

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

**MCDR inspection REPORT
Jabalpur regional office**

Mine file No : MP/PNA/DIA-3

Mine code : 17MPR26001

- (i) Name of the Inspecting : **K006**) **NARESH KUMAR KATARIYA**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : S/Sh P S Dhruw(Mines Manager
Official with
Designation
- (iv) Date of Inspection : 06-FEB-21
- (v) Prev.inspection date : 14-FEB-19

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **MAJHGAWAN**
- (b) **Registration NO.** : **IBM/270/2011**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
State : MADHYA PRADESH
District : PANNA
Village : HINOTA
Taluka : PANNA
Post office : MAJHGAWAN
Pin Code : 488101
FAX No. : 07732-271474
E-mail : pksatpathy@nmdc.co.in
Phone : 040-23538706
- (f) Police Station : Panna
- (g) First opening date : 01-JUN-66
- (h) Weekly day of rest : SUN
2. Address for : NATIONAL MINERAL DEV. CORPN. LTD.
correspondance : P.O.MAJHGAWAN, DIST. PANNA (M.P.) 488101
3. (a) Lease Number : MPR1201
- (b) Lease area : 113.33
- (c) Period of lease : 20
- (d) Date of Expiry : 14-JUL-25
4. Mineral worked : DIAMOND Main

5. Name and Address of the

Lessee : NATIONAL MINERAL DEV. CORPN. LTD.
 P.O. MAJHGAWAN, PANNA
 MADHYA PRADESH
 Phone:N. A.
 FAX :N. A.

Owner : NATIONAL MINERAL DEV. CORPN. LTD.
 P.O. MAJHGAWAN, PANNA
 MADHYA PRADESH
 Phone: N. A.
 FAX : N. A.

Agent : S.K.AGRAWAL
 HYDERABAD TELANGANA
 Phone: 040-3538706
 FAX :

Mining Engineer

Name : S.K.MUKHOPADHYAY, Full Time
 Qualification : B.E (MINING)
 Appointment/ :
 Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	08-AUG-05
Plan/Scheme of Mining		Renewal under rule 24 MCR1960	14-MAR-06
		Mining Scheme rule 12 MCDR1988	29-SEP-10
		Mining Scheme rule 12 MCDR1988	26-AUG-15
		MP modif under 17(3) MCR 2016	27-NOV-18
		MP review under 17(1) MCR 2016	28-FEB-20

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	NIL	
1b	Exploration over lease area for geological axis 1 or 2	Nil	NIL	In the potential mineralised area exploration completed in the G-1 axis. Total 9.746 Ha area explored in G-1 and 103.586 Ha area considered in Non Mineralised area as per geological considerations.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NA	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	NIL	In the potential mineralised area exploration completed in the G-1 axis. Total 9.746 Ha area explored in G-1 and 103.586 Ha area considered in Non Mineralised area as per geological considerations.
1e	Balance reserve as on 01/04/20		Balance reserve as on 01.04.2020 : 8.92 MT Balance reserve as on 01.04.2021 : 8.86 MT	

1f	General remarks of inspecting officers on geology, exploration etc	The mine is situated in buffer zone of Panna Tigar Reserve and have single pit working. Exploration has been completed under G-1 axis in the potential mineralised area as per provided records.
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Development proposed in depth of the existing pit in the RY 2019-20 & 2020-21	In depth of the existing pit	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes	Benches maintained as per proposal of approved document.	
2c	Stripping ratio or ore to OB ratio	1:1.08	OB not removed in the RY 2019-20 & 2020-21	Violation pointed out for the same.
2d	Quantity of topsoil generation in m3	NIL	NIL	
2e	Quantity of overburden generation in m3	For RY 2019-20: 64000 CuM For RY 2020-21: 325200 CuM	NIL	Violaiton pointed out for the same.

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	OB Proposed to be generated total 64000 CuM quantity in RY 2019-20 & 325200 CuM quantity in RY 2020-21. During inspection deviation observed in the working faces both in vertical and lateral direction. Violation pointed out for the same.
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	
3b	Quantity of ROM mineral production proposed	In RY 2019-20: 350000 T In RY 2020-21: 300000 T	In RY 2019-20: 155672 T In RY 2020-21: 63010 T	
3c	Recovery of sailable/usable mineral from ROM production	Gems of different quality	Gems (negligible in terms of weight)	
3d	Quantity of mineral reject generation	Approx equal to Production proposal (Negligible quantity deducted due to recovery of Gems)	Approx equal to Production achieved (Negligible quantity deducted due to recovery of Gems)	
3e	Grade of mineral rejects generation and threshold value declared.	Nil	Nil	
3f	Quantity of sub grade mineral generation.	Nil	Nil	
3g	Grade of sub grade mineral generation	NA	NA	

3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized	Mechanized
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NA	NA
3j	Provision of drilling and blasting in mineral benches	Yes	Yes
3k	Provision of mining machineries in mineral benches	Yes	Yes
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes
3m	Total area covered under excavation/pits	In the RY 2019-20: 13.3 Ha In the RY 2020-21: 14.138 Ha	In the RY 2019-20: 13.3 Ha In the RY 2020-21: 13.3 Ha
3n	Ore to OB ratio for the pit/mine during the year.	1:1.08	NA
3o	Total area put in use under different heads at the end of year	In the RY 2019-20: 77.512 Ha In the RY 2020-21: 80.337 Ha	In the RY 2019-20: 77.512 Ha In the RY 2020-21: 77.896 Ha
3p	Production of ROM mineral during the last five year period as applicable	2016-17 750000 2017-18 750000 2018-19 350000 2019-20 350000 2020-21 300000	2016-17 262052 2017-18 245015 2018-19 282383 2019-20 155672 2020-21 63010

3q General remarks of inspecting officers on method of mining etc.

Opencast method of mining proposed in the approved document. Mine working was found as per proposal.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No top soil proposed to be generated in the RY. Top soil generated earlier has been utilized for plantation.	As per proposal	
4b	Location of topsoil, OB and mineral reject dumps	OB -DUMP;MML COARSE TAILING :MML	OB -DUMP;MML COARSE TAILING :MML	
4c	Number of dumps within lease area and outside of lease area	Two	Two	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Out side the UPL	Out side the UPL	
4e	Number of active and alive dumps.	Two	Two	
4f	Number of dead dumps.	Nil	Nil	
4g	Number of dumps established.	NA	NA	
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	Yes	

4i	Length of Retaining wall or garland drain all along dumps	In the RY 2019-20: 100 m Retaining Wall & 75m Garland drain In the RY 2020-21: Retaining wall 862m	100 m Retaining Wall & 75m Garland drain In the RY 2020-21: Retaining wall 862m	
4j	Number of settling ponds	One	One (It lies in Both the leases SML & MML)	
4k	Specific comments of inspecting officer on waste dump management			Waste dump management is being found as per proposal in the approved document.

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.	full extraction of mineral from mined out area up to the ultimate pit limit before starting backfilling.	full extraction of mineral from mined out area up to the ultimate pit limit before starting backfilling.	
5b	Area under backfilling of mined out area	Not proposed	Not done	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Top soil is utilised for plantation	Top soil is utilised for plantation	
5d	Total area fully reclaimed and rehabilitated	Not proposed	NA	

5e	General remarks of inspecting officers on backfilling and reclamation etc.	As per provided records, full extraction of mineral from mine area is not completed for starting the backfilling
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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).	Yes	Yes	
6b	Area available for rehabilitation (ha) .	Nil	Nil	Mining is being continued in single pit. No proposal for rehabilitation.
6c	afforestation done (ha).	Nil	Nil	
6d	No. of saplings planted during the year	Nil	Nil	
6e	Cumulative no .of plants	Plantation proposed in 95.7 Ha area cumulative for MML and SML. The lease in buffer zone of Panna tigar reserve.	Plantation done in 95.7 Ha area cumulative for MML and SML. The lease in buffer zone of Panna tigar reserve.	
6f	Any other method of rehabilitation	NOT PROPOSED	NA	
6g	Cost incurred on watch and care during the year	NO PROPOSED	NA	

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	NIL	NIL
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NIL	NIL
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	NIL	NIL
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NIL	NIL
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	NOT PROPOSED	NA
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	In the RY 2019-20: 1000 PLANTS In the RY 2020-21: 500 PLANTS	In the RY 2019-20: 1000 PLANTS In the RY 2020-21: 2425 PLANTS
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NIL	NIL

6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	PLANTATION	PLANTATION	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes	Ambient Air, Water ,Noise are done in quarterly as per provided records	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			PMCP compliance are being done as per proposal as per observation during inspection and as per provided records.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM mineral is proposed to directly dispatched to the plant for processing.	ROM directly dispatched to plant for processing.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	NA	NA	
7c	Different grade of mineral sorted out at mines.	NA	NA	
7d	Any beneficiation process at mines .	Benficiation process is being done in the plant.	Benficiation process is being done in the plant.	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Complete ROM is being dispatched to plant for further processing of the mineral.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No top soil removal proposed in the RY	NIL	
8b	Concurrent use or storage of topsoil	NIL	TOP SOIL UTILIZED FOR PLANTATION	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	YES	YES	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	YES (PROPOSAL GIVEN IN THE CONCEPTUAL MINING PLAN)	YES	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	YES	YES	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Plantation proposed in 95.7 Ha area cumulative for MML and SML. The lease in buffer zone of Panna tigar reserve.1000 plants in the RY 2019-20 & 500 plants in the RY 2020-21.	Plantation done in 95.7 Ha area cumulative for MML and SML.1000 plants in the RY 2019-20 & 2425 plants in the RY 2020-21.	
8g	Survival rate	80%	80%	
8h	Water sprinkling on roads to control airborne dust	YES	YES	

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	The mine is established in the forest of Panna, the area in and around the mining lease is covered with afforestation.
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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Yes	Monthly and annual return submitted in time for the RY 2019-20. Monthly returns of RY 2020-21 have been submitted & Annual Return not submitted for the RY 2020-21	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Yes	Mining Engineer - Sri Sanjay Kumar AGM(Mining) Geologist - Sri Jitendra Kumar Dy.Manager(Geology)	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Yes	77.896 Ha	
9d	Scrutiny of Annual return on afforestation	Yes	1000 saplings planted in 0.5 Ha area in the RY 2019-20.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Yes	In the RY 2019-20: 279398 tonnes	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	yes	SP1, SP2, SP3, Dynamic , White tuff SP	

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	YES	As per AR of RY 2019-20: Ex.Mine price- Rough and uncut stones - 28012.60 Cut and Polished Stones - 2984.69 Industrial - 1899.48 Others - 32896.77 COST OF PRODUCTION PER TONNE: 4203.64
9h	Scrutiny of Annual return on fixed assets	YES	11.62 Crores
9k	Scrutiny of Annual return on mining machineries	YES	BLAST HOLE DRILL (ELEC.) 115.000 MM 2 BACK HOE 2.500 CUM 1 BACK HOE 2.300 CUM 1 FRONT END LOADER 3.400 CUM 1 DUMPER 50.000 TONNE 2 DUMPER 40.000 TONNE 1 DUMPER 35.000 TONNE 2 CRANE 2 DOZER 410.000 HP 1 DOZER 324.000 HP 1 MOTOR GRADER 318.000 HP 1 EXPLOSIVE VAN 3.000 T 1 WATER TANKER 2 Crusher 2 CONVEYOR (ELEC.) 7 FRONT END LOADER 1

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)	18-MAY-21			

Date :

(NARESH KUMAR KATARIYA)

Indian Bureau of Mines