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MCDR inspection REPORT

Jabalpur regional office

Mine file No : MP/JAB/IRON-12

Mine code : 30MPR18014

- (i) Name of the Inspecting : **G007**) **RAGHUBIR SHARAN GARG**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Shri Indraneel Dawande, Qualified Person & Yogesh Mis
Official with
Designation
- (iv) Date of Inspection : 31-OCT-23
- (v) Prev.inspection date : 01-DEC-16

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **BIJAIYA (4.92 HA)**
- (b) **Registration NO.** : **IBM/952/2011**
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
State : MADHYA PRADESH
District : JABALPUR
Village : BIJAIYAAN
Taluka : SINHORA
Post office : MAGHGAWAN
Pin Code : 483334
FAX No. : NA
E-mail : -sankalpagraawal77@yahoo.coi
Phone : 9425157348
- (f) Police Station : MAJHAGAWAN
- (g) First opening date : 01-MAR-10
- (h) Weekly day of rest : SUN
2. Address for : SHRI SANKALP AGRAWAL
correspondance : WARD NO. 26 ,CIVIL LINES
KATNI(MP)
3. (a) Lease Number : MPR2264
- (b) Lease area : 4.92
- (c) Period of lease : 20
- (d) Date of Expiry : 03-APR-29
4. Mineral worked : IRON ORE Main

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5. Name and Address of the

Lessee : SANKALP AGRAWAL
CIVIL LINES KATNI (M.P.)
KATNI MADHYA PRADESH
Phone:
FAX :

Owner : SANKALP AGRAWAL
Ward no. 26 CIVIL LINES
KATNI(MP) KATNI MADHYA
PRADESH
Phone:
FAX :

6. Date of approval of Mining : Mining Scheme rule 12 MCDR1988 25-NOV-14
Plan/Scheme of Mining : MP review under 17(1) MCR 2016 24-MAR-21

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PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	05 Bore holes proposed against year 2021-22	Not carried out	Deviation pointed out through violation of rule 11(1) vide letter dated 132/11/2023.
1b	Exploration over lease area for geological axis 1 or 2	There was proposal for conversion of mineralised area into G1level through five boreholes as a additional exploration .	not carried out.	Violation of rule 12(3) pointed out vide letter dated 13/11/2023
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not proposed.	NA	-
1d	Balance area to be explored to bring Geological axis in 1 or 2	2.85hect mineralised area into G1 level.	Not carried out.	As stated in earoier violation pointed out.
1e	Balance reserve as on 01/04/20	Reserves as on 01/04/2023 842562Tonne (122)	Reserves as on 01/04/2023 914440Tonne (122)	Remaining reserves are more due to less production than the envisaged one.
1f	General remarks of inspecting officers on geology, exploration etc			Entire mineralised area is remains to be proven under G1 level. There is a need of additional exploration. Violation of rule 11(1) and 12(3) , both pointed out vide lettwer dated 13/11/2023.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	On southern part of the lease area.	As per proposal on southern part of the lease area.	-

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2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Advancement of mineral bench proposed.	As per proposal.	No deviation.
2c	Stripping ratio or ore to OB ratio	1:0.14	1:0.14	-
2d	Quantity of topsoil generation in m3	Not proposed	Reportedly not generated.	-
2e	Quantity of overburden generation in m3	14377cum	13300cum	-
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Formation of benches as per proposal is required. Matter discussed with the representative of the lessee at field during inspection and advise rendered for the formation and maintenance of benches in the light of approved proposals.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One pit namely Pit No.2	As per approved proposal.	-
3b	Quantity of ROM mineral production proposed	100635tone	93080tonne	93% of envisaged one.
3c	Recovery of sailable/usable mineral from ROM production	70%	Reportedly as per proposal.	-
3d	Quantity of mineral reject generation	Nil, Not proposaed	NA as there is no mineral reject generation.	no deviation.
3e	Grade of mineral rejects generation and threshold value declared.	Not envisaged.	Not applicabe as there is no mineral reject generation.	

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3f	Quantity of sub grade mineral generation.	Nil, not envisaged	NA as there is no sub grade mineral generation envisaged.	-
3g	Grade of sub grade mineral generation	Not envisaged	Not applicable as there is no sub grade mineral generation.	-
3h	Manual / Mechanised method adopted for segregating from ROM	There is no methodology envisaged for segregation of mineral from ROM ore.	Not applicable as there is no methodology adopted for segregation of mineral from ROM at mine head.	-
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not proposed	Not applicable.	-
3j	Provision of drilling and blasting in mineral benches	Not proposed considering properties of overburden & mineral occurrences within lease area..	Not applicable as overburden as well as mineral is very soft.	-
3k	Provision of mining machineries in mineral benches	Proposed Rock breaker, hydraulic Shovel and dumper combination.	As per approved proposals.	-
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	OK	-
3m	Total area covered under excavation/pits	3.78hect	2.387hect.	Little production during 2021-22 due to delay in EC
3n	Ore to OB ratio for the pit/mine during the year.	1:0.14	1:0.14	-
3o	Total area put in use under different heads at the end of year	3.5878hect	2.71hect	Within proposal.

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3p	Production of ROM mineral during the last five year period as applicable	2018-19 41844 T 2019-20 NIL 2020-21 Nil 2021-22 64323 T	2018-19 NIL 2019-20 NIL 2020-21 Nil 2021-22 Nil 2022-23 93080 T
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3q	General remarks of inspecting officers on method of mining etc.	Implimentation of approved Proposals may be the most suitable method of mining for the deposit.
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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)	Only OB generation envisaged that too proposed for backfilling of degraded statutory barrier zone.	Separate dumping of overburden carried out.	
4b	Location of topsoil, OB and mineral reject dumps	Only generation of overburden was envisaged . As per proposal it was supposed to be utilised in backfilling of degraded statutory barrier zone.	In place of dumping of overburden mine waste on earmarked place certain part of overburden waste material dumped on eastern part of the lease area i.e along BP No. 1 to BP.No.10C., certain part pit edge of Pit No. 2 near BP. No. 6 and rest on pit edge of Pit No.3 near BP No. 7A. Matter discussed with representative of lessee and he give his wards about regidity on approved proposals on matter concerned in future.	-
4c	Number of dumps within lease area and outside of lease area	One dump for mine waste/ overburden within lease area and none out side of lease area..	Three dumps all of them within lease area .	-

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4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Within ultimate pit limit one Overburden mine waste dump.	There are three OB mine waste dumps all of them lies within ultimate pit limit. Overburden waste dumped on eastern part of the lease area i.e along BP No. 1 to BP.No.10C., certain part pit edge of Pit No. 2 near BP. No. 6 and rest on pit edge of Pit No.3 near BP No. 7A	-
4e	Number of active and alive dumps.	Not proposed.	Three dumps	
4f	Number of dead dumps.	Not proposed	none	
4g	Number of dumps established.	Not proposed.	none of the dump established.	
4h	Whether Retaining wall or garland drain all along dumps are there.	Not proposed	Not not observed.	
4i	Length of Retaining wall or garland drain all along dumps	Not proposed	Not applicable as there was no garland drain around the dumps were seen.	
4j	Number of settling ponds	Not proposed.	Not observed	-
4k	Specific comments of inspecting officer on waste dump management			Mining operation commenced in April,2022 after getting CTO approval renewed on 01/04/2022. There are deviation on site selected for disposal of mine waste. Mining operation in the mine after a gap of about four years. Matter discussed with the lessee's representative on this issue and he ensure about rigidity on approved proposals.

Solid Waste Management - Backfilling:

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Sl.No.	Item	Propasals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	There was no proposal of bckfilling against the year under review.	Backfilling not seen.	Backfilling of degraded statutory barrier zone was proposed against 2021-22. Implimentation of backfilling proposal donot comes under review of current inspection. Beside this, deviations have been pointed out through violation of rule11(1) vide letter dated 13/11/2023 as commencement of mining operation in the mine came after april,2022 only after a gap of about four years.
5b	Area under backfilling of mined out area	0.0650hect	Not commencd so far.	Violation of rule 11(1) pointed out.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	There was no proposal against the year.	Not applicable as there was no proposal against the year.	
5d	Total area fully reclaimed and rehabilitated	Not proposed	Not carried out.	-

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5e	General remarks of inspecting officers on backfilling and reclamation etc.	Backfilling of proposed degraded portion of statutory barrier zone was not seen. External dumping in the form of three dumps were seen in place of one dump as proposed in approved mining plan. It appears that efforts of lessee towards backfilling is not sufficient. Mine is not reached on reclamation and rehabilitation stage.
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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	Submitted.	-
6b	Area available for rehabilitation (ha) .	Not proposed	NA	
6c	afforestation done (ha).	Not proposed	About 200saplings planted near mine office.	
6d	No. of saplings planted during the year	20	200	
6e	Cumulative no .of plants	92	200	
6f	Any other method of rehabilitation	Not proposed	NA	
6g	Cost incurred on watch and care during the year	Not proposed	NA	

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6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	87mX7.5mX10-11m	87mX7.5mX10-11m	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	87mX7.5mX10-11m	Nil	Violation pointed out.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	Not proposed	NA	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not proposed	NA	
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Not proposed	NA	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Not proposed	NA	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Not proposed	NA	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Not proposed	NA	

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6p	Compliance of environmental monitoring (core zone and buffer zone)	proposed	Carried out by the lessee.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		Mines came in operation after a gap of about four years. A good no. plantation about 200 have been carried out by the lessee near mine office and palnted saplings having good health. This shows a positive thinking of lessee towards environment beside not commencement of proposed backfilling work of degraded statutory barrier zone.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	100635T	Dispatch grade and quantity 51% to below 55% Fe- 72008.350tone	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	manual	As proposed	
7c	Different grade of mineral sorted out at mines.	Lumps and fine of 51% to 55%Fe	As per proposal	
7d	Any beneficiation process at mines	Not proposed	Not in use.	

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7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Upgradation of ROM is the need of the day. However as there are number of beneficiation plants lying in the area so entire ROM produce from the mine is supplied to the thses mineral processing units.
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Environment :

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	There was no proposal for separate removal of top soil as soil bench was not supposed to be advanced during the year.	Soil generation not reported.	
8b	Concurrent use or storage of topsoil	Not proposed	Not applicable for the year.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dump for OB was propose.	Only overburden removal was proposed accordingly only OB generation agaist the year reported which are dumped in three different places.	Representative of lessee present at the time of inspection was advised to follow the approved proposals.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not proposed	NA	

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8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not proposed	NA	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Proposed. plantation of 20 saplings.	About 200saplings have planted near the mine office area.	
8g	Survival rate	80%	80%	
8h	Water sprinkling on roads to control airborne dust	Proposed.	Water sprinklings arrangement were seen during inspection.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			There is no adjoining mining lease in the area. Lease area fall in hilly terian rich of bushes and good no. of plants out side of the lease area.A few plants are also with in lease area. Natural beauty is remains good. A good no. of saplings have already planted by thre lessee. Thus, efforts for betterment of environment is going on alongwith land degradation by exploiting of mineral from the lease area.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Submission of Monthly Annual returns	Monthly Returns upto Nov,2023and Annual returns for the year 2022-23 found submitted.	

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9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Not given	Shri Harsh Gautam as a Mining Engineer and Umakant soni as a Geologist have appointed in the mine.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given	Lease area (surface area) utilisation as at the end of year (hectares): i) Already exploited and abandoned by opencast (O-C) mining 0.000 ii) Covered under current (O-C) Workings 2.387 iii) Reclaimed-rehabilitated 0.000 iv) Used for waste disposal 0.000 v) Occupied by plant, buildings, residential, welfare buildings and roads 0.264 vi) Used for any other purpose (specify) MINERAL STORAGE 0.059 vii) Work done under progressive mine closure plan during the year 0.000	
9d	Scrutiny of Annual return on afforestation	Given	200saplings planted during the year.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Given	Reject generation Nil	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given	ROM Closing stock 10700tone Graded Ore stock- Lumps-55% to below 58% Fe 4231.760 tone Fines-51% to below 55% Fe-2056.65 tone	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given	Sale Value & Ex Mine Price both are - Lumps-55% to below 58% Fe Rs.1166/67 Fines-51% to below 55% Fe- Rs. 379/99 Cost of production Rs. 389/50	There is more cost of production in comprision to sale value. Issue had been raised vide violation of rule 45(7) of MCD Rule vide letter dated 13/11/2023.

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9h	Scrutiny of Annual return on fixed assets	Given	Rs. 132804	-
9k	Scrutiny of Annual return on mining machineries	Given	Shovel 1(1cum bucket) Dumper 1(24tonner) pump 1	

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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)	13-NOV-23			
MCDR17	Rule 12(3)	13-NOV-23			
	Rule 45(7)(i)	13-NOV-23			

Date :**(RAGHUBIR SHARAN GARG)**

Indian Bureau of Mines