

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

**MCDR inspection REPORT
Jabalpur regional office**

Mine file No : MP/SATNA/LST-333

Mine code : 38MPR35309

- (i) Name of the Inspecting : **C004**) **ROBERT SIMON C**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine :
Official with
Designation
- (iv) Date of Inspection : 17-MAR-21
- (v) Prev.inspection date : 14-JAN-20

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **BIRHULI (56.20 HA)**
- (b) **Registration NO.** :
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :
State : MADHYA PRADESH
District : SATNA
Village : BIRHULI
Taluka : RAGHURAJ NAGAR
Post office : SAGMANIA
Pin Code : 485114
FAX No. : NA
E-mail : NA
Phone : NA
- (f) Police Station : KOLGAWAN
- (g) First opening date : 15-JUN-09
- (h) Weekly day of rest :
2. Address for : M/S BIRLA CORPORATION LTD
correspondance : SATNA CEMENTS WORKS
P.O. BIRLA VIKAS, SANTA (M.P.) 485005
3. (a) Lease Number : MPR2242
- (b) Lease area : 56.27
- (c) Period of lease : 20
- (d) Date of Expiry : 29-DEC-25
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : BIRLA CORPORATION LTD
 SATNA CEMENTS WORKS P.O.
 BIRLA VIKAS, SANTA (M.P.)
 485005 SATNA MADHYA PRADESH
 Phone:N. A.
 FAX :N. A.

Owner : BIRLA CORPORATION LIMITED
 BIRLA BUILDING, 9/1,
 R.N.MUKHERJEE ROAD
 KOLKATA WEST BENGAL
 Phone: N. A.
 FAX : N. A.

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	21-NOV-03
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	04-MAR-13
		Mining Scheme rule 12 MCDR1988	01-AUG-14
		MP review under 17(1) MCR 2016	27-MAR-19

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	Area already Explored in G1	Area already Explored in G1	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	nil	nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	
1e	Balance reserve as on 01/04/20	Proved (111) 14.42 MT	Proved (111) 14.76 MT	
1f	General remarks of inspecting officers on geology, exploration etc			The occurrence of limestone in lease area is stratigraphically controlled and is associated with Nagod limestone of Bhandar group of Vindhyan super group

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	The development was proposed in three areas North west, Southern part,North East portion of the lease area.	The development was carried out in three areas North west, Southern part,North East portion of the lease area.	

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches in Top soil, OB & mineral proposed	Maintained as per the proposals
2c	Stripping ratio or ore to OB ratio	1: 0.04	1: 0.11
2d	Quantity of topsoil generation in m3	9400 M3	11270 M3
2e	Quantity of overburden generation in m3	15000 M3	17980 M3
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	01	01	
3b	Quantity of ROM mineral production proposed	600000 Tonnes	257,775 Tonnes	violation pointed out
3c	Recovery of sailable/usable mineral from ROM production	Entire ROM is proposed to be dispatched to captive plant	Entire ROM is dispatched to captive plant	
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.	Nil	Nil
3g	Grade of sub grade mineral generation	NA	NA
3h	Manual / Mechanised method adopted for segregating from ROM	No Proposals	Nil
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No analysis or study proposed	No analysis or beneficiation study carried out
3j	Provision of drilling and blasting in mineral benches	proposed	as per proposal
3k	Provision of mining machineries in mineral benches	proposed	as per proposal
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	yes	height of benches is suitable for method of mining
3m	Total area covered under excavation/pits	32.70 Ha	31.25 Ha
3n	Ore to OB ratio for the pit/mine during the year.	1:0.04	1:0.11
3o	Total area put in use under different heads at the end of year	33.00Ha	31.25 Ha

3p	Production of ROM mineral during the last five year period as applicable	Yr-2019-20 - 600000	Yr-2019-20 - 257775	Yr-2018-19 - 408680	Yr-2017-18 - 391678	Yr-2016-17 - 333100	Yr-2015-16 - 368545
		600000					
		Yr-2016-17 - 600000					
		Yr-2015-16 - 600000					

3q	General remarks of inspecting officers on method of mining etc.						mechanized opencast mining method with deep hole drilling and blasting is being carried out in the mine. The overburden after drilling and blasting in bench is excavated by deployment of back-hoe shovel and tipper combination.
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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)	proposed	South Eastern side dump & OB dump	-Soil
4b	Location of topsoil, OB and mineral reject dumps	proposed	South Eastern side dump & OB dump	-Soil
4c	Number of dumps within lease area and outside of lease area	02 within lease	02 within lease	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	outside ultimate pit limit	outside ultimate pit limit	

4e	Number of active and alive dumps.	01	01	
4f	Number of dead dumps.	nil	nil	
4g	Number of dumps established.	nil	nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	garland drain proposed	garland drain not maintained properly	violation pointed out
4i	Length of Retaining wall or garland drain all along dumps	not proposed	garland drain not maintained properly	violation pointed out
4j	Number of settling ponds	not proposed	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.	not proposed	nil	
5b	Area under backfilling of mined out area	NA	NA	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	to be used in plantation	used in plantation	
5d	Total area fully reclaimed and rehabilitated	nil	nil	

5e	General remarks of inspecting officers on backfilling and reclamation etc.	area not mined out to carry backfilling
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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	not submitted	violation pointed out
6b	Area available for rehabilitation (ha) .	nil	nil	
6c	afforestation done (ha).	nil	nil	
6d	No. of saplings planted during the year	nil	nil	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	nil	nil	
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)Afforestati on on backfilled area	NA	NA	

6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NA	NA
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	NIL	NIL
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	nil	nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	proposed	as per proposal
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM Mineral dispatch proposed	ROM Mineral dispatch carried out	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	not proposed	nil	

7c	Different grade of mineral sorted out at mines.	NA	NA
7d	Any beneficiation process at mines .	No beneficiation process at mines proposed	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	9400 M3 of topsoil removal proposed	11270 M3 of topsoil removal done	
8b	Concurrent use or storage of topsoil	yes	as per proposal	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	01 OB & 01 topsoil dump proposed (temporary dumps)	01 OB & 01 topsoil dump maintained (temporary dumps)	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	proposed	as per proposal	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	proposed	adopted as per proposal	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	not proposed	nil	
8g	Survival rate	NA	NA	
8h	Water sprinkling on roads to control airborne dust	proposed	as per proposal	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			aesthetic beauty in and around mines needs to be improved.

Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	yes	M.R. Submitted till March 2021 A.R. submitted for 19-20	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	yes	Manager SHRI KUMAR RAJAN Mining Engineer in charge SHRI VASHISHTH NARAYAN SINGH Geologist in charge SHRI ASIM CHATTOPADHYAY	

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	yes	Covered under current (O/C) Workings 31.250 Used for waste disposal 0.200 Other Purpose (non excavated land) 24.820	
9d	Scrutiny of Annual return on afforestation	nil	nil	violation pointed out
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	nil	nil	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	nil	nil	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	yes	Ex-Mine price Rs. 275	
9h	Scrutiny of Annual return on fixed assets	nil	nil	
9k	Scrutiny of Annual return on mining machineries		DUMPER 60.000 TONNE-2 nos. Non Electrical SHOVEL (HYDRAULIC) 6.000 CUM-1no Non Electrical ROCK DRILL (NON-ELEC.) 100.000 MM-1no Non Electrical	

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)	10-MAY-21			
MCDR17	Rule 26(2)	10-MAY-21			
MCDR17	Rule 45(7) (a)	10-MAY-21			

Date :

(ROBERT SIMON C)

Indian Bureau of Mines