

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

MCDR INSPECTION REPORT

Gandhinagar regional office

Mine file No : RAJ/UDP/CHINACLAY-5

Mine code : 32RAJ26006

- (i) Name of the Inspecting : **P022**) **PANKAJ KULSHRESTHA**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Shri Jai Shankar Gaur, Rep. of Lessee & Shri Najir, M
Official with
Designation
- (iv) Date of Inspection : 15/01/2024
- (v) Prev.inspection date : 23/02/2021

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **BANSLIYA**
- (b) **Registration NO.** : **IBM/6829/2011**
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address :
State : RAJASTHAN
District : UDAIPUR
Village : BANSLIYA
Taluka : GIRWA
Post office : ISWAL
Pin Code :
FAX No. : N A
E-mail : N A
Phone : 9414935745
- (f) Police Station :
- (g) First opening date : 11/07/1986
- (h) Weekly day of rest : SUN
2. Address for : VILLAGE-BANSILIYA POST-ISWAL
correspondance : TEH-GIRWAL
DISTT-UDAIPUR
3. (a) Lease Number : RAJ1990
- (b) Lease area : 123.2
- (c) Period of lease : 20
- (d) Date of Expiry : 02/08/2004
4. Mineral worked : OCHRE Associated
CHINA CLAY Main
BAUXITE Associated

5. Name and Address of the

Lessee : Shiv Shakti Minerals
 BHILWARA RAJASTHAN
 Phone:
 FAX :

Owner : SARASWATI DEVI GAUR
 W/O Sh Jai Shankar Gaur, D-
 4, Nagori Garden, Bhilwara,
 State - Rajasthan. UDAIPUR
 RAJASTHAN
 Phone: 9414935745
 FAX : N A

Mining Engineer
 Name : R C DEVPURA, Part Time
 Qualification : B E (Mining)
 Appointment/ : 04/02/2011
 Termination date

6. Date of approval of Mining	:	Existing rule 11 MCDR1988	08/12/1999
Plan/Scheme of Mining		Renewal under rule 22 MCR1960	10/10/2006
		Mining Scheme rule 12 MCDR1988	15/12/2011
		Modif.of approved Mining Plan	04/12/2013
		MP review under 17(1) MCR 2016	01/08/2018
		MP review under 17(1) MCR 2016	24/03/2021

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No exploration proposed during the year 2022-23.	No exploration carried Out.	
1b	Exploration over lease area for geological axis 1 or 2	Not specified	Not applicable	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Lessee himself	Lessee himself	
1d	Balance area to be explored to bring Geological axis in 1 or 2	G1- 25.87 ha, G2- 34.25 ha	G1- 25.87 ha, G2- 34.25 ha	
1e	Balance reserve as on 01/04/20	Red ochre-7352774 China Clay-1765149 Bauxite-175104	Red ochre-7352774 China Clay-1765149 Bauxite-175104	
1f	General remarks of inspecting officers on geology, exploration etc	NA	Further exploration may update the reserves of Bauxite.	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Pit no. 2 and pit no. 3 in the central part of the lease area.	Total four pits in the lease area in Govt. Waste land and working is confined in 2 pits.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes separate bench in o/b proposed	Yes provided	
2c	Stripping ratio or ore to OB ratio	1:2.33 for bauxite mining during the year 2022-23.	No bauxite mining reported during the year.	

2d	Quantity of topsoil generation in m3	No proposal	10 T during the year 2022-23, which was utilised in plantation program.
2e	Quantity of overburden generation in m3	Nil	Not applicable
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Not applicable	The opencast method of mining has been adopted in the area.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Pit No. 2 and 3	As above	
3b	Quantity of ROM mineral production proposed	Bauxite : 1623 t, Red Ochre : 35535 t and China Clay 14461 t during the year 2022-23	Bauxite : Nil, Red Ochre: 3298.655 t and China Clay:3100.00 t produced during the year 2022-23.	
3c	Recovery of sailable/usable mineral from ROM production	Bauxite: 1613t Mineral reject :691t,Ochre 35535t MIneral reject:3948t, China Clay14461 t Mineral Reject1607 t	5000 t of reject geeneration reported during China Clay mining.	
3d	Quantity of mineral reject generation	Total 6246 t of reject generation was expected from mining of China Clay ,Red Ochre and Bauxite during the year 2022-23.	Toal 5000 t of reject generation reported during the year 2022-23 as a resultant of China Clay mining.	
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	

3f	Quantity of sub grade mineral generation.	NA	Not applicable
3g	Grade of sub grade mineral generation	NA	Not applicable
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NA	Not applicable
3j	Provision of drilling and blasting in mineral benches	Yes, It was proposed small scale blasting for removal of Dolomite. It was proposed to drill 1.5 m deep hole with the help of Jack Hammer and blasting with gelatin/ANFO	Very occasional blasting practised during the year 2022-23.
3k	Provision of mining machineries in mineral benches	Yes	JCB deployed in mineral benches.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes, Bench height 3-6 meters, width More than 6 meters. Overall sploe -45 degree	As above, but at some places pit geomatry is not as per proposal
3m	Total area covered under excavation/pits	2.9254 hectare of area under mining.	To be checked from Drone image
3n	Ore to OB ratio for the pit/mine during the year.	1:2.334	No bauxite excavation reported during the year 2022-23.

3o	Total area put in use under different heads at the end of year	Area under Mining : 2.9254 h, Overburden Dump : 1.7327 h, Mineral Stack Yard: 0.8514 h, INfrastructure : 0.1021 h, Roads : 1.2470h, green belt 0.9h	Already exploited and abandoned by opencast (O-C) mining: 2.6 h, Covered under current (O-C) Workings: 2.945, Occupied by plant, buildings, residential, welfare buildings and roads : 0.002 h.																																																																																																																																																	
3p	Production of ROM mineral during the last five year period as applicable	<table border="0"> <tr> <td style="text-align: center;">Year</td> <td style="text-align: center;">Bauxite</td> <td style="text-align: center;">Year</td> <td style="text-align: center;">Bauxite</td> <td style="text-align: center;">China</td> </tr> <tr> <td></td> <td style="text-align: center;">China Clay</td> <td style="text-align: center;">Clay</td> <td></td> <td style="text-align: center;">Red OChre</td> </tr> <tr> <td></td> <td style="text-align: center;">Red</td> <td style="text-align: center;">2018-19:</td> <td></td> <td style="text-align: center;">0.0</td> </tr> <tr> <td></td> <td style="text-align: center;">OChre</td> <td style="text-align: center;">2019-20:</td> <td></td> <td style="text-align: center;">0.0</td> </tr> <tr> <td></td> <td style="text-align: center;">2018-19:</td> <td></td> <td></td> <td style="text-align: center;">12100 t</td> </tr> <tr> <td></td> <td style="text-align: center;">1048.32 t</td> <td></td> <td></td> <td style="text-align: center;">0.0</td> </tr> <tr> <td></td> <td style="text-align: center;">14699.88</td> <td style="text-align: center;">2020-21:</td> <td></td> <td style="text-align: center;">0.0</td> </tr> <tr> <td></td> <td style="text-align: center;">t</td> <td></td> <td></td> <td style="text-align: center;">500.0 t</td> </tr> <tr> <td></td> <td style="text-align: center;">33370.92 t</td> <td></td> <td></td> <td style="text-align: center;">14700 t</td> </tr> <tr> <td></td> <td style="text-align: center;">2019-20:</td> <td style="text-align: center;">2021-22:</td> <td></td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">1058.4 t</td> <td style="text-align: center;">2022-23:</td> <td></td> <td style="text-align: center;">0.0</td> </tr> <tr> <td></td> <td style="text-align: center;">14699.88 t</td> <td></td> <td></td> <td style="text-align: center;">0.0</td> </tr> <tr> <td></td> <td></td> <td style="text-align: center;">23000.7t</td> <td></td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">33988.68 t</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">2020-21:</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">1068.48 t</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">14994.72</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">t</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">35925.12</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">2021-22:</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">1512t</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">14269</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">t</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">35385t</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">2022-23:</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">1613 t</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">14461</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">t</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">35535 t</td> <td></td> <td></td> <td></td> </tr> </table>	Year	Bauxite	Year	Bauxite	China		China Clay	Clay		Red OChre		Red	2018-19:		0.0		OChre	2019-20:		0.0		2018-19:			12100 t		1048.32 t			0.0		14699.88	2020-21:		0.0		t			500.0 t		33370.92 t			14700 t		2019-20:	2021-22:				1058.4 t	2022-23:		0.0		14699.88 t			0.0			23000.7t				33988.68 t					2020-21:					1068.48 t					14994.72					t					35925.12					2021-22:					1512t					14269					t					35385t					2022-23:					1613 t					14461					t					35535 t				
Year	Bauxite	Year	Bauxite	China																																																																																																																																																
	China Clay	Clay		Red OChre																																																																																																																																																
	Red	2018-19:		0.0																																																																																																																																																
	OChre	2019-20:		0.0																																																																																																																																																
	2018-19:			12100 t																																																																																																																																																
	1048.32 t			0.0																																																																																																																																																
	14699.88	2020-21:		0.0																																																																																																																																																
	t			500.0 t																																																																																																																																																
	33370.92 t			14700 t																																																																																																																																																
	2019-20:	2021-22:																																																																																																																																																		
	1058.4 t	2022-23:		0.0																																																																																																																																																
	14699.88 t			0.0																																																																																																																																																
		23000.7t																																																																																																																																																		
	33988.68 t																																																																																																																																																			
	2020-21:																																																																																																																																																			
	1068.48 t																																																																																																																																																			
	14994.72																																																																																																																																																			
	t																																																																																																																																																			
	35925.12																																																																																																																																																			
	2021-22:																																																																																																																																																			
	1512t																																																																																																																																																			
	14269																																																																																																																																																			
	t																																																																																																																																																			
	35385t																																																																																																																																																			
	2022-23:																																																																																																																																																			
	1613 t																																																																																																																																																			
	14461																																																																																																																																																			
	t																																																																																																																																																			
	35535 t																																																																																																																																																			
3q	General remarks of inspecting officers on method of mining etc.	NA	The present status of method of mining may be considered as satisfactory.																																																																																																																																																	

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 O/B as per proposal.	The o/b is being dumped as per proposal.
4b	Location of topsoil, OB and mineral reject dumps	In between Pit 1 and Pit 2	As per proposal
4c	Number of dumps within lease area and outside of lease area	One dump within the lease area	As per proposal
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL	As per proposal
4e	Number of active and alive dumps.	One active o/b dump.	As per proposal
4f	Number of dead dumps.	NA	No dead dump in the area.
4g	Number of dumps established.	NA	No such proposal
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes, retaining wal/garland drain proposed.	As per proposal
4i	Length of Retaining wall or garland drain all along dumps	82 meters	As above
4j	Number of settling ponds	No such proposal	Not applicable
4k	Specific comments of inspecting officer on waste dump management	NA	The present status of waste dump management may be considered as satisfactory.

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.	Part extraction of mineral	As above	

5b	Area under backfilling of mined out area	NA	Not applicable
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Yes	Yes, top soil whenever encountered is being utilised in plantation program.
5d	Total area fully reclaimed and rehabilitated	No such proposal	Area no matured for fully reclamation and rehabilitation.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	NA	The area is not matured for backfilling and reclamation activities so present status may be considered as satisfactory.

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, as per rule	Yes submitted	
6b	Area available for rehabilitation (ha) .	Nil	Not applicable	
6c	afforestation done (ha).	No afforestation proposaed on reclaimed area as such there is no reclaimed area.	Not applicable	
6d	No. of saplings planted during the year	NA	Not applicable	
6e	Cumulative no .of plants	650	Aprox. 200 tress as a result of plantation program by lessee.	
6f	Any other method of rehabilitation	NA	Not applicable	
6g	Cost incurred on watch and care during the year	Rs. 25000 during the year 2022-23.	Total Rs. 28000 spent on plantation during the year 200-23	

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No such proposal	Not applicable, No such voids available for backfilling
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No such proposal	Not applicable
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	No such proposal	Not applicable
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No such proposal during the year 2022-23.	Not applicable.
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	NA	Not applicable
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Yes, It was proposed to plant 50 saplings per year.	Planted 50 saplings during the eyar 2022-23.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NA	Not applicable
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NA	Not applicable

6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes	Yes, as per conditions imposed by concerned authority
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	NA	The present status of PMCP compliance and progressive closure operation may be considered as satisfactory.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM mineral dispatch from lease area.	No bauxite excavated during the year 2022-23.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No grade-wise sorting proposed/	Not applicable	
7c	Different grade of mineral sorted out at mines.	No such proposal	Not applicable	
7d	Any beneficiation process at mines	No such proposal	Not applicable	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	NA	The overall status of Mineral conservation may be considered as satisfactory. No bauxite excavated during the year 2022-23.	

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No such proposal.	Not applicable. Whenever top soil is encountered (in a very very small quantity) it is utilised in plantation program.	

8b	Concurrent use or storage of topsoil	No such proposal	Not applicable
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes,	Yes, separate dump for overburden exists in the area.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No such proposal	Not applicable
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No such proposal	The area is not matured for restoration, reclamation and rehabilitation of land affected by mining.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Existing plantation : 650 Nos. ,Area under plantation : 0.6813 hectare.	The rainfall is not sufficient, due to water scarcity the survival rate is aprox. 50%..
8g	Survival rate	50%	As above
8h	Water sprinkling on roads to control airborne dust	Yes	Yes, as per proposal
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	NA	The present status of aesthetic beauty in and around mines area may be considered as satisfactory.

Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Yes	Yes, as per rule	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mines Manager : Shri Mohammad Nazir Sheikh, Mining Engineer : Shri Mohammad Nazir Sheikh, Geologist : Shri Vikas Kumar	As above
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Already exploited and abandoned by opencast (O-C) mining: 2.9 hect. , Covered under current (O-C) Workings : 2.654Hect. , Occupied by plant, buildings, residential, welfare buildings and roads: 0.002 hect.	As above
9d	Scrutiny of Annual return on afforestation	Number of trees planted during the year: 500 (WML), 50(OML) Total no. of trees at the end of the year : 580	Aprox 200 trees observed in the area as a resut of plantation program
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil for Bauxite	As above
9f	Scrutiny of Annual return on ROM stock and/or graded ore	China Clay : 3100 t, Red Ochre:3298.65 t and Bauxite : Nil	As above
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex-mine price (Per-Tonne)China CLay : Rs. 170.83, Ochre : Rs. 208.33 and Bauxite Rs. Nil	As above

9h	Scrutiny of Annual return on fixed assets	At the beginning of the year : Rs. 2600000, Net Closing Balance Rs. 5651000 with Market value Rs. 4151000	As above.
9k	Scrutiny of Annual return on mining machineries	OTHERS (NON-ELEC.) Capacity of each type of machinery- 75 : 1, OTHERS (NON-ELEC.) Capacity of each type of machinery- 32 : 1,	One JCB, Dumpe and a tractor Trolley available with the mine operator.

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)	09/02/2024			

Date :

(PANKAJ KULSHRESTHA)

Indian Bureau of Mines