

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

Review and updation of Mining Plan REPORT

Jabalpur regional office

Mine file No : MP/ANUP/BX-4

Mine code : 07MPR38003

- (i) Name of the Inspecting : **SQ23**) **SANDEEP KUMAR SINGH**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine :
Official with
Designation
- (iv) Date of Inspection : 18-MAR-21
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **CHACHANDIH (148.181 HA)**
- (b) **Registration NO.** :
- (c) Category : A Other Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :
State : MADHYA PRADESH
District : SHAHDOL
Village : CHACHANDIH
Taluka : PUSPARAJGARH
Post office : RAJANDRAGRAM
Pin Code : 484881
FAX No. : 07629-268683
E-mail :
Phone : 07629-268683
- (f) Police Station : Rajandragram
- (g) First opening date : 28-DEC-06
- (h) Weekly day of rest : SUN
2. Address for : M.P.STATE MINING CORPORATION
correspondance : Block No. 1, Second Floor, Pariwash Bhawanm
Jail Road, Arera Hillsm Bhopal (M.P.)
3. (a) Lease Number : MPR2171
- (b) Lease area : 148.18
- (c) Period of lease : 30
- (d) Date of Expiry : 04-JUL-35
4. Mineral worked : BAUXITE Main

5. Name and Address of the

Lessee : M.P.STATE MINING CORPORATION
PARYAVAS BHAVAN ARERA
HILLS, BLOCK-1 JAIL ROAD
BHOPAL MADHYA PRADESH
Phone:0755-763391
FAX :0755-763394

Owner : M.P.STATE MINING CORPORATION
PARYAVAS BHAVAN ARERA
HILLS, BLOCK-1 JAIL ROAD
BHOPAL MADHYA PRADESH
Phone: N. A.
FAX : N. A.

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	26-MAY-05
Plan/Scheme of Mining	:	Modif.of approved Mining Plan	28-OCT-05
	:	Modif.of approved Mining Plan	10-MAR-08
	:	Mining Scheme rule 12 MCDR1988	17-FEB-12
	:	Mining Scheme rule 12 MCDR1988	25-FEB-16

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	NIL	
1b	Exploration over lease area for geological axis 1 or 2	NOT PROPOSED	NOT APPLICABLE	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NOT PROPOSED	NOT APPLICABLE	
1d	Balance area to be explored to bring Geological axis in 1 or 2		G-1-104.989, G3 - 4.392 HA \G -2 - 22 HA, BARREN AREA - 16.80 HA	
1e	Balance reserve as on 01/04/20		111-31,11,5022T 122-12,59,775	
1f	General remarks of inspecting officers on geology, exploration etc			No proposal are made in review year for explration .This is a hill top deposit of bauxite.soil is 0.25 to 2.5 mtr ,followed by 2 mtr laterite and 4-7 mtr bauxite.rock belongs to upper gondwana system of deccan trap.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	QUARRY 1,2,3,	QUARRY 1,2,3,	

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	YES, IN SOIL /laterite /MINERAL-bauxite	YES seperate benches made in soil, laterite, bauxite	TOP SOIL is LATERITIC SOIL.
2c	Stripping ratio or ore to OB ratio	1:1.74	1:1.74	
2d	Quantity of topsoil generation in m3	31,500 M3	30800 M3	
2e	Quantity of overburden generation in m3	63,280 m3	63,700m3	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	NOT APPLICABLE		BENCHES IN MINERAL SOIL / WASTE ARE FORMED.(4 BENCHES) THE MINE IS WORKED IN 3 PITS SIMELTANEOUS BACKFILLING HAS BEEN DONE IN MIED OUT AREA.Deviation was observed in pit 3 working violation pointed out.backfilling in pit -1 was not achieved as planned.violation was pointed out.Depth worked is upto 8.5.seperate benches in soil, laterite and bauxite are made as proposed.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	03	03	

3b	Quantity of ROM mineral production proposed	124936 T	124935 T	ORE IS SORTED AT FACE FROM WASTE.
3c	Recovery of sailable/usable mineral from ROM production	NO	NO	
3d	Quantity of mineral reject generation	NIL	NIL	
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	
3f	Quantity of sub grade mineral generation.	NA	NA	
3g	Grade of sub grade mineral generation	NA	NA	
3h	Manual / Mechanised method adopted for segregating from ROM	MANUAL	MANUAL	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NA	NA	
3j	Provision of drilling and blasting in mineral benches	YES	YES done.	
3k	Provision of mining machineries in mineral benches	YES	YES	1.9M3 excavator +TIPPER 16T.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	UPTO 6 MTR	YES suitable for mechanised mining.	

3m	Total area covered under excavation/pits	54		46 HECT	
3n	Ore to OB ratio for the pit/mine during the year.	1:1.74		1:1.74	
3o	Total area put in use under different heads at the end of year	PIT=54.00 INFRA 0.55		46.0 0.55 PLANT/MACH	
3p	Production of ROM mineral during the last five year period as applicable	17-18 124936 18-19 124936 19-20 124936		17-18 124930 18-19 124935 19-20 124935	
3q	General remarks of inspecting officers on method of mining etc.	NA		NA	The mines has been producing up to the proposals. Mining is done by shovel tripper for waste. Ore is sorted on face manually. 3/4 benches are made of upto 5mtr ht.deviation in working in pit 3 and backfilling in pit 1 observed.violation pointed out.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	BACK FILLING	BACK FILLING	
4b	Location of topsoil, OB and mineral reject dumps	NA	NA	BACK FILLING

4c	Number of dumps within lease area and outside of lease area	NIL	NIL	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	na	na	backfilling is done.
4e	Number of active and alive dumps.	NA	NA	
4f	Number of dead dumps.	NIL	02 nos.	
4g	Number of dumps established.	NIL	NIL	
4h	Whether Retaining wall or garland drain all along dumps are there.	NA	NA	
4i	Length of Retaining wall or garland drain all along dumps	NA	NA	
4j	Number of settling ponds	NP	ONE	AT GARLAND DRAIN AT MINE BOUNDARY
4k	Specific comments of inspecting officer on waste dump management	NA	NA	only backfilling done. temporary storage of soil is done for short period (lateritic soil) which is used for plantation

Solid Waste Management - Backfilling:

Sl.No.	Item	Proposals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	YES	full extraction upto lithomargic clay.	

5b	Area under backfilling of mined out area	2.1 HA	2 HA	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	YES	YES	CUNCURRENT USE
5d	Total area fully reclaimed and rehabilitated	NIL	NIL	
5e	General remarks of inspecting officers on backfilling and reclamation etc.	NA	NA	Plantation done on 2 hect. Area. Two large patches of approx 4 hect each have good growth of trees.-

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).		report not given .violation issued.	
6b	Area available for rehabilitation (ha) .	NOT PROPOSED	NOT APPLICABLE	
6c	afforestation done (ha).	na	na	
6d	No. of saplings planted during the year	2000 nos	2000 nos	on backfill
6e	Cumulative no .of plants	--	-----	there are no proposal for mined out benches.

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D		46 hectare pit area	approx 28 hect is already mined backfilled.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	2.1hec	2 hect	
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.	NP	NA	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	np	na	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	np	na	
6p	Compliance of environmental monitoring (core zone and buffer zone)	yes	done	

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		backfilling is done. plantation on backfilling is being done. two big patches of high growth trees are observed in mines. survival rate observed was upto 50% less than 70%. violation issued.
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	SEPERATION IN TO METAL/ CEMENT GRADE	SEPERATION IN TO METAL/ CEMENT GRADE	SEPERATION IN TO METAL/ CEMENT GRADE
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	MANUAL	MANUAL	
7c	Different grade of mineral sorted out at mines.	METAL AND CEMENT	METAL AND CEMENT	
7d	Any beneficiation process at mines	NIL	NIL	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	NA	NA	Ore is seperated in to two gradeS. BUT in year 19-20 ,all rom mined has metal grade.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	LATERITIC SOIL USE	LATERITIC SOIL USE	
8b	Concurrent use or storage of topsoil	CONCURRENT	CONCURRENT	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	NA	NA	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	YES	BEING DONE	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	YES	BEING DONE	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	ADDITIONAL	2000 PLANTATION	SURVIVAL IS LESS IN SOME PATCHES
8g	Survival rate	70%	50%	
8h	Water sprinkling on roads to control airborne dust	YES	YES	

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	WATER SPRINKLING DONE. BACKFILLING IS DONE ON LOT OF AREA.TWO PATCHES WITH HIGH GROWTH OF TREES IS 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	submitted		
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager		Mr yogesh pandey ME, Mr Anil kumar -geologist	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.		PIT- 45 HECT-INFRA-0.5	
9d	Scrutiny of Annual return on afforestation	2000 nos.	2000 PLANTS PLANTED	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)		NIL. NO PROPOSAL	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	14526.188 t ,) 40% to below 45% Al2O3 ,metal grade	STOCK given	

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost		SALE VALUE metal grade - 888/RS. Cost of Production - 760PER/T.
9h	Scrutiny of Annual return on fixed assets		FA-42,05,000 AT YEAR END. (Building + PLANT +M/C)
9k	Scrutiny of Annual return on mining machineries	AIR COMPRESSOR-3-358 cfm/116 cfm DRILL - 33MM,100 mm SHOVEL-1.84M3,water tanker-1,tipper 16 T 4 nos.	AIR COMPRESSOR-3-358 cfm/116 cfm DRILL -33MM,100 mm SHOVEL-1.84M3,water tanker-1,tipper 16 T 4 nos.

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)	28-APR-21			
MCDR17	Rule 26(2)	28-APR-21			
MCDR17	Rule 31(1)	28-APR-21			

Date :

(SANDEEP KUMAR SINGH)

Indian Bureau of Mines