

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

Review and updatation of Mining Plan REPORT

Jabalpur regional office

Mine file No : MP/SIDHI/LIMESTONE-07

Mine code : 38MPR41006

- (i) Name of the Inspecting : **SQ05**) **DEEPAK SHARMA**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : P K Upadhyay Mines Manager, Mukesh Kumar ME, Gaurav T
Official with
Designation
- (iv) Date of Inspection : 28-MAY-19
- (v) Prev.inspection date :

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 :
- 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 : 20
- (d) Date of Expiry : 20-FEB-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
 UTCL,MUMBAI SIDHI MADHYA
 PRADESH
 Phone:
 FAX :

Agent : P K UPADHYAYA
 SIDHI MADHYA PRADESH
 Phone:
 FAX :

Mining Engineer

Name : SANTOSH SHARMA,Full Time
 Qualification :
 Appointment/ :
 Termination date

Geologist

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

6. Date of approval of Mining Plan/Scheme of Mining : MP modif under MCR 1960

30-SEP-16

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal was given for exploration for the year 2018-19	No Exploration was done in the year 2018-19	
1b	Exploration over lease area for geological axis 1 or 2	To explore lease area upto G1 level of exploration	Total lease area i.e. 54.825 hectare is already explored upto G1 level of Exploration	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not Applicable	Not Applicable	No exploration proposed and done in year 2018-19
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not Proposed	Area already explored upto G1 level of Exploration	No Exploration proposed and not done in the year 2018-19
1e	Balance reserve as on 01/04/20	111-22.006 mt 221-5.325 mt (as on 1.04.2016)	111-20.819 mt 221-5.325 mt (as on 1.04.2018) (after depletion)	
1f	General remarks of inspecting officers on geology, exploration etc			Lease area belongs to Rohtas limestone of Semri group of Lower Vindhyan Super Group, grey to whitish grey colour of limestone with interclasesion of cavities.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	Development was proposed in grid location between the N2689316, E531611 to N2689606, E532205	Development was carried out in grid location between the N2689300, E531590 to N2689700, E5322400	Deviation observed in respect of development modification done
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Proposal for OB bench 6-8 m, Lst bench 8m	Actual for OB bench 5-8 m, Lst bench varies from 6-9 m	Violation same has been issued from this office
2c	Stripping ratio or ore to OB ratio	1:0.53	1:0.65 (aprox)	
2d	Quantity of topsoil generation in m3	300 Cubic meter	0 Cubic meter	No top soil was generated during the year 2018-19
2e	Quantity of overburden generation in m3	263881 Cubic Meter	425702 Cubic Meter	increase in OB generation due to maintain previous years backlog
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Development was proposed in the pit no 2 with the avg bench height in OB bench 6-8 m, Lst bench 8m	Actual development is proposed location with deviation due to processes fo transfer of lease, deviation in OB generation is to maintain the backlog of previous years	

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	The mining operation was proposed to be carried out in the Pit -1 and Pit-2. in grid location between the N2689316, E531611 to N2689606, E532205	The mining operations was done in the Pit-1 and Pit-2. in grid location between the N2689300, E531590 to N2689700, E5322400	

3b	Quantity of ROM mineral production proposed	500000	495605	as per proposal
3c	Recovery of sailable/usable mineral from ROM production	85%	80-85% (varies due to interclated waste, voids)	
3d	Quantity of mineral reject generation	0	0	all the produced ROM used in captive Cement Plant
3e	Grade of mineral rejects generation and threshold value declared.	0	0	
3f	Quantity of sub grade mineral generation.	0	0	
3g	Grade of sub grade mineral generation	0	0	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised method proposed for segregation of ROM	Mechanised method in using for segregation of ROM (Crusher, Screening)	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal for analysis or beneficiation proposed	Not done	
3j	Provision of drilling and blasting in mineral benches	Drilling and blasting in mineral benches proposed	As per proposal drilling and blasting adopted	
3k	Provision of mining machineries in mineral benches	Use of mining machineries proposed in the mineral benches	mining machineries (HEMM) used in the mineral benches for excavation and transportation	

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	proposal for benches in OB was 4-8 m and in mineral Lst is 8 m	proposed height of benches in OB and minerals benches are suitable for mining	
3m	Total area covered under excavation/pits	1.74 hect area proposed for excavation in year 2018-19	about 1.70 hect area excavated in the year 2018-19	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.53	1:0.60 (aprox)	
3o	Total area put in use under different heads at the end of year	The proposed area put to use at the end of year 2018-19 is 4.21 hect. (excavation, dump and R&R)	actual area put in use at the end of the year 2018-19 is 4.10 hect (excavation, dump R&R)	
3p	Production of ROM mineral during the last five year period as applicable	2014-15=500000, 2015-16=500000, 2016-17=500000, 2017-18=500000, 2018-19=500000	2014-15=388125, 2015-16=299251, 2016-17=196652, 2017-18=495254, 2018-19=495605	
3q	General remarks of inspecting officers on method of mining etc.			None

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate dumpign for top soil OB and mineral reject proposed in grid location between N 2689600 E 532500 and N 26889800 E 532700	As per proposal separate dumping is being done whatever the amount of OB top soil generated in grid location between N 2689600 E 532500 and N 26889800 E 532700
4b	Location of topsoil, OB and mineral reject dumps	One waste dump proposed in teh eastern part of the lease area in grid location between N 2689600 E 532500 and N 26889800 E 532700	One temporary waste dump situated in eastern part of the lease area in grid location between N 2689600 E 532500 and N 26889800 E 532700
4c	Number of dumps within lease area and outside of lease area	One waste dump in grid location between N 2689600 E 532500 and N 26889800 E 532700	One waste dump within lease area in grid location between N 2689600 E 532500 and N 26889800 E 532700
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Out side UPL	Outside UPL in eastern part of teh lease area
4e	Number of active and alive dumps.	one active temporary dump proposed	one active temporary dump
4f	Number of dead dumps.	No proposal for dead dump	No dead dump present in the lease area
4g	Number of dumps established.	No proposal given	No dump established yet, mining area not mature enough
4h	Whether Retaining wall or garland drain all along dumps are there.	garland drain was proposed all around the dump	garland drain prepared all around the dump 200 m

4i	Length of Retaining wall or garland drain all along dumps	garland drain proposed	garland drain about 200 m prepared	
4j	Number of settling ponds	No proposal given for settling ponds	1	
4k	Specific comments of inspecting officer on waste dump management			One active temporary waste dump present in the eastern part of lease area, which is outside the UPL, garland drain prepared all around the waste dump about 200 m length

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.	No backfilling was proposed in the year 2018-19	Not Done area not mature enough	
5b	Area under backfilling of mined out area	No proposal was given for backfilling in the year 2018-19	Not done, no area mature enough for backfilling	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Proposal for plantation given for generated top soil	generated top soil is being used in plantation co-currently	
5d	Total area fully reclaimed and rehabilitated	1 hectare area rto be reclaimed by means of plantationr	about 1.0 hectare non-mineralised area reclaimed by means of plantation	

5e	General remarks of inspecting officers on backfilling and reclamation etc.	No mining area is mature enough for the backfilling, non-minealised area is being reclaimed by the means of plantation, generated top soil is being used for the plantation co-currently about 1 hectare area reclaimed by means of plantation
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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).	NA	Not Submitted	
6b	Area available for rehabilitation (ha) .	Not Proposed	Not Done area not mature enough	
6c	afforestation done (ha).	1.0 hectare was proposed	1.0 hectare done by means of planttaion	
6d	No. of saplings planted during the year	2000 saplings were proposed	about 2000 Nos.	
6e	Cumulative no .of plants	Not Proposed	cumulativly about 6000 Nos of sapling plantated with avg height of 3-5 m	
6f	Any other method of rehabilitation	Not Proposed	NA	
6g	Cost incurred on watch and care during the year	Not Proposed	NA	

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Not Proposed	No area backfilled
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal	No backfilling done
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	1 hectare area proposed for afforestation	1.0 hectare reclaimed by afforestation
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not Proposed	No proposal was given for R & R by means of water reservoir
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Not Proposed	NA
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Non-mineralised area within lease area proposed to be plantation	Non-mineralise area within lease area is being reclaimed by means of planttaion about 1.0 hectare area has eben planted
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Not Proposed	NA

6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Plantation was proposed	Plantation over the non-mineralised area was proposed which is being done about 1.0 hectare area planted	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposed	being done as per proposal	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			No area is mature enough for the backfilling, non-mineralised area within lease area is being reclaimed by means of plantation

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Dispatch of ROM is proposed	ROM is being dispatched to captive cement plant	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Not proposed	ROM dispatched to captive cement plant	
7c	Different grade of mineral sorted out at mines.	Not proposed	NA	
7d	Any beneficiation process at mines	Not proposed	NA	

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	All the generated ROM is being dispatched to captive cement plant, no sorting is being done in and out side the lease area
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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Separate removal and utilization fo top soil proposed	separate removal and utilization of top soil method is being adopted in the mining lease by means of plantation over non-mineralised area about 10.0 hect area planted in the year 2018-19	
8b	Concurrent use or storage of topsoil	Planttaion proposed	plantation of top soil is being done	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	not proposed	only one active tempoprary dump for waste and OB is present in the lease area	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	as and when area mature will be done	No area mature enough	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not Proposed	phase restoretaion is in progress	

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	NA	NA	
8g	Survival rate	80%	60-70 %	
8h	Water sprinkling on roads to control airborne dust	proposed	as per proposal by water tanker and sprinklers were used for water sprinkling	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			only one dump for waste dump is being used for staking of OB and waste which is temporary, top soil is being used in plantation over non-mineralised area phase wise about 10.0 hectare area has been reclaimed by means of plantation

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	NIL	Monthly returns submitted online upto June 2019 Annual Rerutns submitted online for the year 2018-19	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	furnished	Mining Engineer Mukesh Kumar, Geologist Gaurav Tripathi as mentioned in the submitted Form K	

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	furnished	2000 nos of samling planted
9d	Scrutiny of Annual return on afforestation	furnished	plantation of 2000 nos sapling
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	furnished	No mineral reject generated, as all the ROM used in captive cement plant
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Furnished in AR	Total ROM production is 495605 Tonnes
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	furnished	252.63 Rs Total Cost of production per tonne
9h	Scrutiny of Annual return on fixed assets	furnished	INR 2294262423 fixed asset (combined for 6 leases)
9k	Scrutiny of Annual return on mining machineries	furnished	details of mining machineries mentioned in AR (combined for 6 leases, all the leases are nearby)

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)	24-JUN-19			

Date :

(DEEPAK SHARMA)

Indian Bureau of Mines