

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

Review and updation of Mining Plan REPORT

Jabalpur regional office

Mine file No : MP/KATNI/LST-227

Mine code : 38MPR47009

- (i) Name of the Inspecting : **SQ23**) **SANDEEP KUMAR SINGH**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine :
Official with
Designation
- (iv) Date of Inspection : 14-DEC-21
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **MARWA (GAIRTALAI/JARARODA)**
- (b) **Registration NO.** :
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address
State : MADHYA PRADESH
District : KATNI
Village : MARWA, GAIRTALAI, JARA
Taluka : KATNI
Post office : BARHI
Pin Code : 483770
FAX No. : N. A.
E-mail : N. A.
Phone : N. A.
- (f) Police Station :
- (g) First opening date : 10-JAN-92
- (h) Weekly day of rest :
2. Address for : STEEL AUTHORITY OF INDIA LTD.
correspondance : P.O. BARHI, DIST. KATNI (M.P.)
3. (a) Lease Number : MPR0193
(b) Lease area : 944.89
(c) Period of lease : 50
(d) Date of Expiry : 09-JUN-21
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : Steel authority of India Ltd.
 G. OJHA, DIR(PER & I/C RMD)
 LODHI RD, ISPAT BHAWAN
 NEWDELHI-110003 KATNI
 MADHYA PRADESH
 Phone:07626-273211
 FAX :07626-273201

Owner : STEEL AUTHORITY OF INDIA LTD.
 AT & P.O. BARHI, DIST.KATNI
 M.P KATNI MADHYA PRADESH
 Phone: 07626-273211/25
 FAX : 07626-273201

6. Date of approval of Mining	:	Renewal under rule 22 MCR1960	31-DEC-91
Plan/Scheme of Mining		Renewal under rule 22 MCR1960	02-SEP-03
		Modif.of approved Mining Plan	30-OCT-04
		PMCP under 23B(2) for Existing	01-JUL-05
		Mining Scheme rule 12 MCDR1988	13-APR-10
		Mining Scheme rule 12 MCDR1988	28-NOV-14
		MP review under 17(1) MCR 2016	24-MAR-17
		MP modif under 17(3) MCR 2016	05-NOV-18

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	no proposal	nil	
1b	Exploration over lease area for geological axis 1 or 2	no proposal	G2	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	no proposal	na	
1d	Balance area to be explored to bring Geological axis in 1 or 2	no proposal		
1e	Balance reserve as on 01/04/20		4.8 Million Te	
1f	General remarks of inspecting officers on geology, exploration etc			The exploratory drilling work was done during 1963-1965 which covered complete lease area. After that High level committee of Govt. of India decided Left Bank Lease will be the part of Bansagar Reservoir, thus, no further exploratory drilling could be done.no work was done in last 5 years of plan period.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	not proposed	NA	

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	not proposed	na	
2c	Stripping ratio or ore to OB ratio	1:0	na	no work done.no ob or topsoil.
2d	Quantity of topsoil generation in m3	not proposed	na	
2e	Quantity of overburden generation in m3	not proposed	na	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			In the proposed mining area there are no top soil and OB.as per plan.no proposal to remove ob or waste.no work done was last 5 years as area is submerged in water.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	01	nil	
3b	Quantity of ROM mineral production proposed	Limestone 59995 Te I.B. (cavity filled clay) 6856 Te	nil	
3c	Recovery of sailable/usable mineral from ROM production	59995 Te	nil	I.B. (cavity filled clay) 6856 Te
3d	Quantity of mineral reject generation	nil	na	

3e	Grade of mineral rejects generation and threshold value declared.	not proposed	nil	
3f	Quantity of sub grade mineral generation.	NP	NA	
3g	Grade of sub grade mineral generation	NOT proposed NIL	nil	
3h	Manual / Mechanised method adopted for segregating from ROM	mechanised	not done	no work in last 5 years
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	planned	nil	
3k	Provision of mining machineries in mineral benches	planned	nil	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	3mtr	nil	bench ht suitable
3m	Total area covered under excavation/pits	9142m2	nil	no work done
3n	Ore to OB ratio for the pit/mine during the year.	1:0	nil	no over burden.no work done
3o	Total area put in use under different heads at the end of year	2342m2	nil	

3p	Production of ROM mineral during the last five year period as applicable	2017-18 59998	2017-18 424	2018-19 59997	2018-19 1346	2019-20 59992	2019-20 Nil	2020-21 59995	2020-21 Nil	2021-22 59990	2021-22 Nil	Less mining is due to submergence during proposed mining period. as during inspection area was submerged, pit dumpe etc were not visisble.last 3 years no work is done.
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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)	for IB	nil	
4b	Location of topsoil, OB and mineral reject dumps	IB,western side of lease	nil	
4c	Number of dumps within lease area and outside of lease area	05 inside	nil	no work done in last 3 years.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	outside	nil	
4f	Number of dead dumps.	nil	nil	
4g	Number of dumps established.	05	nil	no work done.area is submerged.
4h	Whether Retaining wall or garland drain all along dumps are there.	na	nil	
4i	Length of Retaining wall or garland drain all along dumps	na	nil	
4j	Number of settling ponds	not planned	nil	

4k	Specific comments of inspecting officer on waste dump management			*During peak of reservoir the water level reaches up to 341.69 mRL. The surface level remains submerged for most of the period in a year under water by approximately 3 m depth. during inspection area submerged.surface features could not be seen,working ,dumps etc.
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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 proposal	na	
5b	Area under backfilling of mined out area	no proposal	na	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	no proposal	na	
5d	Total area fully reclaimed and rehabilitated	nil	nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			no work done in last 5 years.no ob available.no proposals.area under water.

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).		nil	mines was not in operation in 20-21
6b	Area available for rehabilitation (ha) .	no proposal for worked/mined out benches	na	
6c	afforestation done (ha).	no proposal for worked/mined out benches	na	
6d	No. of saplings planted during the year	no proposal for worked/mined out benches	nil	
6e	Cumulative no .of plants	no proposal for worked/mined out benches	na	
6g	Cost incurred on watch and care during the year	no proposal for worked/mined out benches	na	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	no proposal for backfilling	na	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	no proposal for backfilling	na	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	no proposal for reservoir	na	

6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	no proposal	nil	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	no proposal	no proposal	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	no proposal	na	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	no proposal	na	
6p	Compliance of environmental monitoring (core zone and buffer zone)	yes	nil	mines was not in operation
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			mines is not in operation.it is submerged in water for most part of year.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM	not done	

7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	mechanised	not done	
7c	Different grade of mineral sorted out at mines.	np	na	
7d	Any beneficiation process at mines .	not planned	nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			planned to removed interburden.mines did not operate due to sumergance of lease area.

Environment :

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	not planned		no topsoil and OB
8b	Concurrent use or storage of topsoil	no proposal	na	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	no proposal	na	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	no proposal	na	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	no proposal	na	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	no proposal	na	
8g	Survival rate	no proposal	na	
8h	Water sprinkling on roads to control airborne dust	proposed	not done	mines not working
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			the area is submerged under water of bansagar reservoir.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		submitted	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	geologist: satish kumar tiwari Mining engineer: Abahy kumar singh		
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	pit 18.4 hectare ,dump6.6688 road-3.3910	given	

9d	Scrutiny of Annual return on afforestation	nil	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	nil	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	nil	no production despatch in year.
9k	Scrutiny of Annual return on mining machineries	nil	mines not in operation.

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

Date :

(SANDEEP KUMAR SINGH)

Indian Bureau of Mines