INDIAN BUREAU OF MINES
MINERALS DEVELOPMEMT AND REGULATION DIVISION

MCDR inspection REPORT

Jabalpur regional office

Mine file No : MP/STN/LST-314 **Mine code : 38MPR35274**

(i) Name of the Inspecting Officer and ID No. : **SQ05) DEEPAK SHARMA**

(ii) Designation : Senior Mining Geologist

(iii) Accompaning mine Official with Designation : Geologist S K Jain, Geologist Akhilesh Rai, Mining En

(iv) Date of Inspection : 13-FEB-21

(v) Prev.inspection date : 11-JAN-19

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **BHADANPUR (663 HA)**

(b) Registration NO. :

(c) Category : A Fully Mechanised

(d) Type of Working : Opencast

(e) Postal address

State : MADHYA PRADESH
District : SATNA
Village : BHADANPUR
Taluka : MAIHAR
Post office : SARLANAGAR
Pin Code : 485772
FAX No. : 07674-322306,0761-321881
E-mail : mc_mines@yahoo.com
Phone : 07601-32043,32067,32068

(f) Police Station : SARLA NAGAR

(g) First opening date :

(h) Weekly day of rest :

2. Address for correspondance :

MAIHAR CEMENT
P.O. SARLA NAGAR, MAIHAR, SANTA(M.P.) 485772

3. (a) Lease Number : MPR0423
(b) Lease area : 296.96
(c) Period of lease :
(d) Date of Expiry : 31-MAR-30

4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : MAIHAR CEMENT
P.O. SARLA NAGAR,MAIHAR
SATNA MADHYA PRADESH
Phone:07601-32043,32067,32068
FAX :07674-322306,0761-321881

Owner : MAIHAR CEMENT
P.O. SARLA NAGAR, MAIHAR,
SATNA MADHYA PRADESH
Phone: N. A.
FAX : N. A.

6. Date of approval of Mining Plan/Scheme of Mining :

Fresh under rule 22 MCR1960	27-DEC-01
Modif.of approved Mining Plan	26-MAR-03
Modif.of approved Mining Plan	12-JUL-06
Mining Scheme rule 12 MCDR1988	14-JUN-07
Modif.approved Mining Scheme	19-SEP-11
Mining Scheme rule 12 MCDR1988	30-MAY-12
Modif.approved Mining Scheme	24-APR-14
MP modif under 17(3) MCR 2016	06-MAR-20

PART – II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No backlog of exploration	Exploration was carried out as per the proposal 37 nos of boreholes drilled in the year 2019-20	
1b	Exploration over lease area for geological axis 1 or 2	it was proposed to explored the mineralised area upto G1 level	as on date G1-389.8 hect G2-176.4 hect G3-39.06 hect non-mineralised area - 18.60 hect	future exploration proposed to explore area up to G1
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Maihar Cement exploration wing it self	Maihar Cement exploration wing itself	
1d	Balance area to be explored to bring Geological axis in 1 or 2	it was proposed to explored ML upto G1 level	as on date 01.04.2020 G1-389.8 hect G2-176.4 hect G3-39.06 hect non-mineralised area - 18.60 hect	
1e	Balance reserve as on 01/04/20	as on 01/04/2017 111-71.07 121-24.23 122-nil 211-62.39 222-51.84 331-157.69 333-62.99	as on 01/04/2020 111-72.150 121-nil 122-nil 211-53.49 222-48.72 331-125.64 333-63.50	
1f	General remarks of inspecting officers on geology, exploration etc			Limestone of the ML belongs to Semri stage or tohtas formation of vindhyan super group, light to dark grey in colou, fines grained hard and compact, shally patches founds in between the limestone bands as voids

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	it was proposed to do development work in the eastern portion of the ML pit E1 and in western portion of the ML pit W3	development work was carried out in Pit E1 and W3 in between grid lines E 476700 to 476220 & N 266937 to 266930	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	proposed	separate benches in OB and mineral benches prepared OB-1-1.5 m, limestone bench 7-8 m	
2c	Stripping ratio or ore to OB ratio	1:0.01	1:0.012	
2d	Quantity of topsoil generation in m3	Nil-0	NIl-0	
2e	Quantity of overburden generation in m3	56125 cubic meter	64727 cubic meter	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Development work was as per proposal

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	two pits	two pits E1 & W3	
3b	Quantity of ROM mineral production proposed	2199825	2164852	
3c	Recovery of sailable/usable mineral from ROM production	100 %	100 %	ROM is being used in captive cement plant

3d	Quantity of mineral reject generation	Nil-0	Nil-0
3e	Grade of mineral rejects generation and threshold value declared.	Nil-0	Nil-0
3f	Quantity of sub grade mineral generation.	Nil-0	Nil-0
3g	Grade of sub grade mineral generation	Nil-0	Nil-0
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanical method prposed	mechanical method adopted screening
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not Proposed	NA
3j	Provision of drilling and blasting in mineral benches	Proposed	as per proposal
3k	Provision of mining machineries in mineral benches	Proposed	HEMM is being used in mineral benches for development production and transportation
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	proposed	suitable
3m	Total area covered under excavation/pits	137.14 hect	118.90 hect
3n	Ore to OB ratio for the pit/mine during the year.	1:0.01	1:0.012

3o	Total area put in use under different heads at the end of year	191.55 hect	143.25 hect	
3p	Production of ROM mineral during the last five year period as applicable	2015-16=2300000 2016-17=2197450 2017-18=2199900 2018-19=2199823 2019-20=399990	2015-16=2194569 2016-17=2198702 2017-18=2199105 2018-19=2199739 2019-20=2164852	
3q	General remarks of inspecting officers on method of mining etc.			HEMm is being used for development production and trasportation, drilling and blasting is being done as and when required

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Proposed	Separate dumps for OB, Soil and Mineral	
4b	Location of topsoil, OB and mineral reject dumps	poposed	as per proposal	
4c	Number of dumps within lease area and outside of lease area	outside the upl	outside the upl	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	outside the upl	outside the upl	
4e	Number of active and alive dumps.	five	five	
4f	Number of dead dumps.	nil-0	nil-0	

4g	Number of dumps established.	nil-0	nil-0	
4h	Whether Retaining wall or garland drain all along dumps are there.	proposed	as per proposal 250meters	
4i	Length of Retaining wall or garland drain all along dumps	proposed	as per proposal	
4j	Number of settling ponds	two	two	
4k	Specific comments of inspecting officer on waste dump management			dumps are as per proposal separatly sacking being done

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.	proposed	full extraction proposed	
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	top soil is being used in planttaion over backfilled area	
5d	Total area fully reclaimed and rehabilitated	NIl-0	Nil-0 no area fully extracted / matured for backfilling	

5e	General remarks of inspecting officers on backfilling and reclamation etc.		top soil ien being used in backfilled area planttaion

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).	proposed	submitted	
6b	Area available for rehabilitation (ha) .	nil-0	nil-0 no area mature for rehabilitation	
6c	afforestation done (ha).	2.50 hect	2.50 hect	
6d	No. of saplings planted during the year	3600	4000	
6e	Cumulative no .of plants	35000	36850	
6f	Any other method of rehabilitation	not proposed	na	
6g	Cost incurred on watch and care during the year	not furnished	na	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	nil-0	nil-0	
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 dispatch proposed	Rom is being dispatched to captive cement plant	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	mechanical method proposed	screening process used	
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			ROM is being dispatched to captive cement plant

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	proposed	top soil is being removed and stacked separetly	

8b	Concurrent use or storage of topsoil	proposed	top soil is being used in plantation	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	proposed	OB waste stacked separetly	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	proposed	over fully extracted area	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	proposed	as per proposal	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	proposed	as per proposal	
8g	Survival rate	90 %	90-95 %	
8h	Water sprinkling on roads to control airborne dust	proposed	water is being sprinkled with use of water tanker and sprinklers	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			needs improvements in terms of plantation and vegetation

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks

9a	Status of submission of Monthly and Annual returns	Submitted	AR and MR submitted online
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Submitted / furnished	Manager Shri Pradeep Rai & Shri A.K. Singh Mining Engineer in charge Shri Amit Pateriya Geologist in charge A.K. Ray
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	furnished	12. Lease area (surface area) utilisation as at the end of year (hectares) Under forest Outside forest Total (i) Already exploited & abandoned by opencast (O/C) mining 0.000 663.000 663.000 (ii) Covered under current (O/C) Workings 0.000 133.027 133.027 (iii) Reclaimed/Rehabilitated 0.000 9.730 9.730 (iv) Used for waste disposal 0.000 4.550 4.550 (v) Occupied by plant, buildings, residential, welfare buildings & roads 0.000 1.500 1.500 (vi) Other Purpose (Road, plantation)
9d	Scrutiny of Annual return on afforestation	furnished	furnished
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	furnished	furnished

9f	Scrutiny of Annual return on ROM stock and/or graded ore	furnished	furnished
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Furnished	Ex Mine Price INR 318.69 Cost of Production INR 318.69
9h	Scrutiny of Annual return on fixed assets	Furnished	Value of Fixed Assets INR 1829191318 (in respect of the mine, beneficiation plant, mine work-shop, power and water installation)
9k	Scrutiny of Annual return on mining machineries	Furnished	Furnished

Details of violations observed during current inspection and compliance position of violation pointed out

Violation observed			Show couse position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on

Date :

(**DEEPAK SHARMA**)

Indian Bureau of Mines