

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

**Review and updation of Mining Plan REPORT**

**Jabalpur regional office**

**Mine file No :** MP/CHHATARPUR/IRONORE-01

**Mine code :** 30MPR07001

- (i) Name of the Inspecting : **G005** ) **SANJAY M. GIRHE**  
Officer and ID No.
- (ii) Designation : Regional Mining Geologist
- (iii) Accompanying mine :  
Official with  
Designation
- (iv) Date of Inspection : 09-DEC-19
- (v) Prev.inspection date :

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **KHERA MAJHORA (4.896) HA**
- (b) **Registration NO.** : **IBM/5866/2011**
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :  
State : MADHYA PRADESH  
District : CHHATARPUR  
Village : KHERA MAJHORA  
Taluka : Baxhwaha  
Post office : KHERA MAJHORA  
Pin Code : 471001  
FAX No. :  
E-mail :  
Phone :
- (f) Police Station :
- (g) First opening date : 17-NOV-15
- (h) Weekly day of rest : SUN
2. Address for :  
correspondance
3. (a) Lease Number :  
(b) Lease area :  
(c) Period of lease :  
(d) Date of Expiry :
4. Mineral worked : IRON ORE Main

5. Name and Address of the

Lessee : JIN DUTT MINERALS (P) LTD.  
POST BOX NO.27, TORIA  
HOURE, CHHATARPUR MADHYA  
PRADESH  
Phone:07682-243884, 243885 (O) 241532,241215 R  
FAX :07682-243883

Owner : JIN DUTT MINERALS (P) LTD.  
4, KULKARNI BUILDING  
M.G.ROAD RAIPUR  
CHHATTISGARH  
Phone: N. A.  
FAX : N. A.

6. Date of approval of Mining :  
Plan/Scheme of Mining

## MCDR INSPECTION REPORT

### 1.0 Exploration

SN	Item	Proposals (2018-19)	Actual work (2018-19)	Remarks
1a	Backlog of previous year	During the year no exploration was proposed	NA	
1b	Exploration over lease area for Geological axis 1 or 2.	During the year no exploration was proposed	Nil	During the year no exploration was proposed
1c	Exploration Agency & Expenditure in lakh Rupees during the year	No exploration was proposed for G1/G2 axis	Not Applicable as no proposed exploration carried out.	During the year no exploration was proposed
1d	Balance area to be explored to bring Geological axis in 1 or 2	About 2.17 Ha area explored in G1 by BH drilling & working pits	About 2.17 Ha area explored in G1 by working pits & rest area of 2.43 Ha yet to be proposed in G1 level.	2.49 hact area is proven up to depth of 10mts and further depth to be proven.
1e	Balance reserves as on 01.04.2019	Reserves in Tonnes Probable (121) -1032075 Resources in tonnes Pre-Feasibility (221): 230175 The balance reserves as on 13/02/2013 as per MP approved on 13/02/2013	Reserves in Tonnes Probable (121) -1032075 Resources in tonnes Pre-Feasibility (221): 230175 Measured (331)-1262250 Inferred (333)-1850850 The balance reserves as on as per Annual return 2018-19	No additional reserves estimation done.
1f	General remarks of inspecting officer on geology, exploration etc.	In past exploration was carried out by 04 nos. of BHs in ML area. Further, mostly lease area is explored by way of working pit up to 10-15m and remaining area yet to be explored in G1 level.		

### 2.0 Development

SN	Item	Proposals (2018-19)	Actual work (2018-19)	Remarks
2a	Location of development w.r.t. lease area	It was proposed to work in Pit-1 from 337mRL to 329mRL	Mine working carried out as per the proposed locations.	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	No OB proposed during the year. Separate benches of 6mts height proposed in ore.	No separate benches observed for OB. Bench height of 6 to 7m maintained in iron ore for systematic mining.	Most of the working lease is devoid of top soil. Sufficient development work carried out by removing top OB/lateritic soil.
2c	Stripping ratio or ore to OB ratio	1:0.07 tonne/CuM	NA	No OB generated during the year
2d	Quantity of topsoil generation in (cum)	No Proposed	Nil	Area mostly devoid of top soil
2e	Quantity of overburden generation in m3	8500 tonnes	No OB generated during the year	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	There is single quarries mostly hilly deposit. Iron ore mineralisation very well exposed/seen in working pits.		

### 3.0 Exploitation

SN	Item	Proposals (2018-19)	Actual work (2018-19)	Remarks
3a	Number of pits proposed for production	Working was proposed in single pit in single bench from 342 to 337mRL	Mine working was carried out in given single pit	
3b	Quantity of ROM mineral production proposed	114750 MT proposed in 2018-19	79940 (Achieved in 2018-19)	Production on lower side due to less market demand
3c	Recovery of salable/usable mineral from ROM production	90% recovery of Iron ore proposed	Almost 90 % achieved	About 10% of ROM generated as interburden waste.
3d	Quantity of mineral reject generation	Not Proposed	Nil	No ore rejection, entire utilised
3e	Grade of mineral reject generation and threshold value declared	Not Proposed	No mineral reject generation was proposed	
3f	Quantity of sub-grade mineral generation	Not Proposed	Nil	Neither any proposals were given for subgrade limestone nor any generated during the year.
3g	Grade of sub-grade mineral generation	Not Proposed	Nil	Not Proposed during the year
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanical screening & sizing proposed	Mechanical screening & sizing carried out	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Not Proposed	Nil	Lessee is not having any plan for beneficiation study.
3j	Provision of drilling & blasting in mineral benches	No drilling & blasting proposed	Not Applicable	Mostly the iron ore is of friable/ lateritic fines in nature
3k	Provision of mining machineries in mineral benches	L & T PC-200 of 0.9CuM Dumpers 16 T capacity-24 Nos Water Tanker-5KL	L & T PC-200 of 0.9CuM Dumpers 16 T capacity-24 Nos Water Tanker-5KL	HEMM deployment proposed as per the capacity & targeted production.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	No OB bench height is proposed bench height of 6m proposed in iron ore	Mostly the benches heights in ore are maintained	Proposed bench height is suitable as per the deposit
3m	Total area covered under excavation/pits	2.174 Ha area was proposed in approved MP period i.e. 2015-16 to 2019-20	4.60 Ha as on 01.04.2019 as per Annual Return, 2018-19	Lateral excavation. Also working carried out in already working pit.
3n	Ore to OB ratio for the pit/mine during the year	1:0.07 tonne/CuM	Nil	No OB generated during the year
3o	Total area put in use under different heads at the end of year	As per the previous approved MMP Pits-2.174 Ha Road-0.107Ha Site service-0.01Ha As per approved MP	Pits-1.50 Ha Already exploited & abandoned -4.60Ha Waste disposal-0.25Ha Road-0.10Ha As per Annual Return, 2018-19	No lateral excavation, production was carried out in already working pit.
3p	Production of ROM mineral during last five-year period, as applicable	2014-15-: NA	2014-15-: NA	Online return not submitted, violation under rule 45(5)(c) issued
		2015-16-:51692 MT	2015-16-:NA	
		2016-17-:95893 MT	2016-17-: MT	
		2017-18-: 95850MT	2017-18-: NA	
		2018-19-: 114750 MT	2018-19-: 79940MT	
3q	General remarks of inspecting officer on method of mining etc.	Open cast fully mechanised working proposed by using Excavator & dumper combination without drilling & blasting. Single working pit is located on		

		central part.
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#### **4.0 Solid Waste Management-Dumping**

SN	Item	Proposals (2018-19)	Actual work (2018-19)	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Not proposed	OB dumps proposed to be utilised for road preparation, bund formation, etc	.
4b	Location of topsoil, OB & mineral reject dumps	Not Proposed	OB dumps proposed to be utilised for road preparation, bund formation, etc	
4c	Number of dumps within lease area and outside lease area	No Ob dumps within lease area	No Ob dumps within lease area	No dumping outside ML
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Not Proposed	Nil	No OB dumping proposed
4e	Number of active & alive dumps	Not Proposed	NA	No OB dumps within lease area
4f	Number of dead dumps	No dead dumps in the lease area	No dead dumps in the lease area	
4g	Number of dumps stabilised	Not Proposed	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there	Not Proposed	Nil	
4i	Length of Retaining wall or garland drain all along dump	Not Proposed	Nil	
4j	Number of settling ponds	Not Proposed	Nil	
4k	Specific comments of inspecting officer	The mine waste is in the form of lateritic soil and concurrent use for road maintenance, bund formation was proposed.		

#### **5.0 Solid Waste Management-Backfilling**

SN	Item	Proposals (2018-19)	Actual work (2018-19)	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Not Proposed	None of the quarry area is fully ore exhausted. Hence, scope doesn't exist.	Deposit is hilly in nature, hence scope of backfilling doesn't exist.
5b	Area under backfilling of mined out area	Not Proposed	No working pit area backfilled so far now	7.5m barrier zone area backfilled at some locations
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Not Proposed	Nil	No top soil generation was proposed during the year
5d	Total area fully reclaimed & rehabilitated	Not proposed during the year 2018-19	Backfilling not carried out during the year	Total backfilled area's details not furnished in approved document
5e	General remarks of inspecting officer on backfilling, reclamation etc	Lateritic waste as mine waste encountered in the lease area. No top soil generation is proposed. Generated mine waste proposed for bund formation, road maintenance etc.		

## 6.0 Progressive Mine Closure Plan

SN	Item	Proposals (2018-19)	Actual work (2018-19)	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 26(2). Details should be given in the format as given in Annexure-20.	To be submitted before 1st July of every year	Submitted within time limit as per the provisions of Rule 26 of MCDR,2018	
6b	Management of worked/mined out benches i) Area available for rehabilitation (ha) ii) Afforestation done (ha) iii) No. of saplings planted during the year iv) Cumulative no. of plants v) Any other specific method of rehabilitation vi) Cost incurred on watch & care during the year	Not Proposed	Not done	
6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L X B X D) ii) Void filled by waste/tailings iii) Afforestation on the backfilled area iv) Rehabilitation by making water reservoir v) Any other specific means	Not Proposed	Not Applicable	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	Not Proposed	Nil	Rehabilitation not proposed over waste land
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Periodical Air, Water, Noise monitoring Proposed	Carried out as per the proposals	Analysis reports were provided during the inspection
6f	General remarks of inspecting officer on PMCP compliance & progressive	Scope of PMCP work is not very well existed in the lease area as the deposit is hilly in nature. Other PMCP proposals were given in approved document		

## 7.0 Mineral Conservation

114750 MT proposed in 2018-19	79940 (Achieved in 2018-19)
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SN	Item	Proposals (2018-19)	Actual work (2018-19)	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	114750 tonnes proposed as total ROM production for despatch. grade wise sorting proposed	79940 tonne ore produced & 60201 tonne ore dispatched as cement grade	Production of all grades of iron ore carried out during the year
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Screening & sizing of Iron ore proposed	Screening & sizing of Iron ore carried out	Crusher/ screening plant deployed.
7c	Different grade of mineral sorted out at mines	Different grades of lumps & fines ore sorting proposed	Different grades of lumps & fines ore sized & sorted through crusher/screening	
7d	Any beneficiation process at mines	No beneficiation proposed within ML area	Not Applicable	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Ore is being conserved by suitable screening & sizing. Iron ore being supplied to the different industries as per their requirements.		

## 8.0 Environment

SN	Item	Proposals (2018-19)	Actual work (2018-19)	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No top soil generation & utilization proposed	Nil	Top soil not encountered
8b	Concurrent use or storage of topsoil	Not Proposed	Nil	No generation of top soil proposed during the year.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	OB generated proposed for for road maintenance & bund formation	As per the proposals carried out	
8d	Use of overburden, waste rock, rejects and fines dump for restoring the land to its original use	Not Proposed.	OB generated proposed for for road maintenance & bund formation	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not Proposed	Nil	Working pits not matured for the said purpose
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Not Proposed	No plantation carried out	
8g	Survival rate	Not Proposed	NA	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling is proposed by water tanker	Regular water sprinkling is done by water tanker	Water tanker of 5KL capacity is provided for the purpose
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Aesthetic beauty in and around mine area is good because it is hilly deposit and natural plantation very well seen. No significant plantation done by the lessee in ML area.		

## 9.0 Compliance of Rule 45

S.N	Item	COMMENTS	Remarks
.	Status of submission of Monthly and Annual returns	M.R. submitted upto- January-2020 A.R. submitted upto- 2018-19	Annual Return for the year 2018-19 submitted within time limit

S.N	Item	Details GIVEN in A.R. 2018-19	Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given	Shri Anil Kumar Das, appointed as Mining Eng. & Shri Nikhil Sharma as Geologist	Were present during mines inspection
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given	Pits-1.50 Ha Already exploited & abandoned - 4.60Ha Waste disposal-0.25Ha Road-0.10Ha As per Annual Return, 2018-19	As per this office records & offline annual returns submitted by you for the year 2018-19, it was observed that closing stocks at mine head of some of the Iron ore grades like 55% to Below 58% (Lumps)- 6290.36M.T., 58% to Below 60% (Lumps)- 15439.98M.T, 60% to Below 62% (Lumps)- 17126.06M.T, etc. as
9d	Scrutiny of Annual return on afforestation	Not Given	No plantation carried out by the lessee	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Not Given	No mineral rejects generated during the year	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given	<u>Lumps &lt;55% Fe:</u> O/S-5931 MT Despatch-17849 MT	

			C/S-9331 55% to below 58%: O/S-2348 MT Despatch-28535 MT C/S-6290MT	reported in said annual return not found available at mine site at the time of inspection.
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Given	<55% Fe: Rs-375/Tonne 55% to 58%- Rs-441/Tonne 58% to 60- Rs-573/Tonne 60% to below 62%-Rs 1269/Tonne	
9i	Scrutiny of Annual return on fixed assets	Not Given	NA	
As per this office records & offline annual returns submitted by you for the year 2018-19, it was observed that closing stocks at mine head of some of the Iron ore grades like 55% to Below 58% (Lumps)-6290.36M.T., 58% to Below 60% (Lumps)-15439.98M.T, 60% to Below 62% (Lumps)-17126.06M.T, etc. as reported in said annual return not found available at mine site at the time of inspection.				

- 10- Details of violations observed during current inspection and compliance position of earlier violation pointed out: - This inspection was carried out in connection with examination of Review of Mining Plan and during inspection violation of rules 11(1), 35(2), 45(5)(c)& 45(7) of MCDR,2017 were pointed out and accordingly violation letter was issued.

Sanjay M. Girhe  
Regional Mining Geologist  
RO, Jabalpur  
Dt: 16.12.2021

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