJ  
 Qualification : Dip. in Mining & First MM  
 Appointment/ : 12/12/2013  
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	07/05/1990
Plan/Scheme of Mining		Fresh under rule 22 MCR1960	27/05/1996
		Modif.of approved Mining Plan	21/02/1997
		Mining Scheme rule 12 MCDR1988	06/03/2003
		Mining Scheme rule 12 MCDR1988	01/11/2006
		Renewal under rule 24 MCR1960	05/09/2012
		Mining Scheme rule 12 MCDR1988	16/06/2016
		MP review under 17(1) MCR 2016	15/02/2017

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	215mtrs in Lode No.4 (E-Block), 179 mtrs in Lode NO. (Winze No.3 at 360MRL, 80 mtrs in Lode No.3 below 4th Level.	185 Mtrs Lode No.2 (03 Boreholes) .Drilled at winze No.3 which was back log of 2016-17	No exploration has been carried out in 2017-18 & 2018-19. Violation issued for non compliance of exploration.
1b	Exploration over lease area for geological axis 1 or 2	G1,G2,G3,G4	G1-12.50 Ha,G2-8.80 Ha,G3-6.60 Ha & G4-20.06 Ha	Nil
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal	In house exploration carried out(Rs.3500/Mtr)	6, 47,500 rupees spent on exploration (Diamond drilling for 03 boreholes.) in the past
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not specified	26.66 Ha	Nil
1e	Balance reserve as on 01/04/20	Nil	1.92 Million Tonnes of gold @ 2.50 g/t/	As per annual return submitted for the FY 2018-19.
1f	General remarks of inspecting officers on geology, exploration etc			No exploration has been carried out in 2017-18 & 2018-19 in Lode No.3. Violation issued for non compliance of exploration

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	LodeNo.4 On Lode: 2018-19 3rd Level D/S . 5th Level D/S 6th Level D/S). 3rd Level 6th L R/W Offlode : 2018-19 6th L D/N of Service Shaft 6thL orebin Development 5thLOrebin development	No work done in Lode No,4 during the reported Year	Violation issued
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Not Applicable	Nil	Since method of working is Underground.
2c	Stripping ratio or ore to OB ratio	1:0.1311	Nil	No development work is carried out violation issued.
2d	Quantity of topsoil generation in m3	Not applicable	Nil	underground mine
2e	Quantity of overburden generation in m3	Not applicable	Nil	Nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			No work was carried in Lode No,4 during the reported Year thus impacting the stripping ratio. Violation issued.

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**Exploitation:**

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	01 Stope in Lode No.3(Block-G)	Working is continuing in Lode No.3 ( Block-G)	Nil
3b	Quantity of ROM mineral production proposed	16530T from Development & 43470T from Stope.	15360T from Stope Block	Violation Issued.

3c	Recovery of sailable/usable mineral from ROM production	96% recovery from Stope	85% Recovery from stope,	Low recovery due to void space, cannot go inside because of Safety
3d	Quantity of mineral reject generation	Not Applicable	Nil	Nil
3e	Grade of mineral rejects generation and threshold value declared.	Not Applicable	Nil	Nil
3f	Quantity of sub grade mineral generation.	Not Applicable	Nil	Nil
3g	Grade of sub grade mineral generation	Not Applicable	Nil	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized method proposed for extraction and development from ROM from the stope	Mechanized method adopted	For Drilling-BBC-120 Drifter & BVB-25 wagon drill For Blasting-Emulsion gel and ammonium nitrate Catridge. For Loading-24 RS hopper loader.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	No such beneficiation study carried out	Nil
3j	Provision of drilling and blasting in mineral benches	Drilling and blasting proposed for development work and stope production,	Drilling and blasting carried out for drives, cross cuts, raises and winzes	Large dia blast hole method of drilling (LDBH 57mm and 115mm) is carried out. Explosives like Slurry explosives /Emulsion explosive are used for blasting
3k	Provision of mining machineries in mineral benches	Provision of mining machineries made to win the ore	Mining machineries like drill, LHD's locomotives, skips etc. of various capacities are used	Nil

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Maximum length and height of the of stope is proposed is 80m X60m in most of the stopes.	The dimensions of the stopes mentioned are within the specified limits	Since, it is an underground mine. The size of the stopping blocks after the study conducted by NIRM recommended a size of 60m height by 80m. length for stopes up to 3rd L i.e. 90 mts. depth with a rib pillar of 10 mts. thickness, and crown pillar of 8 to 10 Mts. thickness. However, keeping safety in view the stopping block as decided in consultation with DGMS the strike length is reduced to 60 mts.
3m	Total area covered under excavation/pits	32.51 Ha at the end of the plan period	32.51 Ha covered under working	No change
3n	Ore to OB ratio for the pit/mine during the year.	Ore: Waste : 1:2.1	No BR excavated against the proposal of 7866 tonnes	Violation Issued
3o	Total area put in use under different heads at the end of year	Area Excavated-5.57 Ha, OB dump-1.65ha, Mineral storage:1.76Ha ,Infrastructur e Workshop, administrative building, shafts, etc.):0.16Ha Roads:1.66Ha Green Belt-14.10, U/G Land use-0.90ha. at the end of mine area	Area covered under current workings : 4.62 Ha, Waste disposal- 6.75ha. Occupied plant building residential welfare building roads : 08ha	Nil
3p	Production of ROM mineral during the last five year period as applicable	2014-15: 20160 2015-16: 19908 2016-17:12200 2017-18:17065 2018-19:16530 ( in tonnes)	2014-15: 13866.25 2015-16:7395 2016-17:Nil 2017-18:20657 2018-19:15360 ( in tonnes)	-

3q	General remarks of inspecting officers on method of mining etc.	Against the ROM proposal of 16530T from Development & 43470T from Stope, only 15360 tons of ROM achieved from stope block. Violation issued
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## Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Not Applicable	Nil	Nil
4b	Location of topsoil, OB and mineral reject dumps	Not Applicable	Nil	Nil
4c	Number of dumps within lease area and outside of lease area	With in the Lease Area 04 Dumps Outside the Lease Area 01.	With in the Lease Area 04 Dumps Outside the Lease Area 01.	(03 Ore Dump 01 BR Dump) Violation issued for dumping outside the ML area.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	The dumping area is proposed within the lease area divide of any mineral resources. On the western portion of lease area & other near the inclined shaft	No waste was handled in the in the reporting year	Previous year dumps.
4e	Number of active and alive dumps.	02 Dumps proposed.	02 Dumps are active & Alive.	Nil
4f	Number of dead dumps.	2Nos	2Nos	Nil
4g	Number of dumps established.	1 dump proposed	01 dump stabilized	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	RW & GD proposed	Old dump Retaining wall garland was constructed for waste dump situated outside the lease area.	Nil

4i	Length of Retaining wall or garland drain all along dumps	738 mt of Length Retainingwall around the dump and 745 meter garland drain also to make around the dump,	Not done	Clarification sought
4j	Number of settling ponds	No proposal	Nil	Nil
4k	Specific comments of inspecting officer on waste dump management			During site inspection it was observed that the waste material was dumped outside the ML area. Clarification sought

#### 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	NA	Nil
5b	Area under backfilling of mined out area	As per DGMS Norms	Stope filling in progress	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal	Not applicable	Nil
5d	Total area fully reclaimed and rehabilitated	No Proposal	Not applicable	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Backfilling of the stopes were carried out as per the permissions obtained from DGMS

#### 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).	PMCP report to be submitted 1st July every year	PMCP report not submitted	Violation Issued
6b	Area available for rehabilitation (ha) .	Not applicable	Nil	Nil
6c	afforestation done (ha).	1.522 HA.	Nil	As No PMCP report submitted by the Lessee area not calculated
6d	No. of saplings planted during the year	1200 saplings	WML-3500 (SR75%) Species and OML-1000 (SR80%) numbers of saplings were planted.	Nil
6e	Cumulative no .of plants	Not specified	Nil	As PMCP report not submitted violation issued.
6f	Any other method of rehabilitation	No Proposal	Not applicable	Nil
6g	Cost incurred on watch and care during the year	No proposal	Nil	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	No proposal	Not applicable	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal	Not applicable	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No proposal	Not applicable	Nil

6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	Not applicable	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal	Not applicable	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No Proposal	Nil	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No Proposal	Nil	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No Proposal	Nil	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	Season wise monitoring of air ,water, Noise proposed	Season wise monitoring carried out	Periodical monitoring is carried out by M/s Chennai Metex Lab, Chennai in core and buffer zone
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			PMCP activities were in progress however annual report on PMCP was not submitted. Violation issued.

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**Mineral Conservation:**

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No Proposal	Nil	Nil

7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No Proposal	Nil	Nil
7c	Different grade of mineral sorted out at mines.	No Proposal	Nil	Nil
7d	Any beneficiation process at mines .	No Proposal	Nil	Gold ore produced during exploratory mining was transported to Metallurgical plant at HGML for further beneficiation.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			All the ROM excavated from the mines was sent to the beneficiation plant for further processing. Mineral conservation is take care of.

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Environment :

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No Proposal	Nil	Nil
8b	Concurrent use or storage of topsoil	No Proposal	Nil	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dump for waste rock proposed	Separate dump for waste rock carried out	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No Proposal	Nil	Nil

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8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No Proposal	Nil	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Available	WML- 3500 Species and OML- 1000 numbers of saplings were planted	Nil
8g	Survival rate	No Proposal	70-75%	Nil
8h	Water sprinkling on roads to control airborne dust	No Proposal	Not applicable	As it is Underground Mine while transporting ore from UGM to HGML for Road at mine site are surrounding area daily we are sprinkling the water.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Plantation were carried out within & outside the ML area & sprinkling of water done on roads to avoid dust generation

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#### 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 31st December-2019 A.R. Submitted up to 2018-2019	AR Submitted on 30/8/2019	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mines Manager P.suresh, Mining Engineer Gunti Shivakrishna Geologist R,B Ganesh	Same ME & geologist were present during the course of inspection	Mines Manger P.Suresh, Date of appointment. 03/4/2017

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9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Already exploited & abonded by opencast Mining 47.960, Ha Covered Under Cureent workings 4.620Ha, Use for waste disposal 6.750 Ha, Occupied by plant building, residential, welfare buildings and roads 8.00 Ha,	The land use pattern is not matching with the total lease area	Violation Issued
9d	Scrutiny of Annual return on afforestation	Within the Lease Area 3500 Survival Percentage 75% Outside the lease area 1000 Survival Percentage 80%	Appears to be correct	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Opencast opening balance: 160642T , Production Underground : 15360T, Closing stock : 127862T Ore sent to HGML Beneficiation Plant from Mine 48140T.	Appears to be correct	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost of production 5176.59 Rs./Ton Ex-Mine Price per kg 3138596Rs. Silver per kg.37638 Rs.	Appears to be correct	
9h	Scrutiny of Annual return on fixed assets	149949792 Rs including Land Machinery and capitalized expenditure	Appears to be correct	

9k Scrutiny of Annual return on mining machineries Not applicable Nil

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**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)	05/03/2020			
MCDR17	Rule 26(2)	05/03/2020			
	Rule 45(7)	05/03/2020			

**Date :**

**(ARUN KUMAR)**

Indian Bureau of Mines