

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

**Review and updation of Mining Plan REPORT**

**Jabalpur regional office**

**Mine file No :** MP/STN/LST-27

**Mine code :** 38MPR35288

- (i) Name of the Inspecting : **SQ05** ) **DEEPAK SHARMA**  
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Sanjay S. Bhagel QP (Mining Engineer)  
Official with  
Designation
- (iv) Date of Inspection : 24-FEB-21
- (v) Prev.inspection date :

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **ISPAT NO 2 (1033.99 HA)**
- (b) **Registration NO.** :
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address  
State : MADHYA PRADESH  
District : SATNA  
Village : RAMASTHAN  
Taluka : RAGHURAJNAGAR  
Post office : BABUPUR  
Pin Code : 485112  
FAX No. : N. A.  
E-mail : N. A.  
Phone : N. A.
- (f) Police Station :
- (g) First opening date :
- (h) Weekly day of rest : SUN
2. Address for : STEEL AUTHORITY OF INDIA LTD.  
correspondance
3. (a) Lease Number : MPR0467  
(b) Lease area : 1033.94  
(c) Period of lease :  
(d) Date of Expiry : 03-JAN-27
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.  
Raw Meterial Div. Bokaro  
Zone, Bokaro Steel City  
BOKARO JHARKHAND  
Phone: N. A.  
FAX : N. A.

6. Date of approval of Mining	:	Modif.of approved Mining Plan	26-MAR-09
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	29-JUN-11

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	it was proposed to drill 65 nos of boreholes in the grid 200X200 m	No exploration work carried out	violation for deviation issued
1b	Exploration over lease area for geological axis 1 or 2	it was proposed to upgrade ML area upto G1 level	Exploration pedign ML area not explored upto G1 level	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not Furnished	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2	it was proposed to explored area upto G1	exploration work not carried out as per proposal	
1e	Balance reserve as on 01/04/20	as on 01.07.2017 111-59.026 121-0 221 & 222-53.96 331-1.446	as on 01.04.2020 111-55.982 121-0 221 & 222-53.96 331-1.446	
1f	General remarks of inspecting officers on geology, exploration etc			Limestone of the area belongs to vindhyan super group of rocks, dark to light grey in colour, fine grained hard and compact in nature

## Development :

Sl.No.	Item	Propasals	Actual work	Remarks
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2a	Location of development w.r.t. lease area	it was proposed to do development work in the southern and eastern direction of the pit	development was not as per proposal, lacking of ammount of development	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	proposed	OB 1-2.0 Limestone 6-7 meter	
2c	Stripping ratio or ore to OB ratio	1:0.36	1:0.86	
2d	Quantity of topsoil generation in m3	Nil-0	Nil-0	
2e	Quantity of overburden generation in m3	Nil-0	Nil-0	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Development was proposed to done in southern and eastern direction cintinuation to old pit

#### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	
3b	Quantity of ROM mineral production proposed	232000 tonnes	949687.84 tonnes	
3c	Recovery of sailable/usable mineral from ROM production	90 %	90 %, 10 % loss due to voids	
3d	Quantity of mineral reject generation	NIL-0	NIL-0	

3e	Grade of mineral rejects generation and threshold value declared.	Not Proposed	NIL-0
3f	Quantity of sub grade mineral generation.	Not Proposed	Nil-0
3g	Grade of sub grade mineral generation	Not Proposed	Nil-0
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanical Method	Mechanical Screening method adopted
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not Proposed	NA
3k	Provision of mining machineries in mineral benches	Proposed	HEMM is being used in mineral benches
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Proposed	Suitable
3m	Total area covered under excavation/pits	6.00 hect	3.65 hect
3n	Ore to OB ratio for the pit/mine during the year.	1:0.36	1:0.86
3o	Total area put in use under different heads at the end of year	81.032 hect	56.021 hect

3p	Production of ROM mineral during the last five year period as applicable	2016-17=80000 2017-18=928000 2018-19=928000 2019-20=928000	2016-17=224672.42 2017-18=469994.49 2018-19=866816.18 2019-20=758441.04
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3q	General remarks of inspecting officers on method of mining etc.	HEMM is being used in mineral benches
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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)	Proposed	Separate dumping of Waste and Mineral is being done as per proposal	
4b	Location of topsoil, OB and mineral reject dumps	OB dumps proposed in southern part of the Pit	as per prposal	
4c	Number of dumps within lease area and outside of lease area	two dumps within the ML	two dumps within the ML	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Out side the UPL	Outside the UPL	
4e	Number of active and alive dumps.	two active dumps	two active dumps	
4f	Number of dead dumps.	Nil-0	Nil-0	
4g	Number of dumps established.	Not Proposed	Nil-0	
4h	Whether Retaining wall or garland drain all along dumps are there.	proposed	retaining wall prepared	
4i	Length of Retaining wall or garland drain all along dumps	Not Proposed	250X1X1 m	

4j	Number of settling ponds	one	one	
4k	Specific comments of inspecting officer on waste dump management			separate dumps for teh waste and mineral is done as per proposal

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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.	Full extraction of mineral proposed	full extraction is under progress tehrefore no backfilling done yet	
5b	Area under backfilling of mined out area	Not Proposed	Nil-0	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Proposed	as per proposal	
5d	Total area fully reclaimed and rehabilitated	Not Proposed	Nil-0	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			there is an second band of limestone, which is confirmed by adjacent ML holder through exploration therefore lease holder advised to expored the bottom of the area and second band of limestone before commencing backfilling.

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Progressive Mine Clousre Plan:

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Sl.No.	Item	Propasals	Actual work	Remarks
Mineral Conservation:				
Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM dispatch	ROM is being dispatched to the captive cement plant	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical method proposed (Screening)	Mechanical Screening method adopted to segregate ROM and Waste	
7c	Different grade of mineral sorted out at mines.	Not Proposed	NA	
7d	Any beneficiation process at mines .	Not Proposed	NA	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			ROM is being dispatched to the captive cement plant

#### Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Proposed	as per proposal top soil is being used in planttaion	
8b	Concurrent use or storage of topsoil	Proposed	as per proposal top soil is being used for plantation	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposed	Separate dumping done	



8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	not Proposed	NA	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Proposed	as per proposal	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Proposed	as per proposal	
8g	Survival rate	90%	75-80%	
8h	Water sprinkling on roads to control airborne dust	Proposed	As per proposal	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Needs improvements

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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Submitted	AR & MR Submitted	

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9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Furnished	Mining Engineer in charge SANJAY SINGH BAGHEL Geologist in charge Subhasis Pattanayak
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Furnished	Furnished
9d	Scrutiny of Annual return on afforestation	Furnished	Furnished
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Furnished	Furnished
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Furnished	Furnished
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Furnished	Ex Mine Price INR 237.76 Cost of production INR 237.76
9h	Scrutiny of Annual return on fixed assets	Furnished	Value of Fixed Assets INR 30200000 (in respect of the mine, beneficiation plant, mine work-shop, power and water installation)

9k	Scrutiny of Annual return on mining machineries	Furnished	<p>Type and aggregate Horse Power of Machinery: Give the following information for the types of machinery in use such as hoist, fans, drills, loaders, excavators, dumpers, haulages, conveyors, pumps, etc. Details of any new machinery added during the year may be furnished with cost.</p> <p>Type of machinery Capacity of each unit No.of units Electrical/ Non-Electrical (specify) Used in opencast/ underground (specify) BACK HOE 3.100 CUM 1 Non Electrical Opencast BACK HOE 1.400 CUM 1 Non Electrical Opencast</p>
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**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
MCDR17	Rule 11(1)	27-MAY-21			
MCDR17	Rule 11(4)	27-MAY-21			

**Date :**

**(DEEPAK SHARMA)**

Indian Bureau of Mines