

**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-332

Mine code : 38MPR35038

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

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **ISPAT I & II**
- (b) **Registration NO.** :
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
State : MADHYA PRADESH
District : SATNA
Village : PATONDHA ETC.
Taluka : RAGHURAJ NAGAR
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 : P.O. BABUPUR, DIST. SATNA (M.P.)
3. (a) Lease Number : MPR0468
(b) Lease area : 590.52
(c) Period of lease :
(d) Date of Expiry : 31-DEC-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.
 Raw Meterial Div. Bokaro
 Zone, Bokaro Steel City
 BOKARO JHARKHAND
 Phone: N. A.
 FAX : N. A.

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	18-NOV-03
Plan/Scheme of Mining	:	Modif.of approved Mining Plan	25-MAR-09
	:	Mining Scheme rule 12 MCDR1988	29-JUN-11
	:	Mining Scheme rule 12 MCDR1988	04-DEC-14

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 40nos of borehoels in the year 2019-20 and 43 nos of boreholes in the year 2020-21 at grid interval 200X200 m	exploration was not carried out by the lessee, for the deviation of the exploration proposal violation issued	
1b	Exploration over lease area for geological axis 1 or 2	It was proposed to explore the area upto G1 level	Exploration wasnot carried out as per proposal	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Jaypee Bhilai exploration unit	Jaypee Bhilai Explortaion unit himself	
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 01.04.2017 111-18.927 122 & 122-7.68 211-0 331-0 332-0 333-10.83	as on 01.04.2020 111- 16.967 122 & 122- 7.68 211-0 331-0 332-0 333-10.83	
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
2a	Location of development w.r.t.lease area	it was proposed to do development in the south east portion of the ML	development in proposed location but lackign behind the achievemnt ration	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	proposed	OB bench 1 no 2-3 m limestone bench 3 no 7-8 m	
2c	Stripping ratio or ore to OB ratio	1:0.46	1:0.60	
2d	Quantity of topsoil generation in m3	Not Proposed	Nil-0 proposal was to go deeper no top soil excavation	
2e	Quantity of overburden generation in m3	Not Proposed	Nil-0	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Developmnet was to go deeper in the south-eastern portion of the ML, development lacking behind the proposal violaion issued

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One pit	One pit	
3b	Quantity of ROM mineral production proposed	2320000 tonnes (2019-20) 2320100 (2020-21)	420790.880 (2019-20) 570146.450 (2020-21)	
3c	Recovery of sailable/usable mineral from ROM production	100 %	100 %	ROM is being used in captive cement plant
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 proposed	Mechanical Screening method adopted for segregation ROM & Waste
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not Proposed	Nil-0
3j	Provision of drilling and blasting in mineral benches	Proposed	as per proposal
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 height and width suitable	as per proposal height and width suitable for proposed mining method
3n	Ore to OB ratio for the pit/mine during the year.	1:0.46	1:0.86
3o	Total area put in use under different heads at the end of year	173.187 hect	154.23 hect

3p	Production of ROM mineral during the last five year period as applicable	2020-21=2320100 2019-20=2320000 2018-19=2320000 2017-18=2320000 2016-17=500000	2020-21=570146.45 2019-20=420790.880 2018-19=470983.320 2017-18=501837.340 2016-17=134982.290
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3q	General remarks of inspecting officers on method of mining etc.	Opencast mining method adopted, HEMM is being used in mineral benches, screening used for segregation of ROM & waste
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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	
4b	Location of topsoil, OB and mineral reject dumps	OB dumps proposed in southern part of the Pit	as per proposal	
4c	Number of dumps within lease area and outside of lease area	two active dumps	two	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	outside the upl	outside the upl	
4e	Number of active and alive dumps.	two active dumps	two active dumps	
4f	Number of dead dumps.	none	none	
4g	Number of dumps established.	None	None	

4h	Whether Retaining wall or garland drain all along dumps are there.	proposed	as per proposal	350 X1X1
4i	Length of Retaining wall or garland drain all along dumps	retaining wall proposed	retanign wall prepared	
4j	Number of settling ponds	two	two	
4k	Specific comments of inspecting officer on waste dump management			separate dumping of waste OB and minerals

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 the mineral propose	full extraction of the mineral not 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	full extraction of the mineral not done yet, therefore no proposal of backfilling given	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			backfilling not done yet, full extraction of mineral in progress

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
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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 captive cement plant	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical method proposed	screening is being done for segragation	
7c	Different grade of mineral sorted out at mines.	Not Proposed	Nil-0	
7d	Any beneficiation process at mines .	Not Proposed	Nil-0	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			No beneficiaton procees adopted

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	proposed	as per prpopsal separatly top soil is being stacked for planttaion	
8b	Concurrent use or storage of topsoil	proposed	top soil is being used in planttaion	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	proposed	separate dumps of OB waste and mineral	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	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

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	submitted	AR & MR Submitted	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	submitted	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
9k	Scrutiny of Annual return on mining machineries	furnished	furnished

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)	27-MAY-02			
MCDR17	Rule 11(4)	27-MAY-02			

Date :

(DEEPAK SHARMA)

Indian Bureau of Mines