

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

**MCDR inspection REPORT
Jabalpur regional office**

Mine file No : MP/REWA/BX-8

Mine code : 07MPR33016

- (i) Name of the Inspecting : **G007**) **RAGHUBIR SHARAN GARG**
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : Shri Dhruv Singh, Mining Engineer and Deepak Singh Rep
Official with
Designation
- (iv) Date of Inspection : 22-SEP-21
- (v) Prev.inspection date : 28-JAN-20

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **CHITTI (9.716 HA)**
- (b) **Registration NO.** : **ibm/14332/2012**
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address :
State : MADHYA PRADESH
District : REWA
Village : CHITTI JAGAR
Taluka : SIRMOUR
Post office : KUMHARA- JUDWANI
Pin Code : 486445
FAX No. : NA
E-mail : gmcrewa@gmail.com
Phone : 9425055600
- (f) Police Station :
- (g) First opening date : 07-OCT-11
- (h) Weekly day of rest :
2. Address for :
correspondance :
3. (a) Lease Number : MPR2649
- (b) Lease area : 9.72
- (c) Period of lease : 30
- (d) Date of Expiry : 06-OCT-39
4. Mineral worked : BAUXITE Main
CLAY (OTHERS) Associated
OCHRE Associated
LATERITE Associated

5. Name and Address of the

Lessee : JAGDISH DHANERIA
38, JUNI BAZAR KUMAUTPUR
JUNI, INDORE (MP) INDORE
MADHYA PRADESH
Phone:
FAX :

Owner : JAGDISH DHANERIA
119/1, kumawatpura JUNI
INDORE INDORE MADHYA
PRADESH
Phone: NA
FAX : NA

6. Date of approval of Mining : Mining Scheme rule 12 MCDR1988 12-SEP-14
Plan/Scheme of Mining : MP modif under 17(3) MCR 2016 07-MAR-19

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	proposed 2 non core drill of 10m depth each against 2019-20 and 4 pits of 3mX3mX3m against 2020-21. e year under review	Neither borehole nor proposed pits have been done by the lessee.	eviation noticed and accordingly violation of rule 11(1) pointed out.
1b	Exploration over lease area for geological axis 1 or 2	Entire area has been considered under G1 axis in the approved document under review.	Additional exploratory work proposed against 2019-20 and 2020-21 were not carried out but entire area was considered under G1 axis based on extensive mine working in the lease area.	Exploratory proposals were in the approved document only for conformity of mineralisation. Entire area has been considered under G1 axis in the approved document under review.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not given in approved document	Not applicable as no proposed exploratory work not commenced.	Not Applicable.
1d	Balance area to be explored to bring Geological axis in 1 or 2	None	None	Entire lease area considered explored.

1e	Balance reserve as on 01/04/20	As on 01/11/2018 mineral reserves was 97698.77tonne under 121 UNFC codification.	total production from Nov,18 to March,19 was 18190 tonne and production during 2019-20 was 13890 tonne Thus after appropriation of reserves as on 01/11/2018 there was reserves of bauxite in the mine was 97898.77tonne . Thus as on 01/04/2020 the available reserve of bauxit in the mine was 79508.77tonne.	As per reserve as on 01/04/2020 there is no much more reserve of bauxite(79508.77 tonne) in the mine out of which 12255tonne already have exploited during 2020-21. Thus as on 01/04/2021 therer is available reserves of 67000tonnes only. Close monitoring is required in this case.
1f	General remarks of inspecting officers on geology, exploration etc	-	-	As per reserve as on 01/04/2020 there is no much more reserve of bauxite(79508.77 tonne) in the mine out of which 12255tonne already have exploited during 2020-21. Thus as on 01/04/2021 therer is available reserves of 67000tonnes only. Close monitoring is required in this case.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N2749290 to 2749320 and E512130 to 512280	N2749290 to 2749320 and E512130 to 512280	Extraction of bauxite carried out from the proposed site without forming of regular benches as proposed. Violation of rule 11(1) pointed out.

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	There is proposal of extraction of bauxite by forming one bench of 2.0m height	Extraction of bauxite mineral carried out from the proposed site without forming regular benches	Deviation pointed out through violation of rule 11(1)
2c	Stripping ratio or ore to OB ratio	1:0.25	1:0.22	On the basis of Stripping ratio is almost same as proposed.
2d	Quantity of topsoil generation in m ³	Not proposed as there is no soil at top.M	Nil	There is no soil at top of the deposit.
2e	Quantity of overburden generation in m ³	1533CUM	2700CUM	In fact salectively bauxite/ laterite were exploited from the proposed site and mine waste remains left in the site.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	-	-	In fact salectively bauxite/ laterite were exploited from the proposed site and mine waste remains left in the site.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	Exploitation of mineral carried out from the site proposed in the approved document.
3b	Quantity of ROM mineral production proposed	12342tonne	12255tonne	Reported production is as per proposal

3c	Recovery of sailable/usable mineral from ROM production	70%	As proposed	From ROM bauxite and laterite exploited from the site and rest mine waste left at the site itself. Almost recovery of bauxite is same as proposed.
3d	Quantity of mineral reject generation	No	NO	There is no mineral reject. Laterite is also granted in lease deed hence all the lean grade bauxite mineral i.e laterite is exploited as minor mineral.
3e	Grade of mineral rejects generation and threshold value declared.	Not applicable as there is no mineral reject .	NA	Not applicable as there is no mineral reject .
3f	Quantity of sub grade mineral generation.	There is no sub grade mineral	NA	There is no generation of sub grade mineral
3g	Grade of sub grade mineral generation	Not Applicable	NA	Not Applicable as there is no generation of sub grademineral.
3h	Manual / Mechanised method adopted for segregating from ROM	Manual as well as mechanised screening.	Manual as well as mechanised screening.	There is no deviation.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not Proposed	Not carried out	No deviation.
3j	Provision of drilling and blasting in mineral benches	Not proposed	Not carried out.	No deviation.

3k	Provision of mining machineries in mineral benches	Yes, Hydr. Excavator of 0.9CUM capacity with dumper combination proposed	As per proposal one excavator of 0.9CUM capacity with dumper were seen	No deviation.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	yes, As mineralisation of bauxite is only 2.0 m and accordingly 2.0m bench height proposed. There is no bench in overburden.	Yes exploitation of bauxite / laterite is being carried out in one bench as proposed.	yes method of mining of mineral bauxite / laterite is suitable for method of mining.
3m	Total area covered under excavation/pits	0.38hect	Almost same as proposed 0.4.0hect.	There were no significant deviation in this regard.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.25	1:0.22	No deviation.
3o	Total area put in use under different heads at the end of year	5.19 pit, 1.365 backfill, 0.50dump, 0.159 infra	5.28 .50 dump,, .159 infra 1.4 backfilled	Overall 6.53hect area was considered for the calculation of Financial Assurance. It appears that total lease area under mining and allied activities are not more than the area for which FA had been deposited.
3p	Production of ROM mineral during the last five year period as applicable	16-17: 8452, 17-18 :8452, 18-19-7587 19-20 16812 20-21 12342	16-17: 2140, 17-18 :876.23 18-19: 11680 19-20 13890, 20-21 12255	It is observed that in 2018-19 against targeted production of 7587tonne lessee had produced 11680tonne . Thus excess production carried out during the year 2018-19

3q	General remarks of inspecting officers on method of mining etc.	-	-	Mining operation were carried out without forming benches. For excess production remark already given in previous report.
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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)	Not Proposed as there is no top soil	NA	OK
4b	Location of topsoil, OB and mineral reject dumps	NA	NA	NA
4c	Number of dumps within lease area and outside of lease area	There is no proposal for dump with in lease area ss well as out side lease area.	There is no dump neither within lease area nor out side lease area.	OK
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Not applicable as there is no proposal for dump	There is no dump	OK
4e	Number of active and alive dumps.	none	None	OK
4f	Number of dead dumps.	None	None	NA
4g	Number of dumps established.	Not Applicable as there is no proposal	None	NA

4h	Whether Retaining wall or garland drain all along dumps are there.	50m garland drain and a settling tank near mineral stack proposed near to boundary pillar No.1 boundary pillar no. 9	Garland drain and settling tank senn on proposed site.	OK
4i	Length of Retaining wall or garland drain all along dumps	50m	50m	ok
4j	Number of settling ponds	one	one	ok
4k	Specific comments of inspecting officer on waste dump management	-	-	There is no proposal for dump in this review period ,

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.	12500CUM	10000CUM	
5b	Area under backfilling of mined out area	5470square m	Almost entire area proposed for exploitation against reviewing year were seen exploiteded in scatterd manner.	Properly backfilling work not carried out.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No top soil	No top soil	NA
5d	Total area fully reclaimed and rehabilitated	5470square metre	Not done properly	Reclamation work not done properly.

5e	General remarks of inspecting officers on backfilling and reclamation etc.	-	-	proposed backfilling were not found properly.
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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).			Not given
6b	Area available for rehabilitation (ha) .	0	NA	ok
6c	afforestation done (ha).	0	NA	NA
6d	No. of saplings planted during the year	0	30 saplings within lease area and 150 saplings out side lease area.	In sidea of lease area nd out side of lease area on own land.
6e	Cumulative no .of plants	Not proposed	200	OK
6f	Any other method of rehabilitation	Not proposed	NA	NA
6g	Cost incurred on watch and care during the year	Not proposed	NA	NA
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	12500CUM	In fact systematic mining on proposed site not carried out.	Violation pointed out.

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	5470	Mine waste generated from mining left on at the site.	Deviation pointed out
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	Not proposed	not carried out	NA
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not proposed	not carried out	NA
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	Not proposed	Not carried out	NA
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	Not proposed	Not carried out	NA
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	Not proposed	not carried out	NA
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	Not proposed	Not carried out	NA

6p	Compliance of environmental monitoring (core zone and buffer zone)	-	-	-
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-	-	backfilling of last year was not systematically. Barrier plantation noticed.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	13846tonne	12255tonne	Nodeviation
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual / screening	Manual / screening	No deviation
7c	Different grade of mineral sorted out at mines.	13846 tonne	12255tonne all categorised as 40% to below 45% Al2O3	ok
7d	Any beneficiation process at mines	No only manual sorting and screening	No only manual sorting and screening	ok
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Mine produces all is used.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	Not proposed	Not applicable	NA
8b	Concurrent use or storage of topsoil	Not Applicable as there is no top soil.	NA	Lateritic soil is used
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Not proposed asd there is no proposal for separate dump for OB, Waste rock reject and fines	NA	ok
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	5470CUM	2700CUM	Proper reclamtion not carried out.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	yes	done	-
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	yes , 30 trees proposed every year.	10 planted.	-
8g	Survival rate	80%	75%	
8h	Water sprinkling on roads to control airborne dust	yes	done	

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Plantation has been done Plantation nearby area of mineral stack, near office premises and statutory barrier zone of Boundary pillar 10 to 6 were seen. Plantation over about 0.25 hect area own area adjacent to the lease area were also seen.
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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		Monthly returns received upto August,21. Annual Return were not received for 2019-20 and 2020-21.	Monthly returns received upto August,21. Annual Return were not received for 2019-20 and 2020-21. Violation pointed out for non submission of AR for 2019-20 and 2020-21.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Annual Return for thee year 2018-19	Information on Mining Engineer and Mining Geologist not given appropriately.	Violation of rule 46 pointed out.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	AR,18-19	Land use pattern furnished.	Land use pattern

9d	Scrutiny of Annual return on afforestation	AR,2018-19	Plantation on statutory boundary line particularly BPNo. 1 to BP No.5 were seen. Further plantation done in nearby area of mineral stock and nearby area of mine office were also seen.Plantion on own land adjacent to lease area were also seen	ok
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	AR,2018-19	There is no mineral reject generation in the mine as per approved document . Accordingly information givenin in the return are acceptable.	ok
9f	Scrutiny of Annual return on ROM stock and/or graded ore	AR,2018-19	Mineral stock seen in the mine and found correct.	ok
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	AR,2018-19	Sale Vallue Cement grade -Rs. 1086/66 per tonne, Chemical Grade Rs. 1700/-per tonne Ex Mine Price Cement grade -Rs. 807/59 per tonne, Chemical Grade Rs. 1700/-per tonne Cost of production Rs. 489/20	Although in compersion to sale vallue of cement grade bauxite indicated Ex Mine price is on lower side.
9h	Scrutiny of Annual return on fixed assets	AR 2018-19	given	ok
9k	Scrutiny of Annual return on mining machineries	AR,2018-19	Capacity of Front End Loader not indicated	

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)	30-SEP-21			
MCDR17	Rule 26(2)	30-SEP-21			
MCDR17	Rule 31(1)	30-SEP-21			
MCDR17	Rule 33	30-SEP-21			
	Rule 45(5) (a)	30-SEP-21			
	Rule 45(7) (i)	30-SEP-21			
MCDR17	Rule 46(a)	30-SEP-21			
MCDR17	Rule 55(1) (1	30-SEP-21			
MCDR17	Rule 11(1)	01-OCT-21			
	Rule 26(2)	01-OCT-21			
MCDR17	Rule 31(4)	01-OCT-21			
MCDR17	Rule 33	01-OCT-21			
	Rule 45(5) (a)	01-OCT-21			
	Rule 45(7) (i)	01-OCT-21			
	Rule 46	01-OCT-21			
MCDR17	Rule 55(1) (1	01-OCT-21			

Date :

(RAGHUBIR SHARAN GARG)

Indian Bureau of Mines