

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

**Review and updation of Mining Plan REPORT**

**Jabalpur regional office**

**Mine file No :** MP/SDH/BX-1

**Mine code :** 07MPR41004

- (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 : 11-JUN-21
- (v) Prev.inspection date :

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **NAIKIN ( 2.57 ACAR )**
- (b) **Registration NO.** :
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address  
State : MADHYA PRADESH  
District : SIDHI  
Village : NAIKIN  
Taluka : RAMPUR NAIKIN  
Post office : RAGHUNNATHPUR  
Pin Code :  
FAX No. : N. A.  
E-mail : N. A.  
Phone : N. A.
- (f) Police Station :
- (g) First opening date : 23-MAR-82
- (h) Weekly day of rest : SUN
2. Address for : M/S SHRIKRISHNA DAS TIKARAM  
correspondance P.BOX NO.156, CIVIL LINES, KATNI (M.P.) 483501
3. (a) Lease Number : MPR0864  
(b) Lease area : .55  
(c) Period of lease : 20  
(d) Date of Expiry : 25-FEB-97
4. Mineral worked : BAUXITE Main

## 5. Name and Address of the

Lessee : SHRIKRISHNA DAS TIKARAM  
 CIVIL LINES KATNI MADHYA  
 PRADESH  
 Phone:07622-230881  
 FAX :N. A.

Owner : SHRIKRISHNA DAS TIKARAM  
 AT & P.O. KATNI, CIVIL  
 LINES AT & P.O. KATNI, MP  
 KATNI MADHYA PRADESH  
 Phone: 07622-230881  
 FAX : N. A.

6. Date of approval of Mining	:	Renewal under rule 22 MCR1960	05-JAN-96
Plan/Scheme of Mining		Modif.approved Mining Scheme	08-JAN-02
		Mining Scheme rule 12 MCDR1988	20-APR-12
		MP modif under MCR 1960	31-AUG-16

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No Proposals	Nil	In MMP approved on 31.08.2016, no exploration proposals was given
1b	Exploration over lease area for geological axis 1 or 2	No Proposal	Nil.	In MMP approved on 31.08.2016, no exploration proposals was given
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No Proposals	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No Proposals	Entire ML area of 1.04Ha explored in G1 level	Most of ML area explored by way of working pits only
1e	Balance reserve as on 01/04/20	Reserves in Tonnes Proved(111) - 46218 MT Resources in Tonnes Feasibility(221): 37824 MT As per MMP approved on 31.08.2016	Reserves in Tonnes Probable (122) - 42273 MT Resources in Tonnes Pre-Feasibility (222): 37824 MT As per annual return for the year 2020-21	No additional Reserves/resources have been estimated but the same have re-assessed as per the provisions of MEMC Rules,2015
1f	General remarks of inspecting officers on geology, exploration etc	No Proposals	Nil	The deposit of lease area is derived from Upper Rewa Sandstone in Rewa group of Vindhyan Super Group. Bauxite deposit occurred in pocket form.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	Bauxite production was proposed in between grid 0M to E100M towards south-eastern part from 299mRL to 290mRL	Nil	Mine was non-operation/temporarily discontinued since 01.07.2018 due to non-availability of EC
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Top soil bench of 1mts & bauxite of 3mts proposed	Not carried out as proposed	Mine was non-operation/temporarily discontinued since 01.07.2018 due to non-availability of EC
2c	Stripping ratio or ore to OB ratio	1:0.28 Tonne/CuM	Nil.	Mine was non-operation/temporarily discontinued since 01.07.2018 due to non-availability of EC
2d	Quantity of topsoil generation in m3	36 CuM proposed	Acheived "Nil"	Mine was non-operation/temporarily discontinued since 01.07.2018 due to non-availability of EC
2e	Quantity of overburden generation in m3	639 CuM overburden proposed during 2020-21	Nil	Mine was non-operation/temporarily discontinued since 01.07.2018 due to non-availability of EC
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	NA	NA	Very samll lease area & previously working were carried out in two pits & its dimensions: (Pit-1: 40m x 17m x 2.5m) & (Pit-2: 105m x (40-80)m x 5-9m)

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**Exploitation:**

Sl.No.	Item	Propasals	Actual work	Remarks
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3a	Number of pit proposed for production	In Single Pit	Working not carried out as per the proposals	Mine was non-operation/temporarily discontinued since 01.07.2018 due to non-availability of EC
3b	Quantity of ROM mineral production proposed	Bauxite (ROM) as 5879 Tonnes	Nil production during the year 2020-21	Mine was non-operation/temporarily discontinued since 01.07.2018 due to non-availability of EC
3c	Recovery of sailable/usable mineral from ROM production	80% fro total ROM generation	Nil	Mine was non-operation/temporarily discontinued since 01.07.2018 due to non-availability of EC
3d	Quantity of mineral reject generation	Not Proposed	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	Not Proposed	Nil	
3f	Quantity of sub grade mineral generation.	Not Proposed	Nil	Nil
3g	Grade of sub grade mineral generation	Not Proposed	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	Mauual sizing, sorting & manual screening	Not done	Mine was non-operation/temporarily discontinued since 01.07.2018 due to non-availability of EC
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not Proposed	Nil	Nil

3j	Provision of drilling and blasting in mineral benches	Not Proposed	NA	Due friable nature of bauxite deposit, drilling & blasting is not required
3k	Provision of mining machineries in mineral benches	Manual method of working	Not carried out as per proposals	Mine was non-operation/temporarily discontinued since 01.07.2018 due to non-availability of EC
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bech height of 1m in top soil/OB & 3mts in bauxite benches	Found suitable	Mine was non-operation/temporarily discontinued since 01.07.2018 due to non-availability of EC
3m	Total area covered under excavation/pits	0.80 Ha area was proposed in approved MMP period i.e. 2016-17 to 2020-21	0.77 Ha as on date	Mine is non-operation/temporarily discontinued since 01.07.2018 due to non-availability of EC
3n	Ore to OB ratio for the pit/mine during the year.	1:0.28 Tonne/CuM	Nil	Mine is non-operation/temporarily discontinued since 01.07.2018 due to non-availability of EC
3o	Total area put in use under different heads at the end of year	As per the previous approved MMP dtd 31.08.2016 Pits-0.80 Ha Waste Dump - 0.10Ha Infrastructure -0.01Ha	As per the previous approved MMP dtd 31.08.2016 Pits-0.77 Ha Waste Dump -0.10Ha Infrastructure-0.01Ha Reclaimed/Rehabilitated- 0.112Ha As per annual return for the year 2020-21	Actual details as per annual return 2020-21

3p	Production of ROM mineral during the last five year period as applicable	2016-17-: 2894 MT 2017-18-: 4515 MT 2018-19-: 3922 MT 2019-20-: 4138 MT 2020-21-: 5879 MT	2016-17-: NA 2017-18-: NA 2018-19-: 2317.834 MT 2019-20-: Nil 2020-21-: Nil		Mine is non-operation/temporarily discontinued since 01.07.2018 due to non-availability of EC
3q	General remarks of inspecting officers on method of mining etc.	NA	NA		Manual method of mining was proposed during approved MMP. But, Mine was non-operation/temporarily discontinued since 01.07.2018 due to non-availability of EC

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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)	No separate dumping was proposed	NA	Concurrent use of OB for backfilling was proposed
4b	Location of topsoil, OB and mineral reject dumps	Not Proposed	NA	Concurrent use of OB for backfilling was proposed
4c	Number of dumps within lease area and outside of lease area	Single OB dumps towrads north-eastern part	Single OB dumps towrads north-eastern part	No dumps outside ML noticed
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	One OB dumps outside UPL	One OB dumps outside UPL	Location marked on updated surface plan
4e	Number of active and alive dumps.	No active dumps in ML area	No active dumps in ML area	Mine was non-operation/temporarily discontinued since 01.07.2018 due to non-availability of EC

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4f	Number of dead dumps.	One single OB dump	One single OB dump	Mine was non-operation/temporarily discontinued since 01.07.2018 due to non-availability of EC
4g	Number of dumps established.	No Proposals	Nil	Mine was non-operation/temporarily discontinued since 01.07.2018 due to non-availability of EC
4h	Whether Retaining wall or garland drain all along dumps are there.	No Proposals	Nil	
4i	Length of Retaining wall or garland drain all along dumps	No Proposals	Nil	
4j	Number of settling ponds	No Proposals	Nil	
4k	Specific comments of inspecting officer on waste dump management	No Proposals	Mine was non-operation/temporarily discontinued since 01.07.2018 due to non-availability of EC	Very meager quantity of OB generation was proposed for generation and concurrent use for reclamation was proposed.

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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.	No proposals	None of the working pit area is matured for reclamation & rehabilitation	Mine was non-operation/temporarily discontinued since 01.07.2018 due to non-availability of EC
5b	Area under backfilling of mined out area	No Proposals	Nil. Very less area of 0.112 Ha backfilled in 7.5m barrier zone only	

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5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Yes, concurrent use proposed	Nil. Mine was non-operation/temporary discontinued since 01.07.2018 due to non-availability of EC	Mine was non-operation/temporarily discontinued since 01.07.2018 due to non-availability of EC
5d	Total area fully reclaimed and rehabilitated	Very less area of 0.112 Ha backfilled in 7.5m barrier zone only	Very less area of 0.112 Ha backfilled in 7.5m barrier zone only	Mine was non-operation/temporarily discontinued since 01.07.2018 due to non-availability of EC
5e	General remarks of inspecting officers on backfilling and reclamation etc.	NA	NA	Very less quantity of top soil & overburden proposed for generation is concurrently proposed for backfilling. But, mine was non-operation/temporarily discontinued since 01.07.2018 due to non-availability of EC

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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).	To be submitted before 1st July of every year	Not Submitted as mine was non-operation/temporary discontinued since 01.07.2018 due to non-availability of EC	
6b	Area available for rehabilitation (ha) .	No Proposals	Nil	
6c	afforestation done (ha).	NA	NA	
6d	No. of saplings planted during the year	100 saplings proposed	50 saplings planted in ML & outside ML area	
6e	Cumulative no .of plants	NA	NA	Details not provided in approved document

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6f	Any other method of rehabilitation	Not Proposed	Nil	Nil
6g	Cost incurred on watch and care during the year	NA	NA	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( L x B x D	3000 CuM	Nil	Mine was non-operation/temporarily discontinued since 01.07.2018 due to non-availability of EC
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	1000 CuM	Nil	Mine was non-operation/temporarily discontinued since 01.07.2018 due to non-availability of EC
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	No Proposals	Nil	Mine was non-operation/temporarily discontinued since 01.07.2018 due to non-availability of EC
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No Proposals	Nil	Mine was non-operation/temporarily discontinued since 01.07.2018 due to non-availability of EC
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	No Proposals	Nil	Mine was non-operation/temporarily discontinued since 01.07.2018 due to non-availability of EC
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	Not Proposed	Nil	

6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Not Proposed	Nil	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Not Proposed	Nil	Mine was non-operation/temporarily discontinued since 01.07.2018 due to non-availability of EC
6p	Compliance of environmental monitoring (core zone and buffer zone)	Periodical Air, Water, Noise monitoring Proposed	Not done	Mine was non-operation/temporarily discontinued since 01.07.2018 due to non-availability of EC
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	NA	NA	Mine was non-operation/temporarily discontinued since 01.07.2018 due to non-availability of EC. Hence, the scope of PMCP compliance was not generated.

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#### Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	5879 Tonne of bauxite proposed for dispatch	Nil.	Mine was non-operation/temporarily discontinued since 01.07.2018 due to non-availability of EC
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manu	Manual sizing & sorting was proposed for deriving different grades of bauxite ore.

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7c	Different grade of mineral sorted out at mines.	Cement grade (Al <sub>2</sub> O <sub>3</sub> : +50%, SiO <sub>2</sub> : -3%, Fe <sub>2</sub> O <sub>3</sub> : 3% to 5%) & refractory grade (Al <sub>2</sub> O <sub>3</sub> : -42%, SiO <sub>2</sub> : 10-12%, Fe <sub>2</sub> O <sub>3</sub> : 18-22% )	Not done as proposed	Mine was non-operation/temporarily discontinued since 01.07.2018 due to non-availability of EC
7d	Any beneficiation process at mines	Not Proposed	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	NA	NA	Mine was non-operation/temporarily discontinued since 01.07.2018 due to non-availability of EC

#### Environment:

Sl.No.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Concurrent use for plantation purpose proposed	Not done.	Mine was non-operation/temporarily discontinued since 01.07.2018 due to non-availability of EC
8b	Concurrent use or storage of topsoil	Concurrent use for plantation purpose proposed	Not done	Mine was non-operation/temporarily discontinued since 01.07.2018 due to non-availability of EC
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Not Proposed	Nil	Concurrent use of OB for backfilling was proposed

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not Proposed	Nil	
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)	NA	25 saplings in ML & 25 saplings outside ML planted	
8g	Survival rate	NA	About 75% reported	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling is proposed by water tanker	No done	Mine was non-operation/temporarily discontinued since 01.07.2018 due to non-availability of EC
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	NA	NA	Aesthetic beauty in and around mine area is not much satisfactory as plantation not done up to that extent. Mine was non-operation/temporarily discontinued since 01.07.2018 due to non-availability of EC.

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Compliance of Rule 45:

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Sl.No.	Item	Proposals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	M.R. submitted upto- June- 2021 A.R. submitted upto- 2020-21	Online monthly & annual returns were submitted within stipulated period	MR & AR copies were produced at the time of inspection
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Not Given	Mine was non-operation/temporary discontinued since 01.07.2018 due to non-availability of EC.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given	Opencast working-0.770 Ha, Reclaimed/Rehabilitated- 0.112Ha, Waste Dumps- 0.10Ha	
9d	Scrutiny of Annual return on afforestation	Given	25 saplings in ML & 25 nos outside ML palnted	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Not Given	Nil	Mine was non-operation/temporariy discontinued since 01.07.2018 due to non-availability of EC.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Not Given	Mine was non-operation/temporary discontinued since 01.07.2018 due to non-availability of EC.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Not Given	Mine was non-operation/temporary discontinued since 01.07.2018 due to non-availability of EC.	
9h	Scrutiny of Annual return on fixed assets	Not Given	Mine was non-operation/temporary discontinued since 01.07.2018 due to non-availability of EC.	
9k	Scrutiny of Annual return on mining machineries	Not Given	Mine was non-operation/temporary discontinued since 01.07.2018 due to non-availability of EC.	



**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

**Date :****(SANJAY M. GIRHE)**

Indian Bureau of Mines