

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

**MCDR inspection REPORT
Jabalpur regional office**

Mine file No : MP/SIDHI/LIMESTONE-07

Mine code : 38MPR41006

- (i) Name of the Inspecting : **SQ23**) **SANDEEP KUMAR SINGH**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Shri S K Sinha, Agent, Shri Santosh Singh, Manager
Official with
Designation
- (iv) Date of Inspection : 11-JUN-21
- (v) Prev.inspection date : 22-NOV-19

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **MAJHGAWAN EXT (54.8 HECT)**
- (b) **Registration NO.** : **IBM/441/2011**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
State : MADHYA PRADESH
District : SIDHI
Village : MAJHGAWAN
Taluka : RAMPUR NAIKIN
Post office : BHARATPUR
Pin Code : 486776
FAX No. : +912266917400
E-mail : sandeepk.sinha@adityabirla
Phone : +912228244770
- (f) Police Station : ANDHERI (E)
- (g) First opening date : 18-NOV-13
- (h) Weekly day of rest : SUN
2. Address for : A wing, Ahura Centre, 1st floor
correspondance : Maha kali Caves Road,
Andheri (East), Mumbai 400093
3. (a) Lease Number : MPR2570
- (b) Lease area : 54.82
- (c) Period of lease :
- (d) Date of Expiry : 28-MAR-33
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : ULTRATECH CEMENT LIMITED
 SIDHI CEMENT WORKS.VILL.
 MAJHIGAWAN PO BHARATPUR
 DISTT. SIDHI SIDHI MADHYA
 PRADESH
 Phone:
 FAX :

Owner : K. C .JHANWAR
 A wing,Ahura Centre, 1st
 floor, Maha kali Caves
 Road, Andheri (East), Mumbai
 400093 SIDHI MADHYA PRADESH
 Phone: +912228244770
 FAX : +912266917400

Agent : S K SINHA
 Aditya Vihar, Post:
 Bharatpur, Rampur, Naikin,
 Sidhi (MP) SIDHI MADHYA
 PRADESH
 Phone: 9425811084
 FAX :

Mining Engineer

Name : Santosh Singh, Full Time
 Qualification : BE Mining
 Appointment/ : 07-NOV-18
 Termination date

Geologist

Name : GAURAV TRIPATHI, Full Time
 Qualification : MSc GEOLOGY
 Appointment/ :
 Termination date

6. Date of approval of Mining	:	MP modif under MCR 1960	30-SEP-16
Plan/Scheme of Mining	:	MP modif under 17(3) MCR 2016	02-JUL-19
	:	MP review under 17(1) MCR 2016	24-DEC-20

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	0	0	No proposal for exploratory holes
1b	Exploration over lease area for geological axis 1 or 2	No proposal	Nil	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	G1= 50.665 ha Unexplored=4.16 ha	Total area=54.825 ha G1=50.665 ha Unexplored=4.16 ha	Additional 03 nos. BH proposed fin FY 2021-22.
1e	Balance reserve as on 01/04/20	-	111- 19.825 MnT 221-5.325 MnT	
1f	General remarks of inspecting officers on geology, exploration etc			The limestone of Majhgawan Extension lease area belongs to Rohtas Stage of Semri Series of Lower Vindhyan System of Indian Stratigraphy. Ghaghar quartzite overlies the Rohtas Stage that forms a part of the Kaimur Hills. The regional strike of limestone deposit is ENE - WSW with a northerly dip varying from 50 to 100 into the hills. Lithological sequence; Top soil with scree material Sand stone pebbles Limestone

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Pit 1: E 532200 to 532600 & N 2689840 to 2689580 Pit 2: E 531820 to 532310 & N 2689400 to 2689600	Pit 1: E 532340 to 532580 & N 2689340 to 2689580 Pit 2: E 532000 to 532310 & N 2689440 to 2689600	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Pit 1: Top soil-0, Over burden-4, Ore -1 Pit 2: Top soil-0, Over burden-0, Ore -5	Pit 1: Top soil-0, Over burden-3, Ore -1 Pit 2: Top soil-0, Over burden-0, Ore -3	
2c	Stripping ratio or ore to OB ratio	1:0.10	1:0.22	
2d	Quantity of topsoil generation in m3	500 M3	520 M3	
2e	Quantity of overburden generation in m3	105592 M3	113015 M3	

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	In general bench height & width is 8 mtr and Limestone is 8mtr. It is a hill working. Work is done two location pit 1 and pit 2 Working is done from 356mRL to 322 mRL in pit-1 and pit2 364 mRL to 313 mRL. Development is done by 3.5M3 shovel- 2nos and 40Tonner dumper , Drill hole dia 6" dia / 6 -8 mtr holes.
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Two pits	Two pits	
3b	Quantity of ROM mineral production proposed	1000000	499922	
3c	Recovery of sailable/usable mineral from ROM production	Nil	Nil	ROM sent to crusher
3d	Quantity of mineral reject generation	No Mineral rejects found.	No Mineral rejects found.	
3e	Grade of mineral rejects generation and threshold value declared.	Nil	Nil	
3f	Quantity of sub grade mineral generation.	No Mineral sub grades	No Mineral sub grades	

3g	Grade of sub grade mineral generation	N/A	N/A	
3h	Manual / Mechanised method adopted for segregating from ROM	Not Proposed	N/A	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not Proposed	N/A	
3j	Provision of drilling and blasting in mineral benches	Proposed	Yes	6"drill Atls D-50,ROC-6
3k	Provision of mining machineries in mineral benches	Proposed	Provided	3.5 M3 Tata Hitachi Z asis,40 T Cat Dumper
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes	Yes suitable
3m	Total area covered under excavation/pits	21.99	22.34	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.10	1:0.22	T:M3
3o	Total area put in use under different heads at the end of year	35.87	34.50	

3p	Production of ROM mineral during the last five year period as applicable	2016-17: 500000 2017-18: 500000 2018-19: 500000 2019-20: 1000000 2020-21: 1000000	2016-17: 196652 2017-18: 495254 2018-19: 495605 2019-20: 494311 2020-21: 499922
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3q	General remarks of inspecting officers on method of mining etc.	Striping ration is achieved, less production due to EC limit. EC has obtained feb-2021 and CTO 29 May 2021 for 1.0 Mnt/Year capacity. Mechanized mining in benches by 3.5M3 shovel & 40T dumper is done.violation issued for achieving less production and development.
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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)	Yes	Yes	Only separate OB dumping
4b	Location of topsoil, OB and mineral reject dumps	E 532349 to 532657 & N 2689719 to N 2690029	E 532446 to 532631 & N 2689770 to 2690019	OB Dump Location, No mineral reject
4c	Number of dumps within lease area and outside of lease area	1	1	Active dump within the lease

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Part within ultimate pit limit-1	Part within ultimate pit limit-1	Part of the Dump is planned to be re-handled in Next 5 year plan
4e	Number of active and alive dumps.	1	1	Temporary Dump
4f	Number of dead dumps.	NIL	NIL	
4g	Number of dumps established.	One	One	
4h	Whether Retaining wall or garland drain all along dumps are there.	Along dumps and pits	GD above pits and existing dump	
4i	Length of Retaining wall or garland drain all along dumps	RW: 0 GD: 0	RW: 150m GD: 85m	Maintained (photos)
4j	Number of settling ponds	Not proposed	Nil	
4k	Specific comments of inspecting officer on waste dump management			Drain and retaining wall area maintained along the dump near BP-5, 6, 7.

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 of area in Pit-2 fully excavated	Backfilling done in 0.10 Ha. area	
5b	Area under backfilling of mined out area	1.0 Ha.	0.20 Ha.	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Yes	Yes, used in plantation work	

5d	Total area fully reclaimed and rehabilitated	Nil	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).	Yes	Yes	PMCP copy
6b	Area available for rehabilitation (ha) .	Nil		No Proposal
6c	afforestation done (ha).	Nil	Nil	
6d	No. of saplings planted during the year	Nil	No Proposal	
6e	Cumulative no .of plants	Nil	Nil	
6f	Any other method of rehabilitation	Nil		No Proposal for mined out benches.
6g	Cost incurred on watch and care during the year	Nil	Nil	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	1.0 Ha.	Total Pit area= 22.34 Ha	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	1.0 Ha.	Total Pit area= 22.34 Ha. Area available for backfilling 1.0 Ha. Backfilling done in 0.10 Ha.	

6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	0.20 Ha. (400 nos.)	Total Pit area= 22.34 Ha. Area available for backfilling 1.0 Ha. Backfilling done in 0.10 Ha.	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Nil	Total Pit area= 22.34 Ha. Area available for backfilling 1.0 Ha. Backfilling done in 0.10 Ha.	
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Nil	Total Pit area= 22.34 Ha. Area available for backfilling 1.0 Ha. Backfilling done in 0.10 Ha.	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	600 Nos	1000 Nos.	Plantation on Non mineralized area
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	0.30 Ha.	0.30 Ha.	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	By plantation	By plantation	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Within Permissible limits	Within Permissible limits	Quarterly basis

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Green belt plantation is done 1000 nos. are planted. Survival is around 85% .The variety is Neem , Seesam, Karanj, Sagaun
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM Dispatch	ROM Dispatch	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No Proposal	Nil	
7c	Different grade of mineral sorted out at mines.	No Proposal	N/A	
7d	Any beneficiation process at mines .	No Proposal	N/A	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			The Limestone is sent to Crusher (1000 TPH) located at factory area (2 Km) .

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes	Yes	Concurrent

8b	Concurrent use or storage of topsoil	Concurrent	As per proposal	No stacking, concurrent use in plantation work
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes for waste	As per proposal Made for waste	Waste Dump
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Yes	By means of backfilling in some part of Pit-2	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Yes Proposed	Being done	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Baseline 5000 Nos. Additional =1000 Nos.	Additional =1000 Nos.	survival rate is poor around 50% than planned 80%.violation is issued.
8g	Survival rate	80%	50%	
8h	Water sprinkling on roads to control airborne dust	Yes	Regular water sprinkling on haul roads and static water sprinklers installed at crusher ramp	

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Plantation is done at boundary Barrier, Safety zone but survival less.violation issued. Sprinkler are installed on near crusher. Water tanker is regularly run for dust suppression. Drill is equipped with dust collector/wet drilling.
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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly Returns till May-2021 & Annual Returns for 2020-21 submitted		done
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Name of the Mining Engineer, Geologist and Manager: SK Sreenubabu Geologist: Gaurav Tripathi M.E: Santosh Singh	info given	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	information provided.		
9d	Scrutiny of Annual return on afforestation	1000 Nos./ survival	85%	survival rate is poor around 50% than planned 80%.violation is issued.

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	nil		
9f	Scrutiny of Annual return on ROM stock and/or graded ore	nil.stock nil		
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Sale value: 0 Ex-Mine price: Rs. 508.33/- Production cost: Rs. 508.33/-	Ex-Mine Price & Cost of Production is same in case of captive lease	
9h	Scrutiny of Annual return on fixed assets	Fixed assets as per Annual Returns for all seven leases	Value of fixed assets: Rs. 2,23,37,00,162	
9k	Scrutiny of Annual return on mining machineries			List of HEMM is provided in return.

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)	26-AUG-21	11-NOV-21				

Date :

(SANDEEP KUMAR SINGH)

Indian Bureau of Mines