

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

**Review and updation of Mining Plan REPORT**

**Jabalpur regional office**

**Mine file No :** MP/JABALPUR/IRON ORE -15

**Mine code :** 30MPR18017

- (i) Name of the Inspecting : **SQ05** ) **DEEPAK SHARMA**  
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine :  
Official with  
Designation
- (iv) Date of Inspection : 25-MAR-19
- (v) Prev.inspection date :

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **GOSALPUR (12.77HA)**
- (b) **Registration NO.** :
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address  
State : MADHYA PRADESH  
District : JABALPUR  
Village : GOSALPUR  
Taluka : SIHORAAND  
Post office : GOSALPUR  
Pin Code : 483222  
FAX No. : NA  
E-mail : NA  
Phone :
- (f) Police Station : GOSALPUR
- (g) First opening date : 07-NOV-11
- (h) Weekly day of rest :
2. Address for : NARAYAN METALS & MINERALS  
correspondance BENGALI CLUB MARKET, KARAMCHAND CHOWK,  
JABALPUR (M.P.) 482002
3. (a) Lease Number : MPR2265  
(b) Lease area : 12.77  
(c) Period of lease : 20  
(d) Date of Expiry : 07-APR-29
4. Mineral worked : MANGANESE ORE Associated  
IRON ORE Main

## 5. Name and Address of the

Lessee : NARAYAN METALS & MINERALS  
3, BENGALI CLUB MARKET  
KARAMCHAND CHOWK JABALPUR  
JABALPUR MADHYA PRADESH  
Phone:  
FAX :

Owner : NARAYAN METALS & MINERALS  
3, BENGALI CLUB MARKET,  
KARAMCHAND CHOWK JABALPUR  
JABALPUR MADHYA PRADESH  
Phone:  
FAX :

6. Date of approval of Mining	:	Modif.of approved Mining Plan	20-SEP-13
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	13-AUG-14
		Modif.approved Mining Scheme	22-JUN-15

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No backlog for previous year as no proposal was given for exploration	Not Done	
1b	Exploration over lease area for geological axis 1 or 2	proposal was given for exploration upto G2 level	Ge level of exploration was already	Area is already at G2 level of exploration
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not Mentioned	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal was given for the year 2018-19	No work done for exploration	
1e	Balance reserve as on 01/04/20	As on 01.04.2015 121-513130 T (Fe) 121-51712 T (Mn)	As on 01.04.2019 122-507229 T (Fe) 122-51662 T (Mn)	
1f	General remarks of inspecting officers on geology, exploration etc	No exploration was proposed for the year 2018-19	No work done in respect of exploration	The lease area belongs to Mahakaushal belt of Jabalpur Dist. Fe founds with laterite in association. In the lease area Mn found in pocket deposit.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t. lease area	proposal was given to develop the pit from centre portion to towards North-East direction	work was slower then the proposal, in same direction
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	proposal was given to work on iron ore (fines) bench of 6 meter	work done as per proposal with slower rate of development
2c	Stripping ratio or ore to OB ratio	1:0.54	1:0.65
2d	Quantity of topsoil generation in m3	No proposal for soil generation was given	No Soil was generated during the year, work was done of Iron ore (fines) bench
2e	Quantity of overburden generation in m3	No proposal for generation of OB	No OB was generated during the year
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		development was done as per proposal with slow rate in comaprision to proposal

### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One Pit was proposed for working	Working was done in single pit as proposal	
3b	Quantity of ROM mineral production proposed	105300 T Fe Fines	400 T Fe Fines	
3c	Recovery of sailable/usable mineral from ROM production	65 %	65 %	
3d	Quantity of mineral reject generation	Not proposed	NIL	

3e	Grade of mineral rejects generation and threshold value declared.	Not Proposed	NIL	
3f	Quantity of sub grade mineral generation.	Not Proposed	NIL	
3g	Grade of sub grade mineral generation	Not Porposed	NIL	No subgrade mineral generated
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised Method proposed for segregation	Mechanised method adopted	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No study proposal given	NA	
3j	Provision of drilling and blasting in mineral benches	Drilling and blasting proposed in the mineral benches	Drilling and blasting is being done in the mineral benches	
3k	Provision of mining machineries in mineral benches	Mining Machinery proposed in the mineral benches.	HEMM has been deployed in the mineral benches	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	one bench fo 6 meter height in the Iron Ore fines	working as per proposal with slower rate of development	
3m	Total area covered under excavation/pits	Under excavation 1.922 hectare was proposed	actual 1.03 hectare approx covered under excavation	
3n	Ore to OB ratio for the pit/mine during the year.	proposed 1:0.54 Ore to OB ratio	Actual 1:0.31 Ore to OB ratio approx	

3o	Total area put in use under different heads at the end of year	6.8993 hect proposed are put in use under different heads	around 5.0 hect aprox are put in use under different heads	
3p	Production of ROM mineral during the last five year period as applicable	below are the year wise details of production proposed 2015-16=15795 2016-17=120405 2017-18=99450 2018-19=105300	details of year wise production acheived and reported 2015-16=2600 2016-17=2900 2017-18=0 2018-19=400	production is on lower side as compare to the proposal, mine was not in full oprtainal due to want of new EC
3q	General remarks of inspecting officers on method of mining etc.	Opencast Mechanised mining is proposed	Opencast Mechanised Mining method is adopted in the mining lease with the deployment of HEMM	Operations are not in full capacity due to want of new EC

#### Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Dumps for waste (phyllite)	Phyllite waste dumps are in lease area	
4b	Location of topsoil, OB and mineral reject dumps	4 small dumps of waste near BP 12	4-5 small dump are present in the lease area of waste	waste dumps shall be used in mine road development
4c	Number of dumps within lease area and outside of lease area	5 dumps of waste are proposed	5 dumps of waste are present in the area	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	4 dumps are located near BP 11-12 and one in th etop northern part of the lease area	4 small dumps of 2-3 m height present in the lease area central location near BP 12, one dump of 7-8 m is located in the top northern portion of the lease area near BP 20-21	

4e	Number of active and alive dumps.	5 dumps fo waste labled as active dumps	5 dumps of waste are active dumps	
4f	Number of dead dumps.	None	No dead dumps seen in the lease area	
4g	Number of dumps established.	Not proposed	No proposal for dump establishment given neither seen	
4h	Whether Retaining wall or garland drain all along dumps are there.	No Proposal was given	No retaining was seen in the mine and surrounding	
4i	Length of Retaining wall or garland drain all along dumps	No proposal was given	NIL	
4j	Number of settling ponds	not proposed	NIL	
4k	Specific comments of inspecting officer on waste dump management			there are five active dumps are present in the lease area, all teh dumps are of waste roks / phyllites, 4 of them are of 2-3 meter height and one dump is of 7-8 meter height

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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 proposal was given for full extration	Pit or any part is not mature enough for backfilling	
5b	Area under backfilling of mined out area	No proposal was given	Not done	

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	not proposed	no top soil was generated during the year, hence no proposal was given	
5d	Total area fully reclaimed and rehabilitated	No proposal was given	No area is fully mature enough for reclamation and rehabilitation	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			No area is fully mature enough for reclamation and rehabilitation in the lease area, mining operations were not if full swing due to want of EC

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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).	Yes	Yes	
6b	Area available for rehabilitation (ha) .	NIL	NIL	
6c	afforestation done (ha).	it was propose to plant 10 of sampling over an area of 90sq meter	plantation was done, due to non propoer maintance plant could not survive	
6d	No. of saplings planted during the year	10 nos	10 nos	
6e	Cumulative no .of plants	NA	NA	
6f	Any other method of rehabilitation	Not proposed	NA	



6g	Cost incurred on watch and care during the year	NA	NA
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	Not proposed	NA
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NA	NA
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	NA	NA
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NA	NA
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	NA	NA
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	NA	NA

6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NA	NA	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NA	NA	
6p	Compliance of environmental monitoring (core zone and buffer zone)	NA	NA	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			No area is or partial area is fully matured enough for backfilling, plantation done but not maintained, verbal instructions given to maintained and increase the afforestation.

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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 proposed	ROM dispatched to near by plant for grade upgradation	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Not proposed	NA	
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			the low grade iron ore (fines and lumps) were directly dipatched to near by plant for grade upgradation.

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**Environment:**

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	proposed	separate removal of top soil and utilisation proposed as and when encountered during the mining operations	
8b	Concurrent use or storage of topsoil	Use of top soil proposed	generated top soil is proposed to be used in plantation and backfilling	no top soil was generated during the year 2018-19
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	proposed	yes separate dumps proposed for OB, waste and rejects	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	proposed	it is proposed to backfill the mined out area, when its mature enough	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	proposed	it is prposed, no area mature enough till date	

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	NA	NA	
8g	Survival rate	80%	40%	
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			lease area is adjacent to other mines and field, overall precautions need to be taken for 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	submitted	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	submitted	given	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	given	given	
9d	Scrutiny of Annual return on afforestation	NA	NA	

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9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	given	given
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given	given
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	given	given
9h	Scrutiny of Annual return on fixed assets	given	given
9k	Scrutiny of Annual return on mining machineries	submitted	submitted

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**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)	02-MAY-19				
Rule 28(1)	02-MAY-19				
MCDR17 Rule 55(1) (1)	02-MAY-19				

**Date :**

**(DEEPAK SHARMA)**

Indian Bureau of Mines