

I/8212/2023

MCDR inspection REPORT

Jabalpur regional office

Mine file No : MP/STN/LST-11

Mine code : 38MPR35290

- (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 : 14-DEC-22
- (v) Prev.inspection date : 19-MAR-20

PART-I : GENERAL INFORMATION

1. (a) Mine Name : KEMA KOTHAR (318.19 AC)
- (b) Registration NO. :
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address :  
State : MADHYA PRADESH  
District : SATNA  
Village :  
Taluka :  
Post office :  
Pin Code :  
FAX No. : NA  
E-mail : NA  
Phone : NA
- (f) Police Station :
- (g) First opening date :
- (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 :  
(b) Lease area :  
(c) Period of lease :  
(d) Date of Expiry :
4. Mineral worked : LIMESTONE Main

I/8212/2023

## 5. Name and Address of the

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

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

6. Date of approval of Mining : MP review under 17(1) MCR 2016 02-FEB-21  
Plan/Scheme of Mining

I/8212/2023

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	During the year 2020-21 no exploration proposals. During 2021-22, 9 boreholes were proposed	Exploration not carried out as proposed during the year 2021-22	Violation under Rule 11(1) of MCDR,2017 was issued to the lessee.
1b	Exploration over lease area for geological axis 1 or 2	During the year 2020-21 no exploration proposals. During 2021-22, 9 boreholes were proposed	Exploration not carried out as proposed during the year 2021-22	Violation under Rule 11(1) of MCDR,2017 was issued to the lessee.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	During the year 2020-21 no exploration proposals. During 2021-22, 9 boreholes were proposed	No exploration carried out as proposed	Violation under Rule 11(1) of MCDR,2017 was issued to the lessee.
1d	Balance area to be explored to bring Geological axis in 1 or 2	G-2 area of 5.794Ha was proposed for exploration in 2021-22	Proposed exploration not carried out in 2021-22	Violation under Rule 11(1) of MCDR,2017 was issued to the lessee.

I/8212/2023

1e	Balance reserve as on 01/04/20	Reserves in Million Tonnes Proved(111) - 0.985 Probable (122)-0.425 Resources in Million Tonnes Feasibility(211): 0.263 Pre-Feasibility(222): 0.139 Resources & reserves position as per ROMP approved 02/02/2021	Reserves in Million Tonnes Proved(111) -0.985 Probable (122)-0.425 Resources in Million Tonnes Feasibility(211): 0.263 Pre-Feasibility(222): 0.139 Resources & reserves position as per Annual Return for the year 2020-21	During the year 2020-21 very nominal production of 190 tonnes carried out
1f	General remarks of inspecting officers on geology, exploration etc	NA	NA	The occurrence of limestone is stratigraphically controlled by Nagod limestone formation of Bhandar group of Vindhyan super group. The strike of formation S80deg to N80deg and dip 1 to 3 degree .

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**Development :**

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	It was proposed the production from block-B towards south-west from 319 to 314mRL	Working not carried out as per the proposals	Violation of Rule 11(1) of MCDR,2017 pointed out & issued

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I/8212/2023

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Seperate benches proposed for top soil, OB and limestone	Working not carried out as per the proposals	Violation of Rule 11(1) of MCDR,2017 pointed out & issued
2c	Stripping ratio or ore to OB ratio	Proposed as 1:19.05 Tonne/CuM	Acheived as Nil	During the year 2020-21 very marginal production of 190 tonnes carried out
2d	Quantity of topsoil generation in m3	Proposed 5500	Nil	During the year 2020-21 very marginal production of 190 tonnes carried out
2e	Quantity of overburden generation in m3	Proposed as 72245 CuM	Acheived -Nil	Violation of Rule 11(1) of MCDR,2017 pointed out & issued
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	NA	NA	There is single working pit and during the year 2020-21 very nominal production of 198 tonnes of limestone carried out. Opencast method of mining proposed.

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**Exploitation:**

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single pit-1	Working carried out in Pit-1 but very marginal production of 198tonnes carried out	Violation of Rule 11(1) of MCDR,2017 pointed out & issued
3b	Quantity of ROM mineral production proposed	10200 Tonnes	198 Tonnes	Very marginal production carried against proposals hence violation of Rule 11(1) of MCDR,2017 pointed out & issued
3c	Recovery of sailable/usable mineral from ROM production	Proposed as 80%	NA, Very marginal production of 198 MT carried against proposals	violation of Rule 11(1) of MCDR,2017 pointed out & issued

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I/8212/2023

3d	Quantity of mineral reject generation	No Proposals	Nil	Nil
3e	Grade of mineral rejects generation and threshold value declared.	No Proposals	Nil	No mineral rejects generated
3f	Quantity of sub grade mineral generation.	No Proposals	Nil	Nil
3g	Grade of sub grade mineral generation	No Proposals	Nil	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	Manual	Nil
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No Proposals	Nil	Nil
3j	Provision of drilling and blasting in mineral benches	Drilling blasting proposed	Not carried out	Very marginal production of 198MT carried out during the year 2020-21

I/8212/2023

3k	Provision of mining machineries in mineral benches	L & TPC-200/Hyd Excavator, 1.20Cum capacity TATA Dumper model 2515, 27 T capacity Tractor mounted Air Compressor Jack Hammer with Drill rods Mahindra Tractor with Water Tank on trolley Water pump with Diesel engine	L & TPC-200/Hyd Excavator, 1.20Cum capacity TATA Dumper model 2515, 27 T capacity Tractor mounted Air Compressor Jack Hammer with Drill rods Mahindra Tractor with Water Tank on trolley Water pump with Diesel engine	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height of 3m in OB and 6m proposed in limestone	Very marginal production of 198MT carried out during the year 2020-21, hence height of benches couldnot be acertained	Nil
3m	Total area covered under excavation/pits	7.0 Ha under excavation pit	7.0 Ha under excavation pit	Very marginal production of 198MT carried out during the year 2020-21
3n	Ore to OB ratio for the pit/mine during the year.	Proposed as 1:19.05 Tonne/CuM	Proposed as -Nil	No overburden generated during the year
3o	Total area put in use under different heads at the end of year	As per the previous approved ROMP dtd 02/02/2021 Pits-7.0Ha Waste Dump-0.20Ha Road-0.50Ha Site services-0.15Ha	As per the Annual return for the year 2020-21 Pits-7.0Ha Waste Dump-3.50Ha Road-0.50Ha Site services-0.15Ha	Very marginal production of 198MT carried out during the year 2020-21

I/8212/2023

3p	Production of ROM mineral during the last five year period as applicable	2016-17-: 127400 MT 2017-18-: 120400 MT 2018-19-: 149800 MT 2019-20-: NA 2020-21-: 10200 MT	2016-17-: Nil 2017-18-: 142 MT 2018-19-: 300 MT 2019-20-: Nil 2020-21-: 150 MT	Very marginal production carried out during the last 5 years period.
3q	General remarks of inspecting officers on method of mining etc.	NA	NA	Opencast Mechanised method of mining by using Excavator /JCB & dumper combination with shallow drilling & blasting using jack hammer.

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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)	Separate dumping of topsoil, OB proposed	Dumping as per proposals not carried out as no OB generated during the year 2021-22	Very marginal production of 150 MT carried out during the year 2020-21
4b	Location of topsoil, OB and mineral reject dumps	Dumping was of OB proposed for bund formation & road maintance	Working not carried out as no OB generated during the year 2021-22	Very marginal production of 150 MT carried out during the year 2020-21
4c	Number of dumps within lease area and outside of lease area	No OB dumps in mining lease area & outside ML area	No OB dumps in mining lease area & outside ML area	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No OB dumps in mining lease area & outside ML area	No OB dumps in mining lease area & outside ML area	Nil
4e	Number of active and alive dumps.	No active OB dumps in mining lease area	No active OB dumps in mining lease area	
4f	Number of dead dumps.	No dead dumps in ML area	No dead dumps in ML area	
4g	Number of dumps established.	No Proposals	Nil	



1/8212/2023

4h	Whether Retaining wall or garland drain all along dumps are there.	No OB dumps in ML area	No OB dumps in ML area	
4i	Length of Retaining wall or garland drain all along dumps	No OB dumps in ML area	No OB dumps in ML area	
4j	Number of settling ponds	No Proposals	Nil	
4k	Specific comments of inspecting officer on waste dump management	NA	NA	Very marginal production of limestone carried out during the year 2020-21 and no OB generated during the year

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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.	No Proposals	No mining pits have been matured for backfilling	Very marginal production of limestone were carried out during last 5 years
5b	Area under backfilling of mined out area	About 5.70 Ha area backfilled so far	About 5.70 Ha area backfilled so far	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Top soil proposed for bund formation	Not done	Very marginal production of 150tonnes carried out during 2020-21
5d	Total area fully reclaimed and rehabilitated	About 5.70 Ha area fully reclaimed & rehabilitated	About 5.70 Ha area fully reclaimed & rehabilitated	

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I/8212/2023

5e	General remarks of inspecting officers on backfilling and reclamation etc.	NA	NA	Presently scope of backfilling doesnot exists because none of the pit has been matured for 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).	To be submitted before 1st July of every year	Not submitted within time limit as per the provisions of Rule 26 of MCDR,2018	Violation of Rule 26(2) of MCDR, 2017 pointed out & issued to the lessee
6b	Area available for rehabilitation (ha) .	No Proposals	Nil	Nil
6c	afforestation done (ha).	100 saplings proposed during 2020-21	100 saplings planted during 2020-21	Survival rate is about 80%
6d	No. of saplings planted during the year	100 saplings proposed during 2020-21	100 saplings planted during 2020-21	Survival rate is about 80%
6e	Cumulative no .of plants	NA	NA	No details available or furnished in approved document
6f	Any other method of rehabilitation	No Proposals	Nil	Nil
6g	Cost incurred on watch and care during the year	No Proposals	Nil	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	Abot 5.40 Ha proposed for backfilling	No done	Very marginal production of 150 MT carried out during 2020-21 & no OB generated during the year

I/8212/2023

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Abot 5.40 Ha proposed for backfilling	No done	Very marginal production of 150 MT carried out during 2020-21 & no OB generated during the year
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No Proposals	Nil	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No Proposals	Nil	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No Proposals	Nil	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No Proposals	Nil	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No Proposals	Nil	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No Proposals	Nil	Nil

1/8212/2023

6p	Compliance of environmental monitoring (core zone and buffer zone)	Periodical Air, Water, Noise monitoring Proposed	Carried out as per the proposals	Analysis reports were provided
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	NA	NA	Very marginal production of limestone carried out last 5 years, hence scope of PMCP doesnot exist. Overburden generation also not occurred during the year 2020-21

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#### Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Total ROM production of 10200 MT proposed during the year 2020-21	Only 190 MT of limestone production carried out	No dispatches of limestone occurred during the year 2020-21
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No Proposals	Nil	Entire recovered ROM proposed for dispatches
7c	Different grade of mineral sorted out at mines.	No Proposals	Nil	Entire recovered ROM proposed for dispatches
7d	Any beneficiation process at mines	No Proposals	Nil	Entire recovered ROM proposed for dispatches

I/8212/2023

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	NA	NA	Entire recovered ROM proposed for dispatches for the use in cement manufacturing. Very marginal production carried out in last 5 years. hence scope of mineral conservation couldnot be accertained.
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**Environment:**

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Concurrent use for bund formation proposed	Not done	Very marginal production of 190MT acheived during the year 2020-21
8b	Concurrent use or storage of topsoil	Concurrent use for bund formation proposed	Nil	Very marginal production of 190MT acheived during the year 2020-21
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Concurrent use of OB for bund formation and road maintanance propose	Nil	No overburden generated during the year 2020-21
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No Proposals	Nil	Nil

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I/8212/2023

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No Proposals	Nil	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	100 Saplings proposed to be planted during the year 2020-21	100 Saplings planted during the year 2020-21	Nil
8g	Survival rate	Proposed 80%	Acheived about 80%	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling is proposed by water tanker	Water sprinkling is done by water tanker	Water tanker of 5KL capacity is provided for the purpose
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. Hence, it was instructed to propose at least 200 sapling/year in next ROMP period.

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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.submitted upto- November-2022 A.R. submitted upto- 2020-21	Annual Return for the year 2020-21 submitted within time limit & monthly returns also being submitted within given time frame.	Status checked online

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I/8212/2023

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	bb
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	
9d	Scrutiny of Annual return on afforestation	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	
9h	Scrutiny of Annual return on fixed assets	
9k	Scrutiny of Annual return on mining machineries	gg

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I/8212/2023

**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)	14-FEB-23			
MCDR17	Rule 26(2)	14-FEB-23			
MCDR17	Rule 27(1)	14-FEB-23			
MCDR17	Rule 34(1)	14-FEB-23			

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

Indian Bureau of Mines