

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

**MCDR inspection REPORT
Ranchi regional office**

Mine file No : JHK/GAR/LST/361/RRO

Mine code : 38JHK06002

- (i) Name of the Inspecting : **K03**) **G. S. KANNAN**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Shri. S K Singh, GM Mines
Official with
Designation
- (iv) Date of Inspection : 16/03/2020
- (v) Prev.inspection date : 06/03/2014

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **SARAIYA**
- (b) **Registration NO.** : **IBM/5662/2011**
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address :
State : JHARKHAND
District : GARWAH
Village :
Taluka :
Post office :
Pin Code :
FAX No. : 06563-233316
E-mail : bnpfinance/arvind.kumar23@
Phone : 06563-233306
- (f) Police Station : BHAWNATHPUR TOWNSHIP
- (g) First opening date : 15/02/1970
- (h) Weekly day of rest : SUN
2. Address for : M/S STEEL AUTHORITY OF INDIA LTD. AT-BHAWANATHPU
correspondance P.O.- BHAWNATHPUR TOWNSHIP,
DISTT.- GARHWA , JHARKHAND, PIN - 822129
3. (a) Lease Number : BHR0008
- (b) Lease area : 275
- (c) Period of lease :
- (d) Date of Expiry : 31/03/2020
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : M/S STEEL AUTHORITY OF INDIA LTD.(RMD)
 AT- BHAWANATHPUR TOWNSHIP
 P.O. - BHAWANATHPUR GARWAH
 JHARKHAND
 Phone:033-2282-2316/0462/3385
 FAX :+91-33-2282-0422/5630

Owner : Vivek gupta
 Director. SAIL, Lodi Road,
 New Delhi-110003
 DALTANGANJ BIHAR
 Phone:
 FAX :

Agent : S.K. SINGH
 BHAWNATH PUR GROUP OF MINES
 DIST.- GARHWA JHARKHAND
 GARWAH JHARKHAND
 Phone: 7999603213
 FAX :

Geologist

Name : M R Soliria, Full Time
 Qualification : M Sc (Geology)
 Appointment/ : 28/12/2016
 Termination date

Manager

Name : BHAGABAN PANIGRAHI
 Qualification : AMIE
 Appointment/ :
 Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	09/04/2007
Plan/Scheme of Mining		Renewal under rule 24 MCR1960	03/08/2011
		Mining Scheme rule 12 MCDR1988	11/10/2012
		MP review under 17(1) MCR 2016	27/02/2017
		FMCP under 23C(1)	09/05/2019

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No Borehole has been proposed in approved FMCP.	No Borehole has been drilled	SAIL has drilled 158 boreholes for total meterage of 5096.84 during 1962 to 1991 to assess the quantity & quality of Limestone.
1b	Exploration over lease area for geological axis 1 or 2	No Borehole has been proposed in approved FMCP.	No Borehole has been drilled	Based on existing drilled boreholes, 238.653 hect areas are considered as G-1 and 36.347 hect as G-2.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Own drilling and/ or Contract drilling machines were used for Exploration in the past.	SAIL has drilled 158 boreholes for total meterage of 5096.84 during 1962 to 1991 to assess the quantity & quality of Limestone.	7 Lakhs has been spend for exploration from 1962 to 1991
1d	Balance area to be explored to bring Geological axis in 1 or 2	No Borehole has been proposed in approved FMCP.	No Borehole has been drilled	Exploration was carried out at 100m X 200m grid interval. 275.00 hectares covered under exploration.
1e	Balance reserve as on 01/04/20	Reserves & Resources as on 01.04.2019 Proved Mineral Reserves (111) = 10000 tons Probable Mineral Reserves (121) = 1550000 tons Pre-Feasibility Mineral Resources (221) = 6760000 Tons Measured Mineral Resources (331) = 410000 Tons	Reserves & Resources as on 01.04.2019 Proved Mineral Reserves (111) = 10000 tons Probable Mineral Reserves (121) = 1550000 tons Pre-Feasibility Mineral Resources (221) = 6760000 Tons Measured Mineral Resources (331) = 410000 Tons	Hence there is no mining activity; R & R has not been changed. Mine was non-operational from 2013 due to want statutory clearances. Entire R & R is under Forest area.

1f	General remarks of inspecting officers on geology, exploration etc	Limestone deposit in Bhawanathpur area belongs to Kajrahat limestone of lower semri series.	Limestone are compact, fine grained and steel grey in colour. They show slight weathering near the surface.
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	No Proposal	Nil	Mine is not Working, for want of Statuary Clearances.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No Proposal	Nil	Mine is not Working, for want of Statuary Clearances.
2c	Stripping ratio or ore to OB ratio	No Proposal	Nil	Mine is not Working, for want of Statuary Clearances.
2d	Quantity of topsoil generation in m3	No Proposal	Nil	Mine is not Working, for want of Statuary Clearances.
2e	Quantity of overburden generation in m3	No Proposal	Nil	Mine is not Working, for want of Statuary Clearances.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Mine is not Working, for want of Statuary Clearances.	Mine is submitted FMCP and valid upto 31.03.2020.	Mine was non-operational from 2013 due to want statuary clearances. FMCP and Mining Lease is valid upto 31.03.2020

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	No Proposal	Nil	Mine is not Working, for want of Statuary Clearances.

3b	Quantity of ROM mineral production proposed	No Proposal	Nil	Mine is not Working, for want of Statuary Clearances.
3c	Recovery of sailable/usable mineral from ROM production	No Proposal	Nil	Mine is not Working, for want of Statuary Clearances.
3d	Quantity of mineral reject generation	No Proposal	Nil	Mine is not Working, for want of Statuary Clearances.
3e	Grade of mineral rejects generation and threshold value declared.	No Proposal	Nil	Mine is not Working, for want of Statuary Clearances.
3f	Quantity of sub grade mineral generation.	No Proposal	Nil	Mine is not Working, for want of Statuary Clearances.
3g	Grade of sub grade mineral generation	No Proposal	Nil	Mine is not Working, for want of Statuary Clearances.
3h	Manual / Mechanised method adopted for segregating from ROM	No Proposal	Nil	Mine is not Working, for want of Statuary Clearances.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No Proposal	Nil	Mine is not Working, for want of Statuary Clearances.
3j	Provision of drilling and blasting in mineral benches	No Proposal	Nil	Mine is not Working, for want of Statuary Clearances.
3k	Provision of mining machineries in mineral benches	No Proposal	Nil	Mine is not Working, for want of Statuary Clearances.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	No Proposal	Nil	Mine is not Working, for want of Statuary Clearances.

3m	Total area covered under excavation/pits	No Proposal	24.48 hect areas are under Pit only. This pits are excavated before 2013	
3n	Ore to OB ratio for the pit/mine during the year.	No Proposal	Nil	Mine is not Working, for want of Statuary Clearances.
3o	Total area put in use under different heads at the end of year	Land use Pattern as on 01.04.2019. Mines = 24.48 hect Dump = 1.57 hect Road = 3.76 hect	Land use Pattern as on 01.04.2019. Mines = 24.48 hect Dump = 1.57 hect Road = 3.76 hect	There are no Changes in land use Pattern from 2013 because of Non-Working.
3p	Production of ROM mineral during the last five year period as applicable	No Proposal	Nil	From 2013 to till date, the Mine was not working due to want of statutory order.
3q	General remarks of inspecting officers on method of mining etc.	Mine is not Working, from 2013 for want of Statuary Clearances.	FMCP is valid upto 31.03.2020	Mining Lease is expiring on 31.03.2020.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No Proposal	Nil	From 2013 to till date, the Mine was not working due to want of statutory order.
4b	Location of topsoil, OB and mineral reject dumps	No Proposal	Nil	From 2013 to till date, the Mine was not working due to want of statutory order.
4c	Number of dumps within lease area and outside of lease area	No Proposal	Nil	From 2013 to till date, the Mine was not working due to want of statutory order.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No Proposal	Nil	From 2013 to till date, the Mine was not working due to want of statutory order.

4e	Number of active and alive dumps.	No Proposal	Nil	There is no active dump within lease area for waste dumping.
4f	Number of dead dumps.	No Proposal	Nil	From 2013 to till date, the Mine was not working due to want of statutory order.
4g	Number of dumps established.	No Proposal	Nil	Mine is not Working, for want of Statuary Clearances.
4h	Whether Retaining wall or garland drain all along dumps are there.	Fencing has been proposed during 2019-2020.	As per proposal Fencing has constructed during 2019-2020.	Mine is not Working, from 2013, for want of Statuary Clearances.
4i	Length of Retaining wall or garland drain all along dumps	Proposed Fencing around open pit of 3500m during 2019-2020.	As per proposal 3500m of fencing around open pit has been constructed during 2019-2020.	Mine is not Working, from 2013, for want of Statuary Clearances.
4j	Number of settling ponds	No Proposal	Nil	Mine is not Working, from 2013, for want of Statuary Clearances.
4k	Specific comments of inspecting officer on waste dump management	Mine is not Working, from 2013 for want of Statuary Clearances.	During 2018-2019 there is no valid plan. FMCP is approved for 2019-2020 and valid upto 31.03.2020	Mining Lease is expiring on 31.03.2020.

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 Proposal	Nil	Mine is not Working, from 2013 for want of Statuary Clearances.
5b	Area under backfilling of mined out area	No Proposal	Nil	Mine is not Working, from 2013 for want of Statuary Clearances.

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No Proposal	Nil	Mine is not Working, from 2013 for want of Statuary Clearances.
5d	Total area fully reclaimed and rehabilitated	No Proposal	Nil	Mine is not Working, from 2013 for want of Statuary Clearances.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Mine is not Working, from 2013 for want of Statuary Clearances.	FMCP is valid upto 31.03.2020	Mining Lease is expiring on 31.03.2020.

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).	It should be on or before 1st July every year.	Submitted	
6b	Area available for rehabilitation (ha) .	3.92 hectares proposed for 2019-2020	Achieved 3.92 hectares during 2019-2020.	
6c	afforestation done (ha).	3.92 hect proposed for 2019-2020	Achieved 3.92 hect during 2019-2020.	
6d	No. of saplings planted during the year	1500 saplings proposed for 2019-2020	1500 saplings has planted during 2019-2020.	
6e	Cumulative no .of plants	7500 saplings	1800 saplings has planted during 2012-2020	Mine is not Working, from 2013 for want of Statuary Clearances.
6f	Any other method of rehabilitation	Nil	Nil	
6g	Cost incurred on watch and care during the year	1.0 Lakh	1.0 Lakh	

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Nil	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Nil	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	Nil	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Nil	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Nil	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Nil	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Nil	Nil
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)	Bi-Annually Survey	Environment monitoring is carried out through own as well as private agency.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Mine is not Working, from 2013 for want of Statuary Clearances.	FMCP is valid upto 31.03.2020	Mining Lease is expiring on 31.03.2020.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No Proposal	Nil	Mine is not Working, from 2013 for want of Statuary Clearances.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No Proposal	Nil	Mine is not Working, from 2013 for want of Statuary Clearances.
7c	Different grade of mineral sorted out at mines.	No Proposal	Nil	Mine is not Working, from 2013 for want of Statuary Clearances.
7d	Any beneficiation process at mines .	No Proposal	Nil	Mine is not Working, from 2013 for want of Statuary Clearances.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Mine is not Working, from 2013 for want of Statuary Clearances.	FMCP is valid upto 31.03.2020	Mining Lease is expiring on 31.03.2020.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	No Proposal	Nil	Mine is not Working, from 2013 for want of Statuary Clearances.
8b	Concurrent use or storage of topsoil	No Proposal	Nil	Mine is not Working, from 2013 for want of Statuary Clearances.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No Proposal	Nil	Mine is not Working, from 2013 for want of Statuary Clearances.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No Proposal	Nil	Mine is not Working, from 2013 for want of Statuary Clearances.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No Proposal	Nil	Mine is not Working, from 2013 for want of Statuary Clearances.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	No Proposal	Nil	Mine is not Working, from 2013 for want of Statuary Clearances.
8g	Survival rate	No Proposal	Nil	Mine is not Working, from 2013 for want of Statuary Clearances.
8h	Water sprinkling on roads to control airborne dust	No Proposal	Water sprinkling on road is observed during the inspection.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Scanty vegetation, bushes are observed in lease area	Surrounding area beyond lease area is greenery. The area is hilly terrain.	Mining Lease is expiring on 31.03.2020.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	MR & AR are Submitted manually	Mining Lease is expiring on 31.03.2020.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Appointment of Nil Mining Engineer, Geologist is shown as full time.		Mining Lease is expiring on 31.03.2020.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Land use Pattern as on 01.04.2019. Mines = 24.48 hect Dump = 1.57 hect Road = 3.76 hect	Landuse Pattern is filled as per approved Final Mine Closure Plan	
9d	Scrutiny of Annual return on afforestation	No Proposal. During 2018-2019 there is no valid plan.	FMCP is approved for 2019-2020 and valid upto 31.03.2020	Mining Lease is expiring on 31.03.2020.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	No Proposal. During 2018-2019 there is no valid plan.	FMCP is approved for 2019-2020 and valid upto 31.03.2020.	Mining Lease is expiring on 31.03.2020.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	No Proposal. During 2018-2019 there is no valid plan.	FMCP is approved for 2019-2020 and valid upto 31.03.2020.	Mining Lease is expiring on 31.03.2020.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex.Mine Price & Production cost is Zero	Due to Non-Working, there is no ROM, hence Ex.Mine Price & Production cost is Zero.	Mining Lease is expiring on 31.03.2020.
9h	Scrutiny of Annual return on fixed assets	Fixed Assets is given	xed Assets is filled	Mining Lease is expiring on 31.03.2020.
9k	Scrutiny of Annual return on mining machineries	Machineries detail not given	Due to Non-Working, there is no availability of machineries in field.	Mining Lease is expiring on 31.03.2020.

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 :

(G. S. KANNAN)

Indian Bureau of Mines