

MCDR inspection REPORT

Jabalpur regional office

Mine file No : MP/SATNA/LST-333

Mine code : 38MPR35309

- (i) Name of the Inspecting : **M009**) **SUDIP RANJAN MAZUMDAR**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Shri Rajesh Chaubey, Mines Agent
Official with
Designation
- (iv) Date of Inspection : 18-AUG-23
- (v) Prev.inspection date : 20-SEP-22

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **BIRHULI (56.20 HA)**
- (b) **Registration NO.** :
- (c) Category : A Fully Mechanized
- (d) Type of Working : Opencast
- (e) Postal address
State : MADHYA PRADESH
District : SATNA
Village : BIRHULI
Taluka : RAGHURAJNAGAR
Post office : SAGMANIA
Pin Code : 485114
FAX No. : NA
E-mail : Kumar.rajana@birlacorp.com
Phone : 7611105034
- (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 Ha
(c) Period of lease : 30 years
(d) Date of Expiry : 02.01.2036
4. Mineral worked : LIMESTONE Main

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5. Name and Address of the

Lessee : BIRLA CORPORATION LTD
SATNA CEMENTS WORKS
P.O. BIRLA VIKAS, SATNA
(M.P.) 485005 SATNA
MADHYA PRADESH
Phone : 7611105034
FAX : NA

Owner/Nominated: SHRI SANDIP GHOSE
Owner 1, SHAKESPEARE
SARANI, A.C. MARKET
(2ND FLOOR), KOLKATA
WEST BENGAL-700071
Phone: 033-66033379
FAX : N. A.
DATE OF APPOINTMENT: 01.01.2023
Email: coordinator@birlacorp.com

AGENT : SHRI RAJESH SABHANAND CAUBEY
BIRLA COLONY, SATNA-485005
MOBILE NO- 9998967315
DATE OF APPOINTMENT: 16.01.2020
EMAIL: rajesh.chaubey@birlacorp.com

MANAGER : SHRI KUMAR RAJAN
BIRLA COLONY, SATNA-485005
MOBILE NO- 7611105034
DATE OF APPOINTMENT-01.02.2020
EMAIL- kumar.rajana@birlacorp.com

MINING ENGINEER
NAME : SHRI VASHISHTH NARAYAN SINGH
QUALIFICATION : B.E. (MINING)
APPOINTMENT/ : 20.11.2016
TERMINATION DATE

GEOLOGIST
NAME : SHRI VIKAS MOHAN
QUALIFICATION : M.Sc. (GEOLOGY)
APPOINTMENT/ : 01.11.2017
TERMINATION DATE

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6. Date of approval of Mining Plan/Scheme of Mining	:	Fresh under rule 22 MCR1960	21-NOV-03
		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

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PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Not proposed	Nil	Nil
1b	Exploration over lease area for geological axis 1 or 2	In 2022-23, there was no proposal for exploration.	Nil	Nil
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not proposed	Nil	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not proposed	Nil	Entire area has been explored under G1 level of exploration
1e	Balance reserve as on 01/04/20	At the beginning of the year 1.4.2022, reserves was 13734157 tones and resources under 211 category of UNFC was 1110000 tones.	Depletion during the year 2022-23 was 596151 tones. Balance reserves as on 01.04.2023 is 13138006 and resources is 1110000 tones	Reserves / Resources figures as submitted in the annual return for 2022-23.
1f	General remarks of inspecting officers on geology, exploration etc		The entire lease area has been explored in G1 level.	Nil

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	In 2022-23, development was proposed from Eastern and southern side of lease at three different location of Pit A Proposed coordinates of these locations are as follows: Location 1 between coordinates 2722934N, 489502E to 2723301N, 489076E; Location 2 between coordinates 2723205N, 489278E to 2723473N, 489462E and in location 3 between coordinates 2723278N, 489674E to 2723103N, 489974E	In 2022-23, development carried out in South and East side of the lease in Pit A but from different locations. The coordinates of actual location developed are as follows: Location 1 between coordinates 2723021N, 489098E to 2723057N, 489493E. Location 2 between coordinates 2723253N, 489306E to 2723352N, 489611E and in location 3 between coordinates 2723170N, 489921E to 2722993N, 489936E.	The deviation has been pointed out to lessee through violation letter.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches in topsoil overburden and mineral has been proposed	Separate benches in topsoil overburden and mineral has been maintained	Nil
2c	Stripping ratio or ore to OB ratio	1:0.077	1:0.21	Nil
2d	Quantity of topsoil generation in m3	14900 cum	8446 cum	Nil
2e	Quantity of overburden generation in m3	33900 cum	119640 cum	Nil

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2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	In 2022-23, development carried out in South and East side of the lease in Pit A but from different locations. The deviation has been pointed out to lessee through violation letter.	Nil
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One Pit, Pit-A	One Pit, Pit-A	Nil
3b	Quantity of ROM mineral production proposed	In 2022-23, ROM production proposed was 600000 tones	In 2022-23, actual ROM production was 596151 tones	Nil
3c	Recovery of sailable/usable mineral from ROM production	In 2022-23, saleable ore production proposed was 600000 tones	In 2022-23, saleable ore production proposed was 596151.000 tones	Nil
3d	Quantity of mineral reject generation	Not proposed	Nil	Nil
3e	Grade of mineral rejects generation and threshold value declared.	Not proposed	Nil	Nil
3f	Quantity of sub grade mineral generation.	Not proposed	Nil	Nil
3g	Grade of sub grade mineral generation	Not proposed	Nil	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Not proposed	Nil	Nil
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not proposed	Nil	Nil

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3j	Provision of drilling and blasting in mineral benches	Proposed	Carried out	Nil
3k	Provision of mining machineries in mineral benches	Yes	Yes	Nil
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes suitable	Yes suitable	Nil
3m	Total area covered under excavation/pits	Total area proposed under excavation /pits at the end of plan period 2023-24 is 38.40 Ha	Lease area (surface area) utilization as at the end of year (hectares) as reported in annual return for 2022-23 in incorrect. The deviation has been pointed out to lessee through violation letter	Nil
3n	Ore to OB ratio for the pit/mine during the year.	1:0.077	1:0.21	Nil
3o	Total area put in use under different heads at the end of year	Total area proposed to be put in use under different heads at the end of plan period 2023-24 is 39.88 Ha	Lease area (surface area) utilization as at the end of year (hectares) as reported in annual return for 2022-23 in incorrect. The deviation has been pointed out to lessee through violation letter.	Nil
3p	Production of ROM mineral during the last five year period as applicable	2022-23: 600000 tones 2021-22: 600000 tones 2020-21: 600000 tones 2019-20: 600000 tones 2018-19: 600000 tones	2022-23: 596151 tones 2021-22: 595317 tones 2020-21: 430526 tones 2019-20: 257775 tones 2018-19: 408680 tones	Nil
3q	General remarks of inspecting officers on method of mining etc.		ROM production quantity during the year 2022-23 was within the proposed limit.	Nil

Solid Waste Management - Dumping:

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Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Top Soil shall be stacked and utilized in topping of the backfilled area. OB shall be utilized for backfilling, There will be no generation of Mineral Reject.	Top Soil -Stacking and using in topping of the backfilled area. OB- concurrent backfilling Mineral Reject-Nil	Nil
4b	Location of topsoil, OB and mineral reject dumps	Top Soil shall be stacked and utilized in topping of the backfilled area. OB shall be utilized for backfilling, There will be no generation of Mineral Reject.	Top Soil -Stacking and using in topping of the backfilled area. OB- concurrent backfilling Mineral Reject-Nil	Nil
4c	Number of dumps within lease area and outside of lease area	Except temporary dumping, the simultaneous generated OB/waste will be used for simultaneous backfilling for the mined out area in western part of the pit.	One temporary waste dump within lease area	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Not proposed	Outside the UPL	Nil
4e	Number of active and alive dumps.	Not proposed	Nil	Nil
4f	Number of dead dumps.	Not proposed	Nil	Nil
4g	Number of dumps established.	Not proposed	Nil	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	Not proposed	Nil	Nil

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4i	Length of Retaining wall or garland drain all along dumps	Not proposed	Nil	Nil
4j	Number of settling ponds	Not proposed	Nil	Nil
4k	Specific comments of inspecting officer on waste dump management		Backfilling done in western part of the pit at different location other than proposed location and also along the northern part of the lease boundary where there was no proposal for backfilling. The deviation has been pointed out to lessee through violation letter.	Nil

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.	Backfilling proposed in the western part of the pit.	Backfilling done in western part of the pit at different location other than proposed location and also along the northern part of the lease boundary where there was no proposal for backfilling.	The deviation has been pointed out to lessee through violation letter.
5b	Area under backfilling of mined out area	0.27 Ha.	1.09 Ha.	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Proposed	Carried out	Nil
5d	Total area fully reclaimed and rehabilitated	Not Proposed	Nil	Nil

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5e	General remarks of inspecting officers on backfilling and reclamation etc.	Backfilling done in western part of the pit at different location other than proposed and also along the northern part of the lease boundary. The deviation has been pointed out to lessee through violation letter.	Nil
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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).	The holder of a mining lease shall submit to the competent authority a yearly report as per the format specified by the Indian Bureau of Mines, before 1st day of July report every year	The annual return on PMCP has been submitted timely.	Nil
6b	Area available for rehabilitation (ha) .	Not Proposed	Nil	Nil
6c	afforestation done (ha) .	Not specified	3.27 Ha	Nil
6d	No. of saplings planted during the year	275 nos	8600 Nos of sapling planted	Nil
6e	Cumulative no .of plants	Not specified	16200 Nos	Nil
6f	Any other method of rehabilitation	Not Proposed	Nil	Nil
6g	Cost incurred on watch and care during the year	Not Proposed	Rs 926800	Nil

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6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	2730m2 * 18-20m	2730m2 * 18-20m	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	0.27 Ha	1.09 Ha.	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	Not Proposed	nil	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not Proposed	Nil	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Not Proposed	Nil	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Not Proposed	Nil	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Not Proposed	Nil	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Not Proposed	Nil	Nil

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6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposed	Carried out	Nil
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		Backfilling done in western part of the pit at different location other than proposed and also along the northern part of the lease boundary. The deviation has been pointed out to lessee through violation letter.	Nil

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM dispatch	ROM dispatch	Nil
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Not Proposed	nil	Nil
7c	Different grade of mineral sorted out at mines.	Not Proposed	Nil	Nil
7d	Any beneficiation process at mines	Not Proposed	Nil	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		ROM mineral has been dispatch as proposed	Nil

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	Proposed	Carried out	Nil
8b	Concurrent use or storage of topsoil	Proposed	Carried Out	nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Not Proposed	Nil	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Backfilling proposed in the western part of the pit.	Backfilling done in western part of the pit at different location other than proposed and also along the northern part of the lease boundary.	The deviation has been pointed out to lessee through violation letter.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Backfilling of 0.27 Ha was proposed	Backfilling over 1.09 Ha was done	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Not specified	8600 Nos of sapling planted within lease area	Nil
8g	Survival rate	Not proposed	Survival rate : 70%	Nil
8h	Water sprinkling on roads to control airborne dust	Proposed	Carried out	Aesthetic beauty in and around mine area is maintained.

Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	Annual return for 2022-23 was submitted on 26.06.2023. Monthly returns for 2022-23 has been submitted timely.	Annual return for 2022-23 was submitted on 26.06.2023. Monthly returns for 2022-23 has been submitted timely.	Nil
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer, Geologist and Manager have been employed in the mines.	Mining Engineer, Geologist and Manager have been employed in the mines.	Nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Lease area (surface area) utilization as at the end of year (hectares) reported in annual return for 2022-23 in incorrect. The deviation has been pointed out to lessee through violation letter.	Lease area (surface area) utilization as at the end of year (hectares) reported in annual return for 2022-23 in incorrect. The deviation has been pointed out to lessee through violation letter.	Nil
9d	Scrutiny of Annual return on afforestation	8600 Nos of sapling planted within lease area	8600 Nos of sapling planted within lease area	Nil

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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
Rule 45(7)	06-SEP-23				
MCDR17 Rule 11(1)	06-SEP-23				

Date :**(SUDIP RANJAN MAZUMDAR)**

Indian Bureau of Mines