

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

Mining Plan Modification REPORT

Bangalore regional office

Mine file No : KNT/RCH/AU/1/BNG

Mine code : 27KAR16001

- (i) Name of the Inspecting : **S19**) **SANDEEP KUMAR SINGH**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Sri A. Ghosh, Senior Manager, Dr. Solankar, Geologist
Official with
Designation
- (iv) Date of Inspection : 19/07/2022
- (v) Prev.inspection date : 11/08/2020

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **HUTTI**
- (b) **Registration NO.** : **IBM/4362/2011**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Underground
- (e) Postal address
- State : KARNATAKA
- District : RAICHUR
- Village : HUTTI
- Taluka : LINGASUGUR
- Post office : HUTTI
- Pin Code : 584115
- FAX No. : 08537-275054 (F),
- E-mail : hygominhutti@bsnl.in
- Phone : 08537-275022 (O), 94822380
- (f) Police Station : HUTTI
- (g) First opening date : 19/12/1978
- (h) Weekly day of rest : SUN
2. Address for : At & Po- HUTTI,
correspondance Tq- Lingasugur, Dist- Raichur
KARNATAKA - 584 115
3. (a) Lease Number : KAR0589
- (b) Lease area : 528.35
- (c) Period of lease : 30
- (d) Date of Expiry : 19/12/2008
4. Mineral worked : GOLD Main
SILVER Associated

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 : PRABHULING KAVALIKATTI, IAS
3 rd FLOOR KHB SHOPPING
COMPLEX NATIONAL GAMES
VILLAGE, KORAMANGALA
,BANGALORE BANGALORE
KARNATAKA
Phone: 05837275022
FAX :

Agent : RAVIKUMAR
THE HUTTI GOLD MINES CO
LTD, HUTTI , LINGASUGUR
TLUK RAICHUR DISTRICT
RAICHUR KARNATAKA
Phone: 9449615014
FAX :

Mining Engineer

Name : ABHIJIT SURYAVANSHI, Full Time
Qualification : B E MINING
Appointment/ : 06/08/2020
Termination date

Geologist

Name : SANJEEVAKUMAR SOLANKAR, Full Time
Qualification : M.Sc Applied Geology) Ph.D
Appointment/ : 08/07/2019
Termination date

Manager

Name : Arunava Ghosh
Qualification : B.E. in Mining
Appointment/ : 06/04/2022
Termination date

6. Date of approval of Mining	:	Existing rule 11 MCDR1988	01/12/1993
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	13/04/2000
		Mining Scheme rule 12 MCDR1988	11/09/2003
		Renewal under rule 24 MCR1960	18/08/2008
		Mining Scheme rule 12 MCDR1988	13/02/2014
		MP review under 17(1) MCR 2016	14/02/2017
		MP review under 17(1) MCR 2016	09/04/2018
		MP modif under 17(3) MCR 2016	05/10/2020

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	3 surface boreholes amounting to 600 m proposed.	2 surface and 4 underground boreholes drilled with total meterage 556 m.	Some of the surface borehole could not be drilled due to local villagers' issue as reported by the Lessee. Additional U/g boreholes were drilled.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not mentioned	M/s. HGML & total expenditure incurred is Rs.4537516	As reported by the Lessee during inspection.
1d	Balance area to be explored to bring Geological axis in 1 or 2	G1-136.33 Ha G2-92.76 Ha G3-225.86 Ha	G1-136.33 Ha G2-92.76 Ha G3-225.86 Ha	Exploration is under progress.
1e	Balance reserve as on 01/04/20	19.74 million tonnes with grade 4.33 g/t as on 1.04.2020	18.938million tonnes as on 1.04.2022	As reported in AR 2021-22 after depleting ROM production for the year 2021-22.
1f	General remarks of inspecting officers on geology, exploration etc			i)Reserve/Resource reported correctly in AR 2021-22.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Total proposed development of 8966 m (4669 m on lode & 4297 m off lode)	It was observed that against the total proposed development of 8966 m (4669 m on lode & 4297 m off lode development) only 3765 m (1013 m off lode &2752 m on lode) actual development has been carried for the year 2021-22.	58 % less than the approved proposal for the year 2021-22. Violation issued under Rule 11(1) of MCDR 2017.

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Not applicable	Not applicable	Underground Mine
2c	Stripping ratio or ore to OB ratio	1:0.24	1:0.11	ROM-421662 tons Waste-44798 tons(As reported in AR 2021-22).
2d	Quantity of topsoil generation in m3	Not applicable	Not applicable	Underground Mine
2e	Quantity of overburden generation in m3	202860 tons~67620 Cu.m	44798 tons~14932 Cu.m	It was observed that only 44,761 tonnes of waste have been generated against the proposed waste generation of 2,02,860 tonnes for the year 2021-22 which is 78 % less than the approved proposal. Violation issued under Rule 11(1) of MCDR 2017.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		i) i)It was observed that against the total proposed development of 8966 m (4669 m on lode & 4297 m off lode development) only 3765 m (1013 m off lode & 2752 m on lode) actual development has been carried out which is 58 % less than the approved proposal for the year 2021-22. Violation issued under Rule 11(1) of MCDR 2017.	ii) It was observed that only 44,761 tonnes of waste have been generated against the proposed waste generation of 2,02,860 tonnes for the year 2021-22 which is 78 % less than the approved proposal. Violation issued under Rule 11(1) of MCDR 2017.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	08 Stopes proposed for production	Actual production carried out from 6 stopes within the proposed stopes.	NIL

3b	Quantity of ROM mineral production proposed	818634	421662	Existing EC Capacity for the mine is 0.6 million tonnes per annum.
3c	Recovery of sailable/usable mineral from ROM production	100 % proposed	100 % achieved.	NIL
3d	Quantity of mineral reject generation	No proposal	NIL	NIL
3e	Grade of mineral rejects generation and threshold value declared.	No proposal	NIL	NIL
3f	Quantity of sub grade mineral generation.	No proposal	NIL	NIL
3g	Grade of sub grade mineral generation	No proposal	NIL	NIL
3h	Manual / Mechanised method adopted for segregating from ROM	No proposal	NIL	No ROM Segregation proposed. ROM produced is sent to the processing plant.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	NIL	NIL
3j	Provision of drilling and blasting in mineral benches	Stope Drilling - Ring Pattern Horizontal development - Burn Cut Pattern	Stope Drilling - Ring Pattern Horizontal development - Burn Cut Pattern	Explosive - Slurry explosives with delay detonators
3k	Provision of mining machineries in mineral benches	Jack Hammer, Loaders, Locomotives, Simba junior Machines etc.	Mining machineries deployed as per the proposal.	NIL
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Not applicable	Nil	It is underground mines and the stope & development sizes area maintained as per the permissible limits.

3m	Total area covered under excavation/pits	Not applicable Nil		Underground Mine.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.24	1:0.11	ROM-421662 tons Waste-44798 tons (As reported in AR 2021-22).
3o	Total area put in use under different heads at the end of year	Tailing Pond/waste disposal: 62.00 Ha Infrastructure and roads including mineral storage:137.68 Ha Other:4.70 Ha at the end of plan period i.e., 31.03.2023	Tailing Pond/waste disposal: 62.00 Ha Infrastructure and roads including mineral storage:137.68 Ha Other :4.70 Ha	As reported by the Lessee in AR 2021-22.
3p	Production of ROM mineral during the last five year period as applicable	2017-18 :574000 2018-19: 513610 2019-20: 654335 2020-21:523467 2021-22:818634 Total: 3084046 T	2017-18 :509053 2018-19 : 540026 2019-20: 539851 2020-21:379340 2021-22:421662 (in tonnes) Total :2389932	Existing EC Capacity for the mine is 0.6 million tonnes per annum.
3q	General remarks of inspecting officers on method of mining etc.			i)ROM Production carried out within the proposed stopes. ii)Land use reported correctly in AR 2021-22.

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)	No topsoil and mineral reject generation proposed. Waste rock generated proposed to be used for stope filling & civil construction in the ratio 51:49.	Waste generated utilized for exhausted stope filling.	NIL
4b	Location of topsoil, OB and mineral reject dumps	No proposal	NIL	NIL
4c	Number of dumps within lease area and outside of lease area	3 Tailing dumps within the Lease area. A portion of Tailing dump-D-2 outside Lease area towards Northern side of Lease.	3 Tailing dumps within the Lease area. A portion of Tailing dump-D-2 outside Lease area towards Northern side of Lease.	Violation for Tailing Dump D-2 has already been pointed out by the previous inspecting officer. Also, it was observed during inspection that Retaining wall of 1100 m is proposed for the year 2021-22 between tailing dumps D-2 & D-3, against which no work has been carried out. Violation issued under Rule 11(1) of MCDR 2017.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Not applicable since it is underground mine	Not applicable since it is underground mine	Underground Mine
4e	Number of active and alive dumps.	D-3 tailing dump proposed for the year 2021-22.	Tailing dumping carried out in D-3 tailing dump as per the proposal.	NIL
4f	Number of dead dumps.	02 dead tailing dumps (D1 & D2)	02 dead tailing dumps (D1 & D2)	NIL
4g	Number of dumps established.	No proposal	NIL	NIL

4h	Whether Retaining wall or garland drain all along dumps are there.	1100 m Retaining Wall proposed between tailing dumps D-2 & D-3.	It was observed during inspection that Retaining wall of 1100 m is proposed for the year 2021-22 between tailing dumps D-2 & D-3, against which no work has been carried out.	Violation issued under Rule 11(1) of MCDR 2017.
4i	Length of Retaining wall or garland drain all along dumps	1100 m Retaining Wall proposed between tailing dumps D-2 & D-3.	It was observed during inspection that Retaining wall of 1100 m is proposed for the year 2021-22 between tailing dumps D-2 & D-3, against which no work has been carried out.	Violation issued under Rule 11(1) of MCDR 2017.
4j	Number of settling ponds	No proposal	NIL	NIL
4k	Specific comments of inspecting officer on waste dump management			It was observed during inspection that Retaining wall of 1100 m is proposed for the year 2021-22 between tailing dumps D-2 & D-3, against which no work has been carried out. Violation issued under Rule 11(1) of MCDR 2017.

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.	3 exhausted stopes proposed for filling.	The filling was proposed in stope blocks, RP-5 & 6(1500 to 1700 level, Strike Reef H/w), M7-2 block (1500 to 1600 level, Middle Reef) & R-2-R2 Extn(1000 level to 13 Interlevel, Strike Reef Hang wall) against which actual filling have been carried out in RP-5 & 6(1500 to 1700 level, Strike Reef H/w), S-1,S-2 & S-3 block(16th Inter level to 18th inter level, Zone-I Reef) & 7P & 8P block(1700 level to 1900 level ,Oakley's reef)	Violation issued under Rule 11(1) of MCDR 2017.

5b	Area under backfilling of mined out area	2,11,200tons of filling proposed including black rock filling & Hydraulic stowing	Against the proposed filling quantity of 2, 11,200 tons (including Black Rock & Hydraulic stowing) only 54,340 tons (Hydraulic stowing) have been carried out.	Violation issued under Rule 11(1) of MCDR 2017.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal	NIL	NIL
5d	Total area fully reclaimed and rehabilitated	No proposal	NIL	NIL
5e	General remarks of inspecting officers on backfilling and reclamation etc.		The filling was proposed in stope blocks, RP-5 & 6(1500 to 1700 level, Strike Reef H/w), M7-2 block (1500 to 1600 level, Middle Reef) & R-2-R2 Extn(1000 level to 13 Interlevel, Strike Reef Hang wall) against which actual filling have been carried out in RP-5 & 6(1500 to 1700 level, Strike Reef H/w), S-1,S-2 & S-3 block(16th Inter level to 18th inter level, Zone-I Reef) & 7P & 8P block(1700 level to 1900 level ,Oakley's reef).	Also, against the proposed filling quantity of 2, 11,200 tons (including Black Rock & Hydraulic stowing) only 54,340 tons (Hydraulic stowing) have been carried out. Violation issued under Rule 11(1) of MCDR 2017.

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).	To be submitted before 1st of July every year.	Annual PMCP report for the year 2021-22 submitted on 22.04.2022 vide Email.	NIL

6b	Area available for rehabilitation (ha) .	1 Ha within the Lease area with 2000 nos. of saplings proposed for afforestation.	2000 nos. of saplings plantation were proposed in the area near active tailing dump D-3 for the year 2021-22 against which only 1000 nos. of sapling plantations have been carried out. Also, the plantation along 7.5 m safety zone of the mine lease, along the active tailing dump-D-3 has not been maintained.	Violation issued under Rule 11(1) of MCDR 2017.
6c	afforestation done (ha).	1 Ha within the Lease area with 2000 nos. of saplings proposed for afforestation.	2000 nos. of saplings plantation were proposed in the area near active tailing dump D-3 for the year 2021-22 against which only 1000 nos. of sapling plantations have been carried out. Also, the plantation along 7.5 m safety zone of the mine lease, along the active tailing dump-D-3 has not been maintained.	Violation issued under Rule 11(1) of MCDR 2017.
6d	No. of saplings planted during the year	1 Ha within the Lease area with 2000 nos. of saplings proposed for afforestation.	2000 nos. of saplings plantation were proposed in the area near active tailing dump D-3 for the year 2021-22 against which only 1000 nos. of sapling plantations have been carried out. Also, the plantation along 7.5 m safety zone of the mine lease, along the active tailing dump-D-3 has not been maintained.	Violation issued under Rule 11(1) of MCDR 2017.
6e	Cumulative no .of plants	14200 nos. of saplings cumulative as proposed till 2021-22.	13200 nos. of saplings cumulative till 31.03.2022.	As reported by Lessee during inspection. Violation issued under Rule 11(1) of MCDR 2017 for carrying out less plantation.
6f	Any other method of rehabilitation	No proposal	NIL	NIL
6g	Cost incurred on watch and care during the year	Rs. 20,00,000 proposed	Rs. 11,00,000 cost incurred	As reported by the Lessee during inspection.

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	2,11,200 tons of filling proposed including black rock filling & Hydraulic stowing	Against the proposed filling quantity of 2, 11,200 tons (including Black Rock & Hydraulic stowing) only 54,340 tons (Hydraulic stowing) have been carried out.	Violation issued under Rule 11(1) of MCDR 2017
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	2,11,200 tons of filling proposed including black rock filling & Hydraulic stowing	Against the proposed filling quantity of 2, 11,200 tons (including Black Rock & Hydraulic stowing) only 54,340 tons (Hydraulic stowing) have been carried out.	Violation issued under Rule 11(1) of MCDR 2017
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	No proposal	NIL	Nil (Underground Mine)
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	NIL	Nil (Underground Mine)
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal	NIL	Nil (Underground Mine)
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No proposal	NIL	Nil (Underground Mine)
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal	NIL	Nil (Underground Mine)
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal	NIL	Nil (Underground Mine)

6p	Compliance of environmental monitoring (core zone and buffer zone)	Environmental monitoring proposed.	Environmental monitoring carried out as per the proposal. Environmental monitoring report of Jan-Mar-22 Quarter available during inspection. All parameters within limit.	Environmental monitoring parameters are within limit.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			2000 nos. of saplings plantation were proposed in the area near active tailing dump D-3 for the year 2021-22 against which only 1000 nos. of sapling plantations have been carried out. Also, the plantation along 7.5 m safety zone of the mine lease, along the active tailing dump-D-3 has not been maintained. Violation issued under Rule 11(1) of MCDR 2017.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No grade wise sorting proposed for ROM. The ore is dispatched to the processing plant within the lease area where crushing, grinding units are present with the metal extraction system	As per the proposal. Total ROM Production- 421662 tons (Avg grade- 3.31 g/ton). Total ROM dispatched to the processing plant- 421662 tons (Avg grade- 3.31 g/ton)	As reported in AR 2021-22. The ore is dispatched to the processing plant within the lease area where crushing, grinding units are present with the metal extraction system.

7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No grade wise sorting. Only Mechanized crushing & grinding within the processing plant.	As per the proposal.	NIL
7c	Different grade of mineral sorted out at mines.	No proposal	NIL	NIL
7d	Any beneficiation process at mines .	Yes crushing & grinding and the metal extraction system.	Carried out as per the proposal.	NIL
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			The necessary measures taken in view of the mineral conservation of the mine.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal	Nil	Nil(Underground Mine)
8b	Concurrent use or storage of topsoil	No proposal	NIL	Nil(Underground Mine)
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	D-3 tailing dump proposed for the year 2021-22.	Carried out as per the proposal	NIL
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	NIL	NIL

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)	14200 nos. of saplings cumulative as proposed till 2021-22.	13200 nos. of saplings cumulative till 31.03.2022.	As reported by Lessee during inspection. Violation issued under Rule 11(1) of MCDR 2017 for carrying out less plantation.
8g	Survival rate	40-50% proposed	50% achieved	As reported in AR 2021-22
8h	Water sprinkling on roads to control airborne dust	Water sprinkling proposed to control surface airborne dust.	Water sprinkling carried out by 02 water sprinklers of capacity 6000 litres each for controlling airborne dust at surface.	NIL
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			2000 nos. of saplings plantation were proposed in the area near active tailing dump D-3 for the year 2021-22 against which only 1000 nos. of sapling plantations have been carried out. Also, the plantation along 7.5 m safety zone of the mine lease, along the active tailing dump-D-3 has not been maintained. Violation issued under Rule 11(1) of MCDR 2017.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	M.R. Submitted up to June-2022 on 09.07.2022. ***** A.R. Submitted up to 2021-22 on 30.06.2022	M.R. Submitted up to June-2022 on 09.07.2022. ***** A.R. Submitted up to 2021-22 on 30.06.2022	NIL
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mine Manager: P. Suresh Mining Engineer : AbhijithSuryavanshi Geologist:Dr. SanjeevakumarSolankar	Appears to be Correct.	Manager- Shri A. Ghosh w.e.f. 06.04.2022
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Tailing Pond/waste disposal: 62.00 Ha Infrastructure and roads including mineral storage:137.68 Ha Other :4.70 Ha	Appears to be correct	NIL
9d	Scrutiny of Annual return on afforestation	1000 saplings with lease area with 50% survival rate	Appears to be correct	NIL
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NIL	Appears to be correct	NIL

9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM opening stock-0 tons. Production-421662 tons. ROM Closing stock- 0 tons. Ore dispatched to processing plant. Opening stock-3598 tons Ore received from the mine-421662 tons Ore treated in plant-419668 tons	Appears to be correct	NIL
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost of production-Rs. 10890.61 /ton. Ex-mine price-Rs. 10890.61/ton	Appears to be correct	Captive Mine
9h	Scrutiny of Annual return on fixed assets	Rs. 928441327 including land, industrial, plant & machinery & capitalized expenditure	Appears to be correct	NIL
9k	Scrutiny of Annual return on mining machineries	Load Haul Dumper-2 nos. Locomotive- 6 nos. Winding Engine-3 nos. Water sprinkler-2nos.	Appears to be correct	NIL

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)	03/08/2022	10/10/2022				

Date :

(SANDEEP KUMAR SINGH)

Indian Bureau of Mines