

**STOPING INSPECTION REPORT**  
**INDIAN BUREAU OF MINES**  
**Bangalore Regional Office**

**Annexure-I**

*Mine Code No. 27KAR 16001*

- |       |  |   |  |
|-------|--|---|--|
| (i)   | <b>Report Prepared by</b>                              | : | Shri. Sandeep Kumar Singh & Shri Pintu Layek   |
| (ii)  | <b>Designation</b>                                     | : | Senior Assistant Controller of Mines & Junior Mining Geologist, IBM, Bangalore   |
| (iii) | <b>ML. No</b>  | : | 2671   |
| (iv)  | <b>Accompanying Mine Official</b>                      | : | (1) Sri Arunava Ghosh<br>(2) Sri V M Santosh Kumar<br>(3) Sri Somesh K V<br>(4) Dr. Sanjeeva Kumar Solankar<br>(5) Sri Prashanth<br>(6) Sri Amol Roy                 |
| (v)   | <b>Designation</b>                                     | : | (1) Dy. General Manager (Mining) & Agent<br>(2) Mine manager<br>(3) Mining Engineer.<br>(4) Geologist.<br>(5) Surveyor.<br>(6) Ventilation Officer & Rock mechanics. |
| (vi)  | <b>Date of Inspection</b>                              | : | 27/01/2025   |
| (vii) | <b>Date of submission of the application by lessee</b> | : | Online Application dated 20.01.2025. Also hard copy of the application along with all relevant annexures and plates received on 23/01/2025.                          |

**PART – I General Information**

- |    |    |   |   |  |
|----|----|---|---|--|
| 1. | a) | <b>Name of the mine</b>                                   | : | Hutti Gold Mine  |
|    | b) | <b>Category of the mine</b>                               | : | A-Mechanized U/G mine  |
|    | c) | <b>Address of the mine</b>                                | : | Karnataka  |
|    |    | <b>State</b>  | : | Raichur  |
|    |    | <b>District</b>   | : | Hutti  |
|    |    | <b>Village</b>  | : | 584115   |
|    |    | <b>Pin</b>  | : | :  |
|    |    | <b>Fax</b>  | : | :  |
|    |    | <b>E-mail</b>   | : | <a href="mailto:rohgml@gmail.com">rohgml@gmail.com</a> ,<br><a href="mailto:prakash.bahadur@ka.gov.in">prakash.bahadur@ka.gov.in</a> |
|    | d) | <b>Name of Police Station</b>                             | : | Hutti  |
|    | e) | <b>Lease area in Hectare</b>                              | : | 528.35 Ha  |
|    |    | <b>(i) Forest</b>   | : | -  |
|    |    | <b>(ii) Non-forest</b>                                    | : | Non-Forest   |
| 2. | a) | <b>Period of Lease</b>                                    | : | 20 years (19/12/2008 to 18/12/2028)  |
|    | b) | <b>Date of expiry</b>                                     | : | 18/12/2028   |
| 3. | a) | <b>Mineral worked</b>                                     | : | Gold, Scheelite and Associated Minerals  |
|    | b) | <b>Main mineral</b>                                       | : | Gold   |
|    | c) | <b>Associated minerals</b>                                | : | Silver   |
|    | d) | <b>Captive /non-captive use</b>                           | : | Captive  |
| 4. | a) | <b>Date of approval of mining plan with reference No.</b> | : | No. MCDR-MPC0Au/1/2023-BNG-IBM_RO_BNG, dt.: 22/12/2023<br>Modifications to the approved mining plan                                  |

- b) **Special conditions stipulated in approval letter** :
- including PMCP
1. The Geotechnical study report for 20th level and above attached with the document is of June-2003. As the mining thereafter has progressed substantially below 20th level & old stopes above 20th level are open stope, a fresh geotechnical study may be carried out above and below the 20th level to assess overall geotechnical condition of the stopes. If there are any changes in stope design parameters and filling sequence based on the study recommendations, the document needs to be modified accordingly. The copy of the aforesaid Geotechnical study report may be submitted to this office immediately after its completion.
  2. The tailing dump stability study report submitted with the document is of April 2003. As the dumping quantity in the tailing dumps have substantially added since then, a fresh tailing dump stability study may be carried out. If there are any recommendations in the study for changes in tailing dump design parameters or location, the document needs to be modified accordingly. The copy of the aforesaid tailing dump stability report may be submitted to this office immediately after its completion.
  3. Approval of Modifications to the Approved Mining Plan along with Progressive Mine Closure Plan is subject to obtaining all the statutory clearances from the concerned Central and State Authorities before commencement of the mining plan proposals.
5. **Name and address of Lessee and Agent (including Fax/E-mail, if any)**
- a) **Lessee** :
- Smt. Shilpa R, KAS  
The Managing Director  
The Hutti Gold Mines Co. Ltd.  
Address: 3<sup>rd</sup> Floor, KHB shopping Complex,  
National Games Village, Koramangla, Bangalore  
Phone: 08537275022  
Email: [rohgm1@gmail.com](mailto:rohgm1@gmail.com),
- b) **Agent** :
- Sri. Arunava Ghosh  
Address: The Hutti Gold Mines Co. Ltd.  
Hutti-584115, Taluk.: Lingasugur, Dist.: Raichur,  
Karnataka  
Phone: +91-9742150161  
Email: [ghosh.arunava@ka.gov.in](mailto:ghosh.arunava@ka.gov.in)  
Date of Appointment : 06/01/2024
- c) **Status of lessee (Private/PSU/Joint sector)** :
- State PSU
- d) **Mining Engineer/Geologist under Rule 55 of MCDR, 2017 with date of appointment whether full-time or part time and qualifications.** :
- Mining Engineer  
Sri. Somesh K V  
Full time  
Date of Appointment : 07/07/2023

Geologist  
Dr. Sanjeeva Kumar Solankar  
Full time  
Date of Appointment :08/07/2019

**e) Mines Manager  
Qualifications and date of  
Appointment**

: Sri. V M Santosh Kumar, BTech (Mining).  
Address: Address: The Hutti Gold Mines Co. Ltd.  
Hutti-584115, Taluk: Lingasugur, Dist.: Raichur,  
Karnataka  
Phone: +91-9731049125  
Email: santoshkumar.vm@ka.gov.in  
Date of Appointment:01/01/2024

**PART- II: TECHNICAL DETAILS**

**1. Details of Section/Stoppe applied for permission:**

Sl.No	Name of applied block.	Stope ID	Level		Region	Proposed period as per approved MRMP dated 22/12/2023
			Top Level	Bottom Level		
1	ZI-2 BLOCK	ZONE-I REEF	24L	26L	BW28	2024-2025 & 2025-26

Level	Co-ordinates		Stope Dimension (LxWxH)
	Latitude (From, to) UTM/Local	Longitude (From, to) UTM/Local	(90 x 7.5696 x 61.8)
Top level- 24L	676313, 676360	1791968, 1791887	
Bottom Level- 26 L	676294, 676343	1791955, 1791880	

**Table 1: The details of the proposed stopes**

**2. Level and stoppe wise completed and pending development:** The status of the development has been examined during the mine inspection on 27/01/2025. The updated development as on **31/12/2024** as reported by the Lessee is as below.

Sl.No	Block	Reef	Level	Development Required (Mts.)			Development Completed (mts)			Development % Completed
				Drive	X-Cuts	Total	Drive	X-Cuts	Total	
1	ZI-2	ZONE-I REEF	24 Level	122	31	153	122	31	153	100%
2			24 Drill Level	120	28	148	80	15	95	64%
3			25 Level	107	31	138	107	31	138	100%
4			26 Sub Level	107	46	153	107	46	153	100%
5			26 Level	112	20	132	112	20	132	100%
6			26 Draw Level (Off Lode)	148	119	267	82	66	148	55%
7			Total	716	275	991	610	209	819	83%

\*Return ventilation raise between 24<sup>th</sup> L to 26<sup>th</sup> L in north end of proposed block (ZI-2) to be developed for return ventilation circuit.

**Table2: Proposed stoppe development status**

**3. Extent of Development in the mine:** Details of UG development in Zone-I Reef is as follows (both off-lode and on-lode) for the period 2024-25(till December-2024)

**13. Year Wise Simultaneous Underground Development for the Year 2024-25 (April-24 To December-24)**

Sl.No.	Particulars	Proposed Dev. Meterage Mineral	Actual Running Meterage in Mineral Zone (m)	Proposed Dev. in Waste (m)	Actual Meterage in Waste (m)	cross section (m2)	Volume (m3)	Density (T/m <sup>3</sup> )	ORE (Tonnes)	Actual Ore in Mineral Zone (Tonnes)	Waste (Tonnes)	Actual Waste (Tonnes)	UTM Coordinates
<b>ZONE I REEF</b>													
1	ZI 4 SUB LEVEL DRIVE NORTH AND DRIVE SOUTH	300.00	-	-	-	9.00	2,700	2.83	7,641	-	-	-	676945,1791248 677025,1791065
2	ZI 5 DRIVE NORTH & DRIVE SOUTH	-	40.60	-	-					962	-	-	
3	ZI 5 DRILL DRIVE NORTH & DRIVE SOUTH	-	51.70	-	-					1,334	-	-	
4	ZI 7 DRIVE NORTH & DRIVE SOUTH	-	-	-	-					65	-	-	
5	ZI 15 SUB LEVEL DRIVE NORTH	50.00	-	-	-	9.00	450	2.83	1,274	-	-	-	676785,1791194 676767,1791231
6	ZI 15 NRAS X-W DEVELOPMENT	-	-	300.00	-	13.50	4,050	3.00		-	12,150	-	676447,1791952 676564,1791926
7	ZI 20 DRIVES & X-CUTS	-	-	-	-					-	-	31	
8	ZI 22 DRILL LEVEL DRIVE NORTH AND DRIVE SOUTH	270.00	-	-	-	9.00	2,430	2.83	6,877	-	-	-	676456,1791650 676355,1791906
9	ZI 24 DRILL LEVEL DRIVE NORTH AND DRIVE SOUTH	270.00	104.80	-	-	9.00	2,430	2.83	6,877	2,393	-	-	676273,1792012 676444,1791663
10	ZI 24 DRILL LEVEL DRIVE SOUTH	30.00	-	-	-	9.00	270	2.83	764	-	-	-	676537,1791444 676543,1791420
11	ZI 24 DRIVE NORTH & DRIVE SOUTH	-	92.30	-	275.70					2,116	-	11,672	
12	ZI 25 DRIVE NORTH & DRIVE SOUTH	-	55.80	-	-					1,257	-	-	
13	ZI 26 SUB LEVEL DRIVE NORTH AND DRIVE SOUTH	300.00	47.40	-	-	9.00	2,700	2.83	7,641	1,236	-	-	676357,1791872 676449,1791644
14	ZI 26 HAULAGE DRIVE AND X-CUTS	-	37.50	300.00	131.50	18.00	5,400	3.00		1,555	16,200	5,613	676485,1791474 676503,1791302
15	ZI 27 DRIVE SOUTH	75.00	24.70	-	-	18.00	1,350	2.83	3,821	959	-	-	676503,1791413 676501,1791268
16	ZI 27 DRIVE NORTH	150.00	-	-	-	16.00	2,400	2.83	6,792	-	-	-	676365,1791820 676296,1791957
17	ZI 28 DRIVE SOUTH & DRIVE NORTH	125.00	252.70	-	-	18.00	2,250	2.83	6,368	12,010	-	-	676496,1791411 676493,1791262
18	ZI 28 DRIVE NORTH	350.00	-	-	-	18.00	6,300	2.83	17,829	-	-	-	676367,1791764 676225,1792000
19	ZI 29 SUB LEVEL DRIVE NORTH AND DRIVE SOUTH	250.00	-	-	-	9.00	2,250	2.83	6,368	-	-	-	676401,1791632 676465,1791431
20	ZI 29 LEVEL DRIVE NORTH AND DRIVE SOUTH	250.00	-	-	-	9.00	2,250	2.83	6,368	-	-	-	676441,1791548 676475,1791448
	<b>Total Zone I Reef</b>	<b>2,420.00</b>	<b>707.50</b>	<b>600.00</b>	<b>407.20</b>		<b>37,230</b>		<b>78,617</b>	<b>23,887</b>	<b>28,350</b>	<b>17,316</b>	

**13. Year Wise Underground Winze / Raise for the Year 2024-25 (April-24 to December-24)**

Sl.No.	Particulars	Type of Development	Drop Raise(m)	Actual Meterage	Cross section (m2)	Volume (m3)	Density (T/m <sup>3</sup> )	ORE (Tonnes)	Actula ORE (Tonnes)	Waste (Tonnes)	Actual Waste (Tonnes)	UTM Coordinates
<b>ZONE-I REEF</b>												
1	ZI 13L-16INT L	Level Inter-connects (winze/ raise)	83.00	-	4	332	2.83	940	-	-	-	676764,1791326 676732,1791307
2	ZI 18L-20L	Level Inter-connects (winze/ raise)	-	<b>18.90</b>			3.00		-		<b>1,418</b>	
3	ZI 22L-24L	Level Inter-connects (winze/ raise)	60.00	-	4	240	2.83	679	-	-	-	676568,1791448 676553,1791439
4	ZI 22L-24L	Level Inter-connects (winze/ raise)	60.00	-	4	240	2.83	679	-	-	-	676520,1791535 676504,1791525
5	ZI 22L-23L	Level Inter-connects (winze/ raise)	30.00	-	4	120	2.83	340	-	-	-	676442,1791762 676436,1791761
6	ZI 24L-26L	Level Inter-connects (winze/ raise)	-	<b>13.10</b>	4	120	3.00	-	-	-	<b>88</b>	
7	ZI 26L-28L	Level Inter-connects (winze/ raise)	60.00	<b>12.00</b>	4	240	2.83	679	<b>76</b>	-	-	676424,1791700 676393,1791687
8	ZI 26L-28L	Level Inter-connects (winze/ raise)	60.00	<b>28.10</b>	4	240	2.83	679	<b>179</b>	-	-	676393,1791793 676365,1791779
9	ZI 26L-28L	Level Inter-connects (winze/ raise)	60.00	<b>27.30</b>	4	240	2.83	679	<b>174</b>	-	-	676346,1791874 676329,1791865
10	ZI 26L-28L	Level Inter-connects (winze/ raise)	60.00	-	4	240	2.83	679	-	-	-	676309,1791965 676286,1791952
11	ZI 26L-28L	Level Inter-connects (winze/ raise)	60.00	-	4	240	2.83	679	-	-	-	676523,1791532 676507,1791522
12	ZI 26L-28L	Level Inter-connects (winze/ raise)	60.00	-	4	240	2.83	679	-	-	-	676589,1791445 676552,1791435
13	ZI 28L-29L	Level Inter-connects (winze/ raise)	30.00	-	4	120	2.83	340	-	-	-	676465,1791504 676458,1791500
	<b>Total Zone-I Reef</b>		<b>623.00</b>	<b>99.40</b>		<b>2,612</b>		<b>7,052</b>	<b>429</b>	<b>-</b>	<b>1,506</b>	

**Table3: Extent of development in Zone-I reef as on 31/12/2024**

#### 4. Stope already worked out during last 5 years:

Permission Letter	Stopes already worked out	No. of Stopes	Top level RL	Bottom Level RL	Quantity Proposed (Tonnes)	Quantity recovered (Tonnes)
XII.No.MS/RCH/G-I-SZ, dated 18.09.2003	MR 15 L – 17 L (M7-2&M7-3 Block)	1	441.220	544.960	2,47,779	2,12,437
XV.No.KNT/RCH/G-I-SZ/250, dated15.06.2018	SR 8 L – 11 L KE35-KE36 (B-2 Block)	1	240.760	338.050	58,802	1,56,298
XVII.No.KNT/RCH/G-I-SZ/256, dated15.06.2018	SR 24 L – 26 L EE34 (SR-1 Block)	1	779.200	839.400	1,16,188	2,28,734
XVIII.No.KNT/RCH/G-I-SZ/259, dated15.06.2018	OR 9 L – 13 Int. GE47-GE49 (ORT Block)	2	274.610	356.000	1,00,169	1,59,826
XIX. No. KNT/RCH/G-1-SZ/171, dated 06-09-2019	MR(F/W) 17 L – 19 L FE45-GE49(F/W)- A Block	1	544.840	608.780	3,01,867	4,30,794
XXIII.No.KNT/RCH/G-I-SZ/351, dated01.12.2022	SR 24 L – 26 L DE34 (S-1Extension Block)	1	778.336	839.180	51,768	54,118
XXIV.No.KNT/RCH/G-I-SZ/354, dated01.12.2022	ZI15 L–16 Int. DE34 (S-4 Block)	1	458.700	495.600	60,973	62,922
XXII.No.KNT/RCH/G-I-SZ/348, dated 01.12.2022	ZI 24 L – 26 L BE35-36 (S-1 Block)	1	789.810	840.540	1,12,393	1,34,212
XXV. No. KNT/RCH/G-1-SZ, dated 11-08-2023	ZI 14 L – 16 Int. L EE38 (S-5 Block)	1	433.500	495.600	73,302	91,773

**Table 4: Details of stope workout during last five years**

#### 5. Reserve position of stopes in operation: Balance reserves in stopes under operation for which permission is granted as on 31/12/2024 as reported by the Lessee during inspection are.

Level	Name of the Reef	StopeID	Permission letter And date	Quantity Proposed (T)	Quantity Recovered (T)	Balance Reserves (T)	Remarks asper Quarterly Returns
17L-19L	Middle Reef	MR(FW) B & C Block	XIX.No.KNT/RCH/G-I-SZ/171, dated06.09.2019	4,15,877	1,57,042	2,58,835	"A" Block is completed. "B" & "C" are under progress
24L-26L	Middle Reef	N-1 Sub Block 'A'	XX.No. KNT/RCH/G-1-SZ/218, Dated20.10.2021	3,11,223	3,22,846	-	Stoping is in progress, tonnage recalculated after stope development
24L-26L	Oakley's Reef	S-1	XXI.No.KNT/RCH/G-I-SZ/221, Dated 20.10.2021	2,74,947	2,18,108	56,839	In Progress
24L-26L	Zone-I Reef	S-1	XXII.No.KNT/RCH/G-I-SZ/348, Dated01.12.2022	1,12,393	1,34,212	-	Stoping is Completed
14L-16Int.	Zone-I Reef	S-5	XXV.No.KNT/RCH/G-I-SZ, dt.11.08.2023	73,302	91,773	-	Stoping is Completed
24L-26L	Strike Reef	SR-2	XXVI.No.KNT/RCH/G-I-SZ, dt. 27.02.2024	99,743	46,580	53,163	Stoping is in progress,
15L-17L	Strike Reef	P-7	XXVII.No. O-11014 / 1 / 2024 / SZ-IBM_SZ,	97,722	15,318	82,404	In Progress

			Dated 27.11.2024				
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**Table 5: Details of stope under operation for the year 2024-25.**

**6. Reserve position of applied stopes:** In-situ tonnage is geological resources; Movable tonnage is tons including planned dilution.

S. No.	Reef	Stope Name	Level	In-situ Tonnage	Movable Tonnage	Grade (g/t)
1	ZONE-I REEF	ZI-2 Block	24 <sup>th</sup> L – 26 <sup>th</sup> L	119149	119930	2.75

**Table 6: Reserve position in applied/proposed stopes.**

**7. Balance Reserves: Position of Reserve and Resource as on 01/04/2024 is as follows:**

<b>A. Total Mineral Reserves &amp; Resources</b>			
	UNFC	Million Tonnes	Grade (g/t)
Proved Mineral Reserve	<b>111</b>	15.87	4.14
Probable Mineral Reserve	<b>121&amp;122</b>	0.00	0.00
Feasibility Mineral Resource	<b>211</b>	1.74	5.97
Pre-feasibility Mineral Resource	<b>221</b>	4.64	3.56
Measured Mineral Resource	<b>331</b>	0.00	0.00
Indicated Mineral Resource	<b>332</b>	1.45	3.30
Inferred Mineral Resource	<b>333</b>	3.49	2.74
Reconnaissance Mineral Resource	<b>334</b>	0.00	0.00

**Table 7: Reserve & Resource position of the mine as on 1.04.2024**

**8. Manner of Extraction of ZI 24L - 26L BW 28 'ZI-2' Block**

Reference Plans and Sections:

### SEQUENCE OF OPERATION

#### **8.1. STOPE PREPARATION: [Drg. No- MP/SPA/2024/3/ZI-2\_Block\_ZI/A]**

- Two sub-levels i.e., 26<sup>th</sup> sub-level is developed for the entire length of the stope block and 24<sup>th</sup> Drill-level will be developed for the entire length of the stope block.
- One slot raise will be developed at North end of the block between 26<sup>th</sup> level and 24<sup>th</sup> level to serve as a free space for blasting operations.
- A service raise is developed at South end of the stope block between 26<sup>th</sup> and 24<sup>th</sup> level which serves as the second access to the stope at all the inter-levels.

#### **8.2. EXTRACTION LEVEL: [Drg. No- MP/SPA/2024/3/ZI-2\_Block\_ZI/A]**

The existing bottom level i.e. 26<sup>th</sup> level shall be maintained as extraction level. A haulage drive of 4.5 m x 4.5 m will be developed in footwall at about 11 m away from the ore body contact.

Draw cross cuts of 4 m x 4 m is being developed at 10 m interval from haulage drive to ore drive of the proposed stope block, as shown in Drg. No- MP/SPA/2024/3/ZI-2\_Block\_ZI/A

### 8.3.DRILLING OF BLAST HOLES: [Drg. No- MP/SPA/2024/3/ZI-2\_Block\_ZI/A]

57mm dia. downward holes shall be drilled from 26th sub-level to 26th level, from 25th level to 26th sub-level and from 24th drill-level to 25th level. Ring drilling will be done as shown in Drg. No- MP/SPA/2024/3/ZI-2\_Block\_ZI/A.

### 8.4.BLASTING: [Drg. No- MP/SPA/2024/3/ZI-2\_Block\_ZI/A]

At all levels the blasting of holes will commence from slot rise provided at North end of the block and retreat towards the South end of the block. The blasting of drilled holes from 26th sub-level to 26th level, from 25th level to 26th sub-level and from 24th drill-level to 25th level, shall be carried out as shown in Drg. No- MP/SPA/2024/3/ZI-2\_Block\_ZI/A.

### 8.5.WITHDRAWAL & TRANSPORTATION OF ORE

The broken ore shall be drawn from stope by electric LHD and LPDT combination and will be dumped into coarse ore bin (COB) Rock-breaker grizzly at 26 level. From COB the ore is fed to 27L Crusher where the size is reduced to 200mm. From Crusher the ore is transported to 27L - 28L fine ore bin (FOB) through conveyor. From FOB the ore is hoisted to surface through New Circular Shaft.

### PROPOSED RATE OF PRODUCTION FROM STOPE (as per Approved Mine Plan)

BLOCK ID	MONT H	TONNAGE	TOTAL
ZI 24L-26L BE28 ZI-2 BLOCK	Mar-25	18.600	1,19,930
	Apr-25	8.400	
	May-25	9.100	
	Jun-25	8.400	
	Jul-25	9.450	
	Aug-25	8.750	
	Sep-25	9.100	
	Oct-25	9.100	
	Nov-25	8.750	
	Dec-25	9.100	
	Jan-26	8.750	
	Feb-26	8.750	
Mar-26	3.680		

**Table 8: Proposed rate of production from stope.  
Avg. monthly production rate 9225MT**

### ESTIMATED TONNAGE& GRADE TO BE RECOVERED FROM 'ZI-2' BLOCK

Name of Sub-Block	Insitu Ore Reserve			Irrecoverable Reserve			Recoverable ore			Dilution @ 15 %			Extraction from the Block		
	Tonnes (MT)	Grade (g/t)	Gold (g)	Tonnes (MT)	Grade (g/t)	Gold (g)	Tonnes (MT)	Grade (g/t)	Gold (g)	Tonnes (MT)	Grade (g/t)	Gold (g)	Tonnes (MT)	Grade (g/t)	Gold (g)

ZI-2 BLOC K	1,19,14 9	3.18	3788 94	14,85 2	3.3 1	49,19 3	1,04,28 7	3.16	3297 01	15,64 3	0.0 0	0.0 0	1,19,93 0	2.75	3,29,70 1
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**Table 9: Estimated tonnage and grade from ZI-2 block.**

#### **8.6.SUPPORT OF WORKINGS. No- MP/SPA/2024/3/ZI-2\_Block\_ZI/E.**

The following measures have been implemented for support of workings,

- a) Footwall Drives/Haulage Drive/Extraction X-cut: The dimension of the Footwall Drive/extraction X-cut is kept as 4.0m (W) x 3.5m (H). The roof and sides of F/W Drive/Haulage Drive/Extraction supported with 1.5m long rock bolts installed at 1.8m X 1.8m in a grid pattern.
- b) Stope Drive: The dimension of the Stope drive is 3m (w) x3m (H). The roof and sides of draw crosscuts supported with 1.5m long rock bolts installed at 1.2 m X 1.2 m in a grid pattern with three rock bolts in the roof vertically.

The Systematic Support Rule (SSR) is submitted by the Lessee at Annexure-F.

#### **8.7.SAFETY MEASURES: Drg. No- MP/SPA/2024/3/ZI-2\_Block\_ZI/H**

The following safety measures will be implemented for proposed Stopping Blocks.

- a) Tape extensometer / convergence recorder will be installed in the haulage drives and draw cross cuts of the proposed stope as shown in the drawing (MP/SPA/2024/3/ZI-2\_Block\_ZI/H).
- b) Stress cells will be installed in the 26th level in the barrier Rib Pillars of the proposed stope block as shown in Drawing (MP/SPA/2024/3/ZI-2\_Block\_ZI/H)

#### **8.8.VENTILATION: Drg. No- MP/SPA/2024/3/ZI-2\_Block\_ZI/D**

The stope will be ventilated with minimum air quantity of 1200 m<sup>3</sup>/min. of fresh air from New Circular Shaft & Mallappa Shaft 26th level main haulage and the return air would go up through the ventilation raise at north end of stope to 24th level and to the raise BW 28 to North Return Air Shaft (NRAS) Fan as shown in Drawing.

*\*Return ventilation raise between 24<sup>th</sup> L to 26<sup>th</sup> L at north end of proposed block, ZI-2 to be developed for return ventilation circuit.*

#### **North Return Air Shaft Fan Details:**

Make: ZITRON

Capacity: 7,262 m<sup>3</sup>/min

#### **8.9. STOWING:**

After completion of extraction of the proposed block, the stope void shall be backfilled by hydraulic stowing with classified mill tailings and waste rock, in order to ensure stable working conditions in future stope blocks adjacent to the proposed block.



**9. Compliance of Rule 30 under MCDR, 2017:** - has been complied with as Stopping application has been applied in prescribed Form –F under rule 30(2) of MCDR, 2017 by Hutti Underground Gold Mine of M/s The Hutti Gold Mines Company limited.

**10. Comments on the scrutiny of stopping notice:** The stopping notice has been examined in light of the submitted documents by the Lessee, stope inspection on 27/01/2025 and discussion held with mine officials.

- Online Application of stopping was submitted on 20/01/2025 for Zone-I reef between 24th level to 26th level BW-28 region (ZI-2 block) between grids as mentioned in Table 1. Further the hard copy of the document along with all relevant Annexures and plates were also submitted on 23/01/2025.
- As per Modification of Mining Plan approved on 22/12/2023, above mentioned stope in Table-1 is proposed to stope out in the year 2024-25 & 2025-26 as mentioned below in Table 11. The proposed stope details have been furnished in the table 1. The proposed rate of production & estimated tonnage and grade has been furnished in Table 8 & 9.
- Adequate development has been carried out for the proposed stope w.r.t the off-lode, on-lode & primary development by the Lessee as mentioned above in Table 2 & below in Table-10.
- Accordingly, the proposed stope may be recommended for permission with condition that the Lesse will be completing the return ventilation raise between 24<sup>th</sup> L to 26<sup>th</sup> L at north end & balance development for the proposed block (ZI-2) at the earliest before commencement of stopping as per schedule''.

Sl.No	Block	Reef	Level	Development Required (Mts.)			Development Completed (Mts.)			Development % Completed
				Drive	X-Cuts	Total	Drive	X-Cuts	Total	
1	ZI-2	ZONE-I REEF	24 Level	122	31	153	122	31	153	100%
2			24 Drill Level	120	28	148	80	15	95	64%
3			25 Level	107	31	138	107	31	138	100%
4			26 Sub Level	107	46	153	107	46	153	100%
5			26 Level	112	20	132	112	20	132	100%
6			26 Draw Level (Off Lode)	148	119	267	82	66	148	55%
7			Total	716	275	991	610	209	819	83%

\*Return ventilation raise between 24<sup>th</sup> L to 26<sup>th</sup> L in north end of proposed block to be developed for return ventilation circuit.

**Table 10 showing status of development of stope recommended for permission**

8	2024-2025	24-26:780.4-8 40	BLOCK ZI 24L-26L BE 35-36 S-1 BLOCK	69X57	6	0	8	4X4	4X3	Hydraulic filling	15
17	2025-2026	24-26:776.4-8 38.2	MINK-1 BLOCK ZI 24L-26L BW 28 ZI-2	90X61.8	6	0	8	4X4	4X3	Hydraulic filling	15

									5
9	2024-2025	24-26:776.4-838. 2	ZI 24L-26L BW 28 ZI-2 BLOCK	80082	70093	87.5	15	2 to 2.67 g/t	676313,1791968 676360,1791887 676294,1791955 676343,1791880
17	2025-2026	24-26:776.4-838. 2	ZI 24L-26L BW 28 ZI-2 BLOCK	56939	49837	87.5	15	2 to 2.67 g/t	676313,1791968 676360,1791887 676294,1791955 676343,1791880

**Table 11: Proposed period as per approved MMP dated 22/12/2023 for recommended stope**

- 11. Recommendation:** Based on field observations, recommendations in NIRM report and proposals in present Modifications to the Approved Mining Plan, the present stoping permission for Zone-I reef between 24th level to 26th level in BW 28 region, ZI-2 Block, may be granted with condition that the Lesse will be completing the return ventilation raise between 24th L to 26th L at north end & balance development for the proposed block (ZI-2) at the earliest before commencement of stoping as per schedule.

**Pintu Layek**  
Junior Mining Geologist

**Sandeep Kumar Singh**  
Senior Assistant Controller of Mines