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MCDR inspection REPORT

Jabalpur regional office

Mine file No : MP/SATNA/LST-333

Mine code : 38MPR35309

- (i) Name of the Inspecting : **SQ25**) **IBRAHIM SHARIEF**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Shri Rajesh Chaubey, Mine Head
Official with Designation
- (iv) Date of Inspection : 20-SEP-22
- (v) Prev.inspection date : 17-MAR-21

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **BIRHULI (56.20 HA)**
- (b) **Registration NO.** : **IBM/4349/2011**
- (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 : Sunday
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

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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

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PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No exploration was proposed during the year 2021-22	Nil	
1b	Exploration over lease area for geological axis 1 or 2	In 2021-22, there was no proposal for exploration.	Nil	Detailed Exploration has already been completed in G1 level
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No exploration was proposed during the year 2021-22	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not proposed	Nil	Entire lease area has been explored in G1 level of exploration
1e	Balance reserve as on 01/04/20	14.33 million Tonnes	As on 1.4.2022, Reserves were 14.84 Million tones and Resources under 211 category of UNFC was 1.1 Million tones.	
1f	General remarks of inspecting officers on geology, exploration etc			Entire area was explored in G1 scale.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	Working proposed at locations 489400E to 489600E and 272300N to 223400E	Development is found within proposed area	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches in top soil, HOB and limestone proposed 1:0.068	Separate benches observed in Soil, HOB and limestone 1:0.017	
2c	Stripping ratio or ore to OB ratio			

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2d	Quantity of topsoil generation in m3	12500 cum	28,374 cum	
2e	Quantity of overburden generation in m3	32693	217560	Backlog development is done during the year
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		Development has been carried out as per the proposals	

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Workings proposed in single PIT, Pit-A	Workings observed in single PIT i.e PIT A	
3b	Quantity of ROM mineral production proposed	Proposed ROM as per mining plan for the period 2021-22 is 600000	production of ROM is 595317 during the year 2021-22	
3c	Recovery of sailable/usable mineral from ROM production	97%	100%	
3d	Quantity of mineral reject generation	Not proposed	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	Not applicable	Nil	
3f	Quantity of sub grade mineral generation.	No proposal	Nil	
3g	Grade of sub grade mineral generation	No proposal	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	Not proposed	Nil	

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3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not proposed	Nil
3j	Provision of drilling and blasting in mineral benches	Deep hole Drilling & Blasting is proposed to be carried out in mineral benches	Drilling & Blasting is being carried out in mineral benches
3k	Provision of mining machineries in mineral benches	Yes Deployment of machineries like Excavator, Dumper, Drilling machine, Wheel loader is proposed in mineral benches	Said machineries are deployed
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes 6 meters bench height is Suitable for method of working.	Yes Suitable
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	34.40 ha
3n	Ore to OB ratio for the pit/mine during the year.	1:0.0688	1:0.0688
3o	Total area put in use under different heads at the end of year	Proposed the area of 9.72ha to be covered under pits during the plan period	As per the annual returns 8.12 ha developed under pits
3p	Production of ROM mineral during the last five year period as applicable	2017-18 600000 2018-19 600000 2019-20 600000 2020-21 600000 2021-22 600000	2017-18 391678 2018-19 408680 2019-20 257775 2020-21 430526 2021-22 595317

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3q	General remarks of inspecting officers on method of mining etc.	Fully Mechanised open cast method of mining with deep hole drilling and blasting is being adopted
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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)	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	
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	
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	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Not proposed	Outside the UPL	
4e	Number of active and alive dumps.	Not proposed	Nil	

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4f	Number of dead dumps.	Not proposed	nil	
4g	Number of dumps established.	Not proposed	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	Not proposed	Nil	
4i	Length of Retaining wall or garland drain all along dumps	Not proposed	nil	
4j	Number of settling ponds	Not proposed	Nil	
4k	Specific comments of inspecting officer on waste dump management			Waste dumping is carried out as proposed.

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	Not proposed	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Proposed stacking of top soil	Utilizing top soil for stacking and plantation	
5d	Total area fully reclaimed and rehabilitated	no back filling proposed during the period	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			No backfilling is found as no area is matured for backfilling

Progressive Mine Closure Plan:

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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	
6b	Area available for rehabilitation (ha) .	Not Proposed	Nil	
6c	afforestation done (ha) .	Not specified	1.20ha	
6d	No. of saplings planted during the year	275 nos	2400 Nos of sapling planted during the year	20000saplings planted outside the lease area also
6e	Cumulative no .of plants	Not specified	7600 Nos	
6f	Any other method of rehabilitation	Not Proposed	Nil	
6g	Cost incurred on watch and care during the year	Not Proposed	About Rs 500000	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal	Nil	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal	Nil	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati-on on backfilled area	No proposal	Nil	

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6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	Nil	
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	No proposal	Nil	
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	No proposal	Nil	
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	No proposal	Nil	
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	No proposal	Nil	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Environmental monitoring is to be carried out for Air, water, Noise etc.	Environmental monitoring is being carried out quarterly	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Plantation is being carried out to improve aesthetic beauty.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM produced to be dispatched during the 2021-22	Mineral dispatch during the year is 5,95,317 T	

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7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Not proposed	Nil	
7c	Different grade of mineral sorted out at mines.	Not proposed	Nil	
7d	Any beneficiation process at mines .	Not proposed	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			ROM mineral has been dispatch as proposed

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Separate removal of top soil proposed 74890Cu.m	Top soil excavated during the RY and stacked separately and used for plantation	
8b	Concurrent use or storage of topsoil	Top soil proposed for stacking and utilised for plantation	Separately stacking top soil and using for the plantation too	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposed separate dump for OB	Separate dump for OB is being carried out	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not proposed	Nil	

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8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not proposed	Nil	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Not specified	2400 saplings planted during the year	
8g	Survival rate	Not proposed	about 70%	
8h	Water sprinkling on roads to control airborne dust	Proposed water sprinkling on roads	A 12KLD water tanker along with static sprinkling system along the main haul road installed	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Aesthetic beauty in and around mine area is maintained.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly and Annual Returns to be submitted in time	Monthly and Annual Returns submitted in time	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer in charge SHRI VASHISHTH NARAYAN SINGH Geologist in charge SHRI VIKAS MOHAN	Above competent persons are	employed

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9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	i) Covered under current (O/C) Workings 34.400 (ii) Reclaimed/Rehabilitated 2.420 (iii) Used for waste disposal 0.65	i) Covered under current (O/C) Workings 34.400 (ii) Reclaimed/Rehabilitated 2.420 (iii) Used for waste disposal 0.65
9d	Scrutiny of Annual return on afforestation	2400	2400
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	Rs.294.93/-	Rs.294.93/-
9h	Scrutiny of Annual return on fixed assets	Nil	Nil
9k	Scrutiny of Annual return on mining machineries	Wheel Loader 6.0 cum, Dumper 60 T, Rock drill-100mm	The above machineries are deployed.

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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

Date :**(IBRAHIM SHARIEF)**

Indian Bureau of Mines