

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

**Review and updation of Mining Plan REPORT**

**Jabalpur regional office**

**Mine file No :** MP/PANNA/DAIMND-7

**Mine code :** 17MPR26004

- (i) Name of the Inspecting : **G005** ) **SANJAY M. GIRHE**  
Officer and ID No.
- (ii) Designation : Regional Mining Geologist
- (iii) Accompanying mine :  
Official with  
Designation
- (iv) Date of Inspection : 10-DEC-19
- (v) Prev.inspection date :

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **MAJHGAWAN 450.235 HA**
- (b) **Registration NO.** :
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :  
State : MADHYA PRADESH  
District : PANNA  
Village :  
Taluka :  
Post office :  
Pin Code :  
FAX No. : N. A.  
E-mail : N. A.  
Phone : N. A.
- (f) Police Station :
- (g) First opening date : 06-JAN-66
- (h) Weekly day of rest :
2. Address for : NATIONAL MINERAL DEV. CORPN. LTD.  
correspondance : P.O.MAJHGAWAN, DIST. PANNA (M.P.) 488101
3. (a) Lease Number : MPR1199
- (b) Lease area : 162.63
- (c) Period of lease : 20
- (d) Date of Expiry : 30-JUN-30
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.

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	16-MAY-06
Plan/Scheme of Mining		FMCP under 23C(1)	06-JUN-06
		Mining Scheme rule 12 MCDR1988	02-MAR-10
		Renewal under rule 24 MCR1960	03-MAR-11
		Mining Scheme rule 12 MCDR1988	03-SEP-15
		MP modif under 17(3) MCR 2016	14-JAN-19

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No exploration was proposed during approved modified plan period 01/10/2018 to 2019-20	No exploration carried out during the year 2018-19	
1b	Exploration over lease area for geological axis 1 or 2	No exploration was proposed during the year 2018-19	In past phase wise exploration was carried for geological axis 1 & 2 as Year-1952- 55 -: 13 BHs were drilled with 568mts Year -1956-59 -: 19 BHs were drilled with 1152 meterages Year -1961-72 -: 154 BHs were drilling with 3700 meterage Year - 1991-94 -: 14 BHs were drilled with 2413 meterage	In past exolpration were carried for the both the main mining lease area (MML) & supplementary mining lease area (SML) jointly in phase wise manner.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	During the year 2018-19 no exploration was proposed.	In past exploration carried was out by 1. Panna Diamond Mining Sysndicate (PDMS) 2. MECL/GSI 3. NMDC No exploration expenditure details provided in approved MMP	Total 200 boreholes were drilled with cummulative meterage of 7833 mts. In addition to this 21 trial pits were also maded.
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposals for further exploration in approved MMP	The entire lease area has been explored for G3/G4 level of Exploration and the area is found to be mostly non-mineralized. Hence, no further exploration is proposed.	

1e	Balance reserve as on 01/04/20	Reserves in Tonnes as on 01.04.2018 Proved(111) - Nil Probable (121)-5,300 MT Resources in Tonnes Feasibility(221): Nil Pre-feasibility (221&222) ; Nil Measure (331) - Nil, Indicated (332) - Nil, Inferred (333) - Nil	Reserves in Tonnes as on 01.04.2019 Proved(111) -Nil Probable (121)-5,300 MT Resources in Tonnes Feasibility(221): Nil Pre-feasibility (221&222) ; Nil Measure (331) - Nil, Indicated (332) - Nil, Inferred (333) - Nil	Very limited reserves are available in lease area as most of mineralisation encountered in adjoining main mining lease area of NMDC
1f	General remarks of inspecting officers on geology, exploration etc	NA	NA	The majhgawan diamond pipe is surrounded on all the side by Kaimur sandstone & is considered as intusive in it. Diamonds occured in kimberlite pipe. Significant amount of exploration carried out in lease area but proved as maxium area as non mineralised.

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Development :

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Sl.No.	Item	Propasals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	No development proposed during the year 2018-19	No development carried out during the year	As on date very limited reserves of 5300 M.T. are available in the lease area. Most of the area is non mineralised hence no proposals of development have been given.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Not proposed	Nil	As on date very limited reserves of 5300 M.T. are available in the lease area. Most of the area is non mineralised hence no proposals of development have been given.
2c	Stripping ratio or ore to OB ratio	Not Proposed	Nil	
2d	Quantity of topsoil generation in m3	Not Proposed	Nil	
2e	Quantity of overburden generation in m3	Not Proposed	Nil	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	NA	NA	Majhgawan Kimberlite Pipe was intruded intruded in Kaimur sandstone of precambrian age. Belt cover about 1000m2 area in panna district. It occurs in the form of conglomerate & gravel deposit within the area.

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Exploitation:

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Sl.No.	Item	Propasals	Actual work	Remarks
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3a	Number of pit proposed for production	No pits proposed for production	Nil	
3b	Quantity of ROM mineral production proposed	ROM (Kimberlite) not proposed during the year 2018-19	Not Applicable	
3c	Recovery of sailable/usable mineral from ROM production	Not Proposed	Nil	
3d	Quantity of mineral reject generation	Not Proposed	Nil	Nil
3e	Grade of mineral rejects generation and threshold value declared.	Mineral reject generation not proposed during the year 2018-19	Nil	
3f	Quantity of sub grade mineral generation.	Not proposal given in approved document for sub-grade mineral generation	Nil	
3g	Grade of sub grade mineral generation	No Proposals	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	No Proposals	Nil	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposals given in approved document	Nil	
3j	Provision of drilling and blasting in mineral benches	Not Proposed	Nil	

3k	Provision of mining machineries in mineral benches	No proposals were given in approved document	Nil	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Not Proposed	Overall 10m height of individual bench being maintained	
3m	Total area covered under excavation/pits	1.433Ha	1.433Ha as on date	
3n	Ore to OB ratio for the pit/mine during the year.	No production/development proposals were given during 2018-19	Not Applicable	
3o	Total area put in use under different heads at the end of year	As on 01.04.2018 Area under current pit working-1.433Ha Mineral Storage-7.090Ha Infrastructure-3.625Ha Road-2.0Ha Green Belt-9.71Ha Tailing Pond-5.99Ha Mineral separation Plant-4.070Ha Township-18.36Ha	As on 01.04.2019 Area under current pit working-1.433Ha Mineral Storage-7.090Ha Infrastructure-3.625Ha Road-2.0Ha Green Belt-9.71Ha Tailing Pond-5.99Ha Mineral separation Plant-4.070Ha Township-18.36Ha	Mining operations have been stopped due to limited mineral/ore reserves in the lease area. During the year 2018-19 no production/development proposals were given.

3p	Production of ROM mineral during the last five year period as applicable	Year -: 2015-16 -: No Proposals Year -: 2016-17 -: No Proposals Year -: 2017-18 -: No Proposals Year -: 2018-19 -: No Proposals Year -: 2019-20 -: No Proposals	Year -: 2015-16 -: Nil Year -: 2016-17 -: Nil Year -: 2017-18 -: Nil Year -: 2018-19 -: Nil Year -: 2019-20 -: Nil	Mining operations have been stopped since long back due to limited mineral/ore reserves in the lease area. No production proposals were given as approved document.
3q	General remarks of inspecting officers on method of mining etc.	As approved document method of mining was proposed by opencast method by deploying hydraulic shovel & dumpers cobmbination.	Mine is non operational since long back as very limited reserves are remaining in the lease area. Single working Pit from other adjoining Main mining lease extended in this lease area. Pit dimension- 200m x 80m 80-90m.	Nil

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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 Proposed	Top soil generated previously have been utilized for plantation purpose.	
4b	Location of topsoil, OB and mineral reject dumps	Separate dumping of topsoil, OB/IB, mineral reject and waste has not been proposed in the approved document.	Coarese Tailing dumps is loacated towards North-East side of lease area between ML boundary pillars No-B/10 to B/15	NA

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4c	Number of dumps within lease area and outside of lease area	Coarse tailing dump situated in between E 402900 to E403200 & N272600 to N2726500	Coarse tailing dump situated in between E 402900 to E403200 & N272600 to N2726500. No dumps outside mining lease area.	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No dumping proposals	Existing dump outside the ultimate pit limit	
4e	Number of active and alive dumps.	Active dump- 01 No	Active dump- 01 No	
4f	Number of dead dumps.	Nil	No dead dump within lease area	
4g	Number of dumps established.	Not proposed in the approved document.	Not Applicable	
4h	Whether Retaining wall or garland drain all along dumps are there.	Proposal for construction of garland drain along the periphery of tailing dump was given.	Garland drain has been constructed along the tailing dump.	
4i	Length of Retaining wall or garland drain all along dumps	Length of garland drain 350m	Length of garland drain 350m	
4j	Number of settling ponds	One settling tank in lease area	One settling tank in lease area	
4k	Specific comments of inspecting officer on waste dump management	NA	NA	No overburden dumps encountered in the lease area. Mine is non operational since long back. Necessary tailing dump management has been carried out

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Solid Waste Management - Backfilling:

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Sl.No.	Item	Propasals	Actual work	Remarks
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5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	No proposal has been given for full extraction of mineral/ore before backfilling.	Limited reserves reported in existing only one pit where full extration of ore not attended so far.	
5b	Area under backfilling of mined out area	No Proposals	No area under backfilling as of now.	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No such proposals given in approved document	Nil	
5d	Total area fully reclaimed and rehabilitated	Not Proposed	Presently, scope of reclamation & rehabilitation doesnot exists as area not matuared so far for the same.	
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Not proposed in approved document.	As on date, requisite area has not been matured for backfilling & reclamation.	Nil

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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).	Not submitted for the review year	Mine is non-operational since long back as very limited mineralisation established in the lease area.	Nil
6b	Area available for rehabilitation (ha) .	Area not available for rehabilitation as of now.	Mine is non operational since long back.	

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6c	afforestation done (ha).	Total 2000 saplings proposed to be planted in MML & SML (Main mining lease & Supplementary mining lease)	2000 nos of saplings replaced in lease area.
6d	No. of saplings planted during the year	Total 2000 saplings proposed to be planted during the year	2000 saplings planted/replaced in lease area.
6e	Cumulative no .of plants	10000 Nos	10000 Nos
6f	Any other method of rehabilitation	Not Proposed	Not Applicable
6g	Cost incurred on watch and care during the year	Not given in approved document	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	Not Proposed	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not Proposed	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	Not Proposed	Nil

6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not Proposed	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	Not Proposed	Nil
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	2000 Nos of saplings proposed to be planted in lease area	Plantation done as per the proposals
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	Not given in approved document	Nil
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	By Plantation method	By Plantation method
6p	Compliance of environmental monitoring (core zone and buffer zone)	Periodical Air, Water, Noise monitoring Proposed in approved document	Periodical Air, Water, Noise monitoring carried out as per proposals

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	NA	NA	Mine is non-operational since long back as sufficient mineralisation/reserves are not available in the lease area. Therefore, presently scope of backfilling/reclamation & rehabilitation doesn't exist and no proposals are given. Periodic monitoring is being carried out by in-house.
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Mineral Conservation:

Sl.No.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Not Proposed	Nil	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Not Proposed in approved document	Nil	
7c	Different grade of mineral sorted out at mines.	Not Proposed	Nil	
7d	Any beneficiation process at mines .	Wet beneficiation/ crushing facility is established in adjoining main mining lease for separation of diamond by gravity method.	Wet beneficiation/ crushing facility is established in adjoining main mining lease for separation of diamond by gravity method.	

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7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	NA	NA	Mineral conservation is very well practised as micro diamond available in coarse tailing of size ranging from +2.5mm to -18mm being preserved for future use. Well established beneficiation/crushing plant is existing in the lease area.
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Environment:

Sl.No.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Not Proposed	Nil	
8b	Concurrent use or storage of topsoil	Not Proposed	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Not Proposed	Separate dump of mineral reject/tailing available in lease area	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not Proposed	Nil	

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8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not Proposed	Nil	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	2000 Saplings proposed to be plantated.	Plantation done as per proposals. Cummulative 10000 nos of saplings planted	
8g	Survival rate	Not given in approved document	Anuual return couldnot be filed by lessee due to some technical problem	
8h	Water sprinkling on roads to control airborne dust	Not Proposed	Nil	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	NA	NA	Aesthetic beauty in and around mine area is excellent & significant numbers of plantation carried out by the lessee in & around mining lease area.

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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. not submitted upto - 30/111/2019 A.R. for the year 2018-19 not submitted	As reported during inspection, some technical problem is being faced by the applicant/lessee in filing return	

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9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Return not submitted	Return not submitted	As reported during inspection, some technical problem is being faced by the applicant/lessee in filing return
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Retrun not submitted	Nil	As reported during inspection, some technical problem is being faced by the applicant/lessee in filing return
9d	Scrutiny of Annual return on afforestation	Return not submitted	Nil	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Retrun not submitted	Nil	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Return not submitted	Nil	As reported during inspection, some technical problem is being faced by the applicant/lessee in filing return
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Return not submitted	Nil	
9h	Scrutiny of Annual return on fixed assets	Return not submitted	Nil	



9k	Scrutiny of Annual return on mining machineries	Return not submitted	Nil	As reported during inspection, some technical problem is being faced by the applicant/lessee in filing return. Mine is non-working since long back due to very limited reserves available in lease area.
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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 12(4)	18-MAR-20	08-JUN-20				
MCDR17	Rule 24(1)	18-MAR-20	08-JUN-20				

**Date :**

**(SANJAY M. GIRHE)**

Indian Bureau of Mines