

INDIAN BUREAU OF MINES
MINERALS DEVELOPEMMENT AND REGULATION DIVISION

MCDR inspection REPORT
Ranchi regional office

Mine file No : JHK/SKK//GOLD-01/RRO/2020

Mine code : 27JHK22001

- (i) Name of the Inspecting Officer and ID No. : K03) G. S. KANNAN
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine Official with Designation : Shri. Gaurav Agarwal, Director
- (iv) Date of Inspection : 07/10/2021
- (v) Prev. inspection date : 13/03/2021

PART-I : GENERAL INFORMATION

1. (a) Mine Name : LAWA GOLD MINE
- (b) Registration NO. : IBM/4743/2011
- (c) Category : A Fully Mechanised
- (d) Type of Working : Underground
- (e) Postal address :
State : JHARKHAND
District : SARAIKELA-KHARASWAN
Village :
Taluka : Chandil
Post office : Seema Gunda
Pin Code : 800013
FAX No. : 0657-2301243
E-mail : mmiplindia@gmail.com/ mmip
Phone : 0657-2301243
- (f) Police Station : NIMDIH
- (g) First opening date : 15/07/2018
- (h) Weekly day of rest : SUN
2. Address for correspondance : VILL.-LAWA, P.S.- NIMDIH,
SUB DIVISION- CHANDIL,
DIST. - SARAIKELA - KHARSAWAN
3. (a) Lease Number :
(b) Lease area : 54.55 Ha.
(c) Period of lease : 50 years
(d) Date of Expiry : 09-01-2067
4. Mineral worked : GOLD Main

5. Name and Address of the

Lessee : MANMOHAN MINERAL INDUSTRIES LTD.
SHANTI NIKETAN, 286 NEW
PATALIPUTRA COLONY PATNA
PATNA BIHAR
Phone: 0612-266668
FAX :

Owner : GAURAV AGRAWAL (DIRECTOR)
E/75, EAST LAYOUT, NEAR
AERODROME, SONARI,
JAMSHEDPUR SINGHBHUM (EAST)
JHARKHAND
Phone: 0657-3090313
FAX : 0657-2310073

Agent : Sri Keshav Kumar
Village- Lawa, Thana -
Nimdih Dist. - Saraykela
Kharsawan Jharkhand
SARAIKELA-KHARASWAN
JHARKHAND
Phone: 9430349046
FAX : 91-657-2301243

Manager
Name : SARJU PANDEY
Qualification :
Appointment/
Termination date :

6. Date of approval of Mining Plan/Scheme of Mining : Fresh under rule 22 MCR1960 18/07/2011

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	6 Boreholes has Proposed during 2019-2020	3 Boreholes has drilled.	No Exploration has been carrying out as per proposal. Violation has been issued under Rule 11(1)
1b	Exploration over lease area for geological axis 1 or 2	6 -Additional exploration was proposed during 2020-2021 in the lease area for Geological axis - 1	3-Additional exploration was not carried out in the lease area for Geological axis - 1	No Exploration has been carrying out. Violation has been issued under Rule 11(1)
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Own drilling and/ or Contract drilling machines were proposed for Exploration.	3 Boreholes has drilled	Violation has been issued under Rule 11(1)
1d	Balance area to be explored to bring Geological axis in 1 or 2	6 Additional exploration was proposed in plan period (2020-2021) to explored G-1	Exploration was not carried out as per proposal and 3 boreholes have been drilled to explore for availability of ore from G-2/3 to G-1.	15 boreholes have drilled during 2019-2020 and 3 boreholes during 2020-2021 have been proved under G-1.
1e	Balance reserve as on 01/04/20	Reserves & Resources as on 01.04.2021 Proved Mineral Reserves (111) = 1239 tons Probable Mineral Reserves (122) = 7290 tons Indicated Mineral Resource (332) = 406393 tons. Inferred Mineral Resource (333) = 281577 tons.	Reserves & Resources as on 01.04.2021 Proved Mineral Reserves (111) = 11468 tons Probable Mineral Reserves (122) = 7290 tons Indicated Mineral Resource (332) = 406393 tons. Inferred Mineral Resource (333) = 281577 tons.	Gold grade is 2.02g/t. 2859 tons of ROM have been achieved during 2020-2021 against 13088 tons of proposal

1f	General remarks of inspecting officers on geology, exploration etc	It is part of Chaibasa stage of Iron ore series of Archaean age.	Area consists of argillaceous and arenaceous sediments, amphibolites, epidorites, vein quartz, phyllites, mica schist.	Mineralisation is controlled by shear running at the contact of quartzite with phyllite.
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Proposed to work in 3 Blocks during 2020-2021. (Bhalukhad, Tampahar & Lalkhadan)	Working has been not carried out as per the proposal	Violation has been issued under Rule 11(1)
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Not applicable	Nil	For underground mines, it is not applicable.
2c	Stripping ratio or ore to OB ratio	ROM to waste = 1 : 1.10 1 : 0.10		
2d	Quantity of topsoil generation in m3	No Proposal	Nil	
2e	Quantity of overburden generation in m3	There is no proposal to remove overburden, but proposal of development waste during 2020-2021 is 1426 tons	3166 tons of waste has been removed.	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Proposed to work in 3 Blocks during 2020-2021. (Bhalukhad, Tampahar & Lalkhadan)	3166 tons of waste has been removed against 1426 tons.	

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
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3a	Number of pit proposed for production	Proposed to work in 3 Blocks during 2020-2021. (Bhalukhad, Tampahar & Lalkhadan)	Development and production are not carried out as per proposal during 2020-2021	Violation has been issued under Rule 11(1)
3b	Quantity of ROM mineral production proposed	The total target of ROM Production was 13088 tons during 2020-2021.	2859 tons of ROM has been achieved during 2020-2021	
3c	Recovery of sailable/usable mineral from ROM production	No Proposal	Nil	
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 Sub Grade Generation	No Sub Grade Generation	
3g	Grade of sub grade mineral generation	There is No Generation of Subgrade Mineral	There is No Generation of Subgrade Mineral	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No Proposal	No such study carried out so far.	Gravity separation & carbon pulp method of recovering gold is using in beneficiation plant.
3j	Provision of drilling and blasting in mineral benches	Provision of drilling & blasting during development stage and in stopes	Drilling & Blasting are done as per proposal.	

3k	Provision of mining machineries in mineral benches	Jack Hammer Air compressor Tipper Rock drill Mine Cars Ventilation Fan	As per proposal machineries are available in field.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	No Proposal	Underground Mine
3m	Total area covered under excavation/pits	1.50 hect area is under Pit and additional 0.50 hect is required during 2020-2021	1.50 hect area is under Pit
3n	Ore to OB ratio for the pit/mine during the year.	ROM to waste = 1 : 1.10 1 : 0.10	
3o	Total area put in use under different heads at the end of year	Land use Pattern as on 01.04.2021. Mines = 2.00 hect Dump = 0.20 hect Plant = 0.70 hect	Land use Pattern as on 01.04.2021. Mines = 1.50 hect Dump = 0.20 hect Plant = 0.70 hect
3p	Production of ROM mineral during the last five year period as applicable	2020-2021 = 13088 tons	2020-2021 = 2859 tons 2019-2020 = 4807 tons 2018-2019 = 1638 tons
3q	General remarks of inspecting officers on method of mining etc.	Mechanised Method is Proposed	2859 tons of ROM have been achieved during 2020-2021 against 13088 tons of proposal

Mine starts its working from July 2018.

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)	It is proposed in Bhalukhand & Lakhadan	As per proposal dumping is formed
4b	Location of topsoil, OB and mineral reject dumps	Nearer to adit L3 & B3	Dump is formed in proposed area
4c	Number of dumps within lease area and outside of lease area	2 Dumps	2 Dumps
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside the UPL	Outside the UPL
4e	Number of active and alive dumps.	2 Dumps	2 Dumps
4f	Number of dead dumps.	No Proposal	It is Underground Mine
4g	Number of dumps established.	No Proposal	It is Underground Mine
4h	Whether Retaining wall or garland drain all along dumps are there.	No Proposal	It is Underground Mine
4i	Length of Retaining wall or garland drain all along dumps	No Proposal	It is Underground Mine
4j	Number of settling ponds	No Proposal	It is Underground Mine
4k	Specific comments of inspecting officer on waste dump management	It is proposed in Bhalukhand & Lakhadan	Dump is formed in proposed area

Solid Waste Management - Backfilling:

Sl.No.	Item	Proposals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	Cut & fill method is proposed.	As per proposal filling is not done.	Violation has been issued under Rule 11(1)

5b	Area under backfilling of mined out area	Stope Block-1 & 2	As per proposal filling is not done.	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No Proposal	Nil	
5d	Total area fully reclaimed and rehabilitated	No Proposal	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Cut & fill method is proposed.	As per proposal filling is not done.	Mining has started from July 2018.

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).	It should be on or before 1st July every year.	Submitted for the year 2020-2021.	
6b	Area available for rehabilitation (ha) .	No Proposal	Nil	
6c	afforestation done (ha).	No Proposal	Nil	
6d	No. of saplings planted during the year	No Proposal	Nil	
6e	Cumulative no .of plants	No Proposal	Nil	
6f	Any other method of rehabilitation	No Proposal	Nil	
6g	Cost incurred on watch and care during the year	No Proposal	Nil	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No Proposal	Nil	

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No Proposal	Nil	
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	No Proposal	Nil	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No Proposal	Nil	
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	No Proposal	Nil	
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	No Proposal	200 saplings achieved during 2020-2021 inside the lease area and 200 outside the lease area.	Cumulatively 1200 saplings have been planted inside the lease area and 1700 saplings outside the lease area.
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	No Proposal	0.50 hectares	
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	No Proposal	Nil	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Bi-Annually Survey	Environment monitoring is carried out through own as well as private agency.	

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Environment monitoring is carried out through own as well as private agency.	200 saplings achieved during 2020-2021 inside the lease area and 200 outside the lease area.	Cumulatively 1200 saplings have been planted inside the lease area and 1700 saplings outside the lease area.
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	The total target of ROM Production was 13088 tons during 2020-2021.	2859 tons has been achieved during 2020-2021.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical Process	Mechanical Process	
7c	Different grade of mineral sorted out at mines.	No proposal for grade wise sorting	Nil	
7d	Any beneficiation process at mines	Gravity separation & carbon pulp method of recovering gold is using in beneficiation plant.	As per proposal beneficiation is done	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	The total target of ROM Production was 13088 tons during 2020-2021.	2859 tons has been achieved during 2020-2021.	Gravity separation & carbon pulp method of recovering gold is using in beneficiation plant.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No Proposal	Nil	The mine is underground working so there is no generation of topsoil

8b	Concurrent use or storage of topsoil	No Proposal	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	It is proposed in Bhalukhand & Lakhadan	As per proposal dumping is formed	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No Proposal	Nil	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No Proposal	Nil	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	No Proposal	200 saplings achieved during 2020-2021 inside the lease area and 200 outside the lease area.	Cumulatively 1200 saplings have been planted inside the lease area and 1700 saplings outside the lease area.
8g	Survival rate	No such proposal in the approved document	70%	
8h	Water sprinkling on roads to control airborne dust	Yes, it is proposed for water sprinkling on haul roads.	Water sprinkling on road is observed during the inspection.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Scanty vegetation are observed in lease area	Surrounding area beyond lease area is greenery. The area is hilly terrain.	Area is in forest and there is no agricultural land within the lease.

Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	MR Submitted up to = August 2021 AR Submitted up to = 2020-2021	Both Annual & Monthly returns are submitting in online system.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Full time Mining Engineer and Geologist has shown	As per record Mining Engineer and Geologist are present during Inspection
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Land use Pattern as on 01.04.2021. Mines = 2.00 hect Dump = 0.20 hect Plant = 0.70 hect	Landuse Pattern is filled as per approved Mining Plan
9d	Scrutiny of Annual return on afforestation	200 saplings achieved during 2020-2021 inside the lease area and 200 outside the lease area.	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	There is no Mineral Rejects Generation	There is no Mineral Rejects Generation
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Gold ROM Stock as on 01.04.2021 ROM Opening stock & ROM Closing stock = Nil	Mine has produced 2859 tons of Production during 2020-2021
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost of Production & Ex. Mine Price has shown	It is captive consumption
9h	Scrutiny of Annual return on fixed assets	Fixed Assets is given	Fixed Assets is filled

9k Scrutiny of Machineries As available in field
Annual return on details given
mining
machineries

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)	28/10/2021	

Date :

(G. S. KANNAN)

Indian Bureau of Mines