

MCDR inspection REPORT

Jabalpur regional office

Mine file No : MP/JBP/BX-46

Mine code : 75MPR18008

- (i) Name of the Inspecting : **C004**) **ROBERT SIMON C**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Sh. Rajesh Shukla (Lease holder) and other staff
Official with
Designation
- (iv) Date of Inspection : 10-FEB-23
- (v) Prev.inspection date : 19-SEP-12

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **PADWAR (7.46 HECT.**
- (b) **Registration NO.** :
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address
State : MADHYA PRADESH
District : JABALPUR
Village : PADWAR
Taluka : SIHORA
Post office :
Pin Code :
FAX No. : N. A.
E-mail : N. A.
Phone : N. A.
- (f) Police Station :
- (g) First opening date : 06-NOV-93
- (h) Weekly day of rest :
2. Address for : SHIV SHAKTI TRADING CO.
correspondance H.NO.833 MAHARISHI VIDYAMANDIR ROAD.
DUBEY COLONY, KATNI (MP)
3. (a) Lease Number :
- (b) Lease area : 7.46 ha
- (c) Period of lease :50
- (d) Date of Expiry :30-SEP-43
4. Mineral worked : FIRECLAY Associated
LATERITE Associated
BAUXITE Main

I/11677/2023

5. Name and Address of the

Lessee : SHIV SHAKTI TRADING CO.
OPP. PIYUSH SCHOOL, BARHI
ROAD, KATNI MADHYA
PRADESH
Phone:N. A.
FAX :N. A.

Owner : KRISHNA MINES & MINERALS
C-4, BRINDAVAN COLONY,
JHANJHRI, NEAR MURLI DHAWA,
KATNI (M.P.) KATNI MADHYA
PRADESH
Phone: NA
FAX : NA

Mining Engineer

Name : A.K.GUPTA, Full Time
Qualification : Diploma in Mining
Appointment/
Termination date :

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	31-AUG-00
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	18-NOV-04
	:	Renewal under rule 24 MCR1960	05-NOV-14

I/11677/2023

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	14 Boreholes	Nil	Exploration was not done against proposal of 14 exploratory bore holes for the year 2021-22. Violation pointed out for the same under rule 11(1) of MCDR-2017
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not specified	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	G2-3.94 hect.	
1e	Balance reserve as on 01/04/20	Not specified	0.59 MillionTonnes (ROM)	
1f	General remarks of inspecting officers on geology, exploration etc			The lease area is falling under the Mahakoshal group formation overlain by laterite, below which Bauxite and fireclay found in association. All mineralization can be seen by naked eye. Local geology is follows same trend as regional geology. The area is mineralized for laterite, Bauxite and fireclay as shown on geological plan. The lease area is occupied by laterite capping for 2-3m thickness and below laterite bauxite and fireclay occurs is association.

I/11677/2023

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	LATITUDE :23°37' 24.8" TO 23°37' 25.8" LONGITUDE: 80° 13' 12.9" TO 80° 13' 14.9"	LATITUDE :23°37' 24.8" TO 23°37' 25.8" LONGITUDE: 80° 13' 12.9" TO 80° 13' 14.9"	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes	Separate benches in overburden and mineral maintained.	
2c	Stripping ratio or ore to OB ratio	1:0.03	1.0.13	
2d	Quantity of topsoil generation in m3	Nil	NIl	
2e	Quantity of overburden generation in m3	824	13852	Violation pointed out for the same under rule 11(1) of MCDR-2017.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			During this year about 806m2 area in Laterite was proposed to be excavated for avg.1.5m in the form of bench 1 and another 987m2 area in bauxite for avg. 4.75m height to achieve required production in the form of bench 2. But the development/excavation is exceeded wrt to approved plan. Hence, violation pointed out for the same under rule 11(1) of MCDR-2017

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	01	01	

I/11677/2023

3b	Quantity of ROM mineral production proposed	14564 T of bauxite & 7258 T of Laterite.	64650 Tonnes of ROM (bauxite) & 41960 ROM (Laterite)	Violation pointed out for the same under rule 11(1) of MCDR-2017.
3c	Recovery of sailable/usable mineral from ROM production	80%	80%	
3d	Quantity of mineral reject generation	Not proposed	28852 T	Violation pointed out for the same under rule 11(1) of MCDR-2017
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	NA	NA	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not proposed	Not done	
3j	Provision of drilling and blasting in mineral benches	Nil	Nil	

I/11677/2023

3k	Provision of mining machineries in mineral benches	Yes	Type of machinery Capacity of each unit No.of units Electrical/ Non-Electrical (specify) Used in opencast/ underground (specify) SHOVEL (HYDRAULIC) 2.000 CUM 2 Non Electrical Opencast BACK HOE 1.000 CUM 2 Non Electrical Opencast DUMPER 14.000 TONNE 5 Non Electrical Opencast DUMPER 9.000 TONNE 2 Non Electrical Opencast JEEP/TRACTOR 35.000 HP 3 Non Electrical Opencast MINE CARS 2.000 TONNE 2 Non Electrical Opencast PUMPS (ELEC.) 1500.000 L/MN 2 Electrical Opencast WATER TANKER 7500.000 LITRE 3 Non
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Details of Benches (Separately for mechanised and manual sections) In ore In OB/Waste (i) Number of Benches Mechanised 3 4 (ii) Average height (meters) Mechanised 5 5 (iii) Depth of the deepest working from adjacent ground (Meters) Mechanised 15 15
3m	Total area covered under excavation/pits	3.3 ha	4.6 ha
3n	Ore to OB ratio for the pit/mine during the year.	1:0.03	1.0.13
3o	Total area put in use under different heads at the end of year	5.76 ha	6.6 ha

I/11677/2023

3p	Production of ROM mineral during the last five year period as applicable	2016-17 - 143780 T 2017-18 - 104535 T 2018-19 - NIL 2019-20 - NIL 2020-21 - NIL	2016-17 - 18000 T 2017-18 - NIL 2018-19 - NIL 2019-20 - NIL 2020-21 - NIL
----	--	---	---

3q	General remarks of inspecting officers on method of mining etc.	As per the submitted Annual Return, production of 64650 Tonnes of ROM (bauxite) & 41960 ROM (Laterite) is excavated against the approved proposals of 14564 T of bauxite & 7258 T of Laterite. 28852 tonnes of mineral reject reported in AR against Nil proposals. Violation pointed out for the same under rule 11(1) of MCDR-2017
----	---	--

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate dumping of OB proposed	Separate dumping of OB maintained.	
4b	Location of topsoil, OB and mineral reject dumps	OB-southern portion of the lease	OB-southern portion of the lease	
4c	Number of dumps within lease area and outside of lease area	02	02	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	within UPL	within UPL	
4e	Number of active and alive dumps.	02	02	
4f	Number of dead dumps.	Nil	Nil	

I/11677/2023

4g	Number of dumps established.	Nil	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	garland drain- 810	garland drain-300 m
4i	Length of Retaining wall or garland drain all along dumps	garland drain- 810m	garland drain-300 m
4j	Number of settling ponds	Nil	Nil
4k	Specific comments of inspecting officer on waste dump management		

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.	Full extraction of mineral from mined out area before starting backfilling proposed	Full extraction of mineral from mined out area before starting backfilling adopted	
5b	Area under backfilling of mined out area	Nil	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Not proposed	Not done	
5d	Total area fully reclaimed and rehabilitated	Nil	Not done	

I/11677/2023

5e	General remarks of inspecting officers on backfilling and reclamation etc.	Full extraction of mineral from mined out area before starting backfilling proposed. Presently the lease area is not mature to start the backfilling process.
----	--	---

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	PMCP report for the year 2021-22 not furnished.	Violation pointed out for the same under rule 26(2) of MCDR-2017.
6b	Area available for rehabilitation (ha) .	Nil	Nil	
6c	afforestation done (ha).	Nil	PMCP report for the year 2021-22 not furnished.	Violation pointed out for the same under rule 26(2) of MCDR-2017.
6d	No. of saplings planted during the year	Nil	500	
6e	Cumulative no .of plants	Not specified	Not available	
6f	Any other method of rehabilitation	NA	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	NA	NA	

I/11677/2023

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	
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)	Nil	Nil	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			PMCP report for the year 2021-22 not furnished. Violation pointed out for the same under rule 26(2) of MCDR-2017.

 Mineral Conservation:

I/11677/2023

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM mineral dispatch	ROM mineral dispatch	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Not proposed	Nil	
7c	Different grade of mineral sorted out at mines.	Nil	<p>For use other than alumina and aluminium metal extraction</p> <p>Grades (% of Al₂O₃ content)</p> <p>Average Grade Opening stock at mine head (in tonne) Production (in tonne) Dispatches from mine head (in tonne) Closing stock at mine head (in tonne) Ex-mine price (in . Per Tonne)</p> <p>(a) Cement 26793.940 21810.000 2174.090 46429.850 500.00 (b) Abrasive 0.000 0.000 0.000 0.000 0.00 (c) Refractory 3998.940 0.000 24.980 3973.960 2500.00 (d) Chemical 0.000 0.000 0.000 0.000 0.00</p>	
7d	Any beneficiation process at mines	Nil	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			No beneficiation process adopted at mines.

I/11677/2023

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Nil	Nil	
8b	Concurrent use or storage of topsoil	NA	NA	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	OB dump proposed	OB dump maintained	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	OB dump proposed	OB dump maintained	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Nil	Nil	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Not specified	Nil	
8g	Survival rate	Nil	40% as per AR	
8h	Water sprinkling on roads to control airborne dust	Proposed	Carried out	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Aesthetic beauty in and around mine area is moderate and needs improvement.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
--------	------	-----------	-------------	---------

I/11677/2023

9a	Status of submission of Monthly and Annual returns	AR and MR submitted online.	AR and MR submitted online.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given	Manager SAMEER MISHRA Mining Engineer in charge SHREE RAJA BAYA Geologist in charge PART TIME AS REQUIRED	
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) Under forest Outside forest Total (i) Already exploited & abandoned by opencast (O/C) mining 0.000 0.000 0.000 (ii) Covered under current (O/C) Workings 0.000 4.600 4.600 (iii) Reclaimed/Rehabilitated 0.000 0.000 0.000 (iv) Used for waste disposal 0.000 2.000 2.000 (v) Occupied by plant, buildings, residential, welfare buildings & roads 0.000 1.000 1.000 (vi) Other Purpose () 0.000 0.000 0.000	
9d	Scrutiny of Annual return on afforestation	Given	(i) Number of trees planted during the year 500 nos (ii) Survival rate in percentage 40.00	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	28852 tonnes of mineral reject reported in AR against Nil proposals for the year 2021-22.		Violation pointed out for the same under rule 11(1) of MCDR-2017.

I/11677/2023

9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given	Production and Stocks of ROM ore at Mine-head (BAUXITE) Category Opening stock (in tonne) Production (in tonne) Closing stock (in tonne) (a) Open Cast Workings 11850.000 13150.000 25000.000 (b) Underground Workings 0.000 0.000 0.000 (c) Dump Workings 8107.000 51500.000 59517.000	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given	For use other than alumina and aluminium metal extraction Grades (% of Al ₂ O ₃ content) Average Grade Opening stock at mine head (in tonne) Production (in tonne) Dispatches from mine head (in tonne) Closing stock at mine head (in tonne) Ex-mine price (in . Per Tonne) (a) Cement 26793.940 21810.000 2174.090 46429.850 500.00 (b) Abrasive 0.000 0.000 0.000 0.000 0.00 (c) Refractory 3998.940 0.000 24.980 3973.960 2500.00 (d) Chemical 0.000 0.000 0.000 0.000 0.00	
9h	Scrutiny of Annual return on fixed assets	Nil	Nil	Violation pointed out for the same under rule 45(7) of MCDR-2017.

I/11677/2023

9k	Scrutiny of Annual return on mining machineries	Given	Type of machinery Capacity of each unit No.of units Electrical/ Non-Electrical (specify) Used in opencast/ underground (specify) SHOVEL (HYDRAULIC) 2.000 CUM 2 Non Electrical Opencast BACK HOE 1.000 CUM 2 Non Electrical Opencast DUMPER 14.000 TONNE 5 Non Electrical Opencast DUMPER 9.000 TONNE 2 Non Electrical Opencast JEEP/TRACTOR 35.000 HP 3 Non Electrical Opencast MINE CARS 2.000 TONNE 2 Non Electrical Opencast PUMPS (ELEC.) 1500.000 L/MN 2 Electrical Opencast WATER TANKER 7500.000 LITRE 3 Non
----	--	-------	---

I/11677/2023

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
Rule 11(1)	03-MAY-23				
MCDR17 Rule 11(4)	03-MAY-23				
Rule 26(2)	03-MAY-23				
Rule 27(2)	03-MAY-23				
MCDR17 Rule 31(4)	03-MAY-23				
MCDR17 Rule 33	03-MAY-23				
MCDR17 Rule 34(1)	03-MAY-23				
MCDR17 Rule 45(7) (a)	03-MAY-23				

Date :**(ROBERT SIMON C)**

Indian Bureau of Mines