

**Mining Plan Modification REPORT**

**Jabalpur regional office**

**Mine file No :** MP/STN/LST-24

**Mine code :** 38MPR35294

- (i) Name of the Inspecting : **C004** ) **ROBERT SIMON C**  
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Shri. Mordwaj Mishra (Nominated Owner), Sunil K Soni (QP)  
Official with :  
Designation : Manager & Mining Engineer Shri Anil Kumar
- (iv) Date of Inspection : 29-JUL-22
- (v) Prev.inspection date : 13-JUL-21

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **BHATIA KALA (107.782 HA)**
- (b) **Registration NO.** :
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address :  
State : MADHYA PRADESH  
District : SATNA  
Village : BHATIA KALA  
Taluka : RAGHURAJ NAGAR  
Post office : SAGMANIA  
Pin Code : 485114  
FAX No. : NA  
E-mail : NA  
Phone : NA
- (f) Police Station :
- (g) First opening date :  
**29.09.2004** :
- (h) Weekly day of rest :
2. Address for : M/S SHRI MARUTAYA BALAJI STEEL LTD.  
correspondance : 5, BENTRICK STREET, KOLKATA (W.B.)
3. (a) Lease Number : MPR2036  
(b) Lease area : 107.78  
(c) Period of lease : 30  
(d) Date of Expiry : 28-SEP-34
4. Mineral worked : LIMESTONE Main

1740557/2023 and Address of the

Lessee : SHRI MARUTAYA BALAJI STEEL LTD.  
5, BENTRICK STREET, KOLKATA (W.B.) KOLKATA WEST BENGAL

Owner : SHRI MARUTAYA BALAJI STEEL LTD.  
5, BENTRICK STREET, KOLKATA (W.B.) KOLKATA WEST BENGAL

Phone:

FAX :

Phone: AN FAX : NA

6. Date of approval of Mining :

Sl. No.	Letter no.	Date	Period	Type of Approved Document	
<b>From</b>			<b>To</b>		
1	No.MP/Satna/Limestone/ MPLN/G-36/03-04.	08/12/2003	2004-05	2008-09	Mining Plan under Rule 22 of MCR 1960
2	MP/Satna/Limestone/MP LN/Mod-06/09-10	24/09/2009	2009-10	2013-14	Modification in Approved Mining Plan under Rule 10 of MCDR 1988
3	MP/Satna/Limestone/M.S ch-82/13-14	01/4/07/2014	2014-15	2018-19	Scheme of Mining under Rule 12 of MCDR88
4	MP/Satna/Limestone/RM P-12/2020-21/3147	20/10/2020	2019-20	2023-24	Review of Mining Plan & PMCP under Rule 17(1) of MCR2016 & Rule 23 of MCDR2017
5	MP/Satna/Limestone/MP/ MOD-07/2021-22	30.07.2021	2021-22	2023-24	Modification if approved Mining Plan

I/4059/2023

## 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	30 holes	Not done	Violation pointed out under rule 11(1) of MCDR 2017
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not proposed	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	G2-23.22 ha, G3-57.03 ha & G4-5.325 ha to be explored in G1	Not done	Violation pointed out under rule 11(1) of MCDR 2017
1e	Balance reserve as on 01/04/20		111-4.89 Million Tonnes. 122-7.83 Million Tonnes.	Exploration is lagging against proposal. Violation pointed out under rule 11(1) of MCDR 2017

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	2722222N to 2722346N and 487775E to 487929E	N 2722790 -N 2722945 & E 4886613- E 486824	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Proposed	As per proposal	
2c	Stripping ratio or ore to OB ratio	1:0.18	1:0.24	
2d	Quantity of topsoil generation in m3	27160	15000	Violation pointed out under rule 11(1) of MCDR 2017
2e	Quantity of overburden generation in m3	94156	11911	Violation pointed out under rule 11(1) of MCDR 2017

I/4059/2023

2f General remarks  
of inspecting  
officers on  
development of  
pit w.r.t. type  
of deposit etc

---

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	01	01	
3b	Quantity of ROM mineral production proposed	150000	60926	Violation pointed out under rule 11(1) of MCDR 2017
3c	Recovery of sailable/usable mineral from ROM production	Entire ROM dispatch proposed	Entire ROM dispatched	
3d	Quantity of mineral reject generation	Nil	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	
3f	Quantity of sub grade mineral generation.	NA	NA	
3g	Grade of sub grade mineral generation	NA	NA	
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.	Not proposed	Nil	
3j	Provision of drilling and blasting in mineral benches	drilling & blasting proposed	drilling & blasting carried out	

I/4059/2023

3k	Provision of mining machineries in mineral benches proposed	mining machineries in mineral benches proposed	BACK HOE 1.000 CUM 1 Non Electrical Opencast TIPPER 16.000 CUM 3 Non Electrical Opencast OTHERS (NON-ELEC.) 1.200 3 Non Electrical Opencast BLAST HOST DRILL 100.000 MM 1 Non Electrical Opencast AIR COMPRESSOR 465.000 CUM/MN 1 Non Electrical Opencast WATER TANKER 5000.000 LITRE 1 Non Electrical Opencast
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM		Number of Benches- 01 ore of Average ht 3.5 m and 01 OB of Average ht 1.1 m
3m	Total area covered under excavation/pits	4.5 ha	2.1 ha
3n	Ore to OB ratio for the pit/mine during the year.	1:0.62	1:0.19
3o	Total area put in use under different heads at the end of year	7.61 ha	4.3897 ha
3p	Production of ROM mineral during the last five year period as applicable	2017-18=149500 2018-19=147576 2019-20=Nil 2020-21=144000 2021-22= 150000	2017-18= Nil 2018-19= Nil 2019-20=Nil 2020-21=Nil 2021-22= 60926
3q	General remarks of inspecting officers on method of mining etc.		

---

Solid Waste Management - Dumping:

---

Sl.No.	Item	Propasals	Actual work	Remarks
--------	------	-----------	-------------	---------

---

I/4059/2023

4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate dumping of topsoil & OB proposed	Separate dumping of topsoil & OB maintained
4b	Location of topsoil, OB and mineral reject dumps	Near south of Pit-1	Near south of Pit-1
4c	Number of dumps within lease area and outside of lease area	01 OB & 01 topsoil dumps within lease	01 OB & 01 topsoil dumps within lease
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	outside UPL	outside UPL
4e	Number of active and alive dumps.	02	02
4f	Number of dead dumps.	Nil	Nil
4g	Number of dumps established.	Nil	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	garland drains-217 m retaining walls-415 m	garland drains-350 m retaining walls-240 m
4i	Length of Retaining wall or garland drain all along dumps	garland drains-217 m retaining walls-415 m	garland drains-350 m retaining walls-240 m
4j	Number of settling ponds	Nil	Nil
4k	Specific comments of inspecting officer on waste dump management		

---

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.	Area not mature to start backfilling	NA	

I/4059/2023

5b	Area under backfilling of mined out area	Nil	NA	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	For stacking	stacking	
5d	Total area fully reclaimed and rehabilitated	NA	NA	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Area not mature to start backfilling & reclamation.

## 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	Submitted	
6b	Area available for rehabilitation (ha) .	Nil	Nil	
6c	afforestation done (ha) .	1 ha	0.65 ha	
6d	No. of saplings planted during the year	1000	650	
6e	Cumulative no .of plants	No proposal	1000 approx.	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	Nil	Nil	

I/4059/2023

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NA	NA
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	NA	NA
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NA	NA
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	Nil	NA
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	NA	NA
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	NA	NA
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	Nil	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	proposed	carried out

---

 Mineral Conservation:

---

Sl.No.	Item	Propasals	Actual work	Remarks
--------	------	-----------	-------------	---------

---



I/4059/2023

7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM dispatch proposed	ROM dispatch done	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	NOT PROPOSED	NA	
7c	Different grade of mineral sorted out at mines.	NA	NA	
7d	Any beneficiation process at mines	NOT PROPOSED	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			No Beneficiation process available at mines. ROM dispatch done.

## Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Topsoil stacking proposed.	Topsoil stacking done.	
8b	Concurrent use or storage of topsoil	storage of topsoil	storage of topsoil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumps for overburden proposed.	01 dump for overburden maintained.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposals	At present OB is not used for restoration.	

I/4059/2023

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposals	At present OB is not used for restoration.	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	1000 nos of plantation proposed	650 nos of plantation done	
8g	Survival rate	80%	70%	
8h	Water sprinkling on roads to control airborne dust	yes	carried out	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			The aesthetic beauty in and around mine area is moderate.

## Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	proposed	Returns submitted online.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	given	Agent Shri Anil Kumar Manager Shri Anil Kumar Mining Engineer in charge Shri Anil Kumar	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	given	Covered under current (O/C)Workings 1.900 Reclaimed/Rehabilitated 0.000 Used for waste disposal 0.210 Occupied by plant, buildings, residential, welfare buildings & roads 0.000 Other Purpose (Green belt) 0.650	

I/4059/2023

9d	Scrutiny of Annual return on afforestation	given	650 nos of plantation of 70 % survival done
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Nil	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	given	Sale value -Rs. 374 Ex.Mine price- Rs. 324.00. Production costs- Rs. 154.72.
9h	Scrutiny of Annual return on fixed assets	Nil	Nil
9k	Scrutiny of Annual return on mining machineries	Given	BACK HOE 1.000 CUM 1 Non Electrical Opencast TIPPER 16.000 CUM 3 Non Electrical Opencast OTHERS (NON-ELEC.) 1.200 3 Non Electrical Opencast BLAST HOST DRILL 100.000 MM 1 Non Electrical Opencast AIR COMPRESSOR 465.000 CUM/MN 1 Non Electrical Opencast WATER TANKER 5000.000 LITRE 1 Non Electrical Opencast

---

I/4059/2023

**Details of violations observed during current inspection and compliance position of violation pointed out**

Violation observed			Show couse position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on
MCDR17	Rule 11(1)	23-SEP-22			

**Date :****(ROBERT SIMON C)**

Indian Bureau of Mines