INDIAN BUREAU OF MINES MINERALS DEVELOPMENT AND REGULATION DIVISION

Check up inspection REPORT

Jabalpur regional office

	Mine	file No : MP/DAMOH/LS	ST-6	Mine code : 38MPR09003
	(i)	Name of the Inspectin Officer and ID No.	g :	PQ13) RAJNEESH PUROHIT
	(ii)	Designation	:	Regional Controller Mines
	(iii)	Accompaning mine Official with Designation	:	Mr. G.Taluja, Mines manager, Mr. R.N.Rai, Agent. & Mr
	(iv)	Date of Inspection	:	17-MAY-19
	(v)	Prev.inspection date	:	
		P	ART-	I : GENERAL INFORMATION
1.	(a)	Mine Name	:	DIAMOND PATHARIA1247.267H
	(b)	Registration NO.	:	IBM/398/2011
	(c) (d) (e)	Category Type of Working Postal address State District Village Taluka Post office Pin Code FAX No. E-mail Phone		A Fully Mechanised Opencast MADHYA PRADESH DAMOH SATPARA,JAGTHAR PATHARIA PATHARIA 470666 07601-241235 diam@sancharnet.in 07601-241301 TO 304
	(1)	Police Station	:	NARSINGHPUR
	(g)	First opening date	:	50-AFK-04
2.	(h) Addre corre	Weekly day of rest ess for espondance	:	SUN M/S HEIDELBERGCEMENT INDIAN LIMITED BIRLAPUR, P.O. NARSINGHGARH DISTT. DAMOH (M.P.) 470675
3.	(a) (b) (c) (d)	Lease Number Lease area Period of lease Date of Expiry	: : :	MPR0103 1689.4 20 30-JUL-95
4.	Mine	ral worked	:	LIMESTONE Main

5.	Name and Address Lessee	of the :	HEIDELBERGCEMENT INDIAN LIMITED BIRLAPUR, P.O. NARSINGHGARH DAMOH MADHYA PRADESH Phone:07601-241301 TO 304 FAX :07601-241235
	Owner	:	MR S K TIWARI DAMOH MADHYA PRADESH Phone: FAX :
	Agent	:	R.N.RAI G.M. (Mines) DIAMOND CEMENT, NARSINGHGARH DISTT DAMOH DAMOH MADHYA PRADESH Phone: 0761-241301, 241305 FAX : 0761-241235
	Mining Engi	neer	
	Name	:	C.P.DADHICH,Full Time
	Qualificati Appointment Termination	on : / : date	BE MINING
	Geologist		
	Name	:	RAVI SHANKER SHUKLA,Full Time
	Qualificati	on :	MSC GEOLOGY
	Appointment Termination	/ : date	
6.	Date of approval	of Mini	ng : MP review under 17(1) MCR 2016 01-FEB-17

Plan/Scheme of Mining

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	NIL	
1b	Exploration over lease area for geological axis 1 or 2	YES	YES	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NIL	NIL	
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	NIL	Entire lease area has been explored in G1 axis
1e	Balance reserve as on 01/04/20	Reserve in UNFC code qty in Million tonnes 111 183.63 121 122 Balance resources as on 31/03/2019 211 221 35.86 222	As on 31/03/2019 particular UNFC code qty in Million tonnes balance reserve as on 31/03/2019 is 111 183.63 121 122 Balance resources as on 31/03/2019 211 221 35.86 222	Entire lease has been explored in G-1 axis.
lf	General remarks of inspecting officers on geology, exploration etc	Nil	Nil	The total area in G1 axis

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	PIT NO. 05& (06 PIT NO. 05& 06	

2b Separate benches Top soil - 1 B Top soil - 1 B ($0.5\ {\rm to}$ in topsoil, (0.5 to 0.75 0.75 m) overburden and OB - 1 B (3-6 m) m) OB - 1 B (3-6 Ore - 2 B (4-6 m) minerals (Rule 15) m) Ore - 2 B (4-6 m) 2c Stripping ratio 2014-15 0.63 2014-15 0.47 2015-16 0.36 2015-16 0.61 or ore to OB 2016-17 0.50 ratio 2016-17 0.47 2017-18 0.38 2017-18 0.29 2018-19 0.42 2018-19 0.29 2014-15 130550 2014-15 110033 2d Quantity of 2015-16 177783 2015-16 168000 topsoil generation in m3 2016-17 162637 2016-17 182550 2017-18 233117 2017-18 197470 2018-19 276887 2018-19 177200 2e Quantity of 2014-15 2014-15 1017414 overburden 1219677 2015-16 1684169 generation in m3 2015-16 2016-17 828913 2017-18 743872 1191493 2016-17 2018-19 484234 1417448 2017-18 661606 2018-19 1099796 2f General remarks Mine is of inspecting systematicaly officers on developed development of pit w.r.t. type of deposit etc

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Two number of pits. Pit no. 05 & 06	Two number of pits. Pit no. 05 & 06	

3b Quantity of ROM 2014-15 2014-15 4109376 4915000 2015-16 4676976 mineral 2016-17 4010110 production 2015-16 proposed 5582300 2017-18 4524086 2018-19 4636100 2016-17 5044800 2017-18 5625000 2018-19 5625000 3c Recovery of Nil Nil sailable/usable mineral from ROM production 3d Quantity of 2014-15 494857 2014-15 784848 mineral reject 2015-16 845265 2015-16 generation 1056178 2016-17 658063 2016-17 2017-18 584190 1014500 2018-19 556660 2017-18 450000 2018-19 450000 3e Grade of mineral Below 34% CaO Below 34% CaO rejects generation and threshold value declared. 3f Quantity of sub 2014-15 0 2014-15 0 grade mineral 2015-16 0 2015-16 0 2016-17 500000 2016-17 530000 generation. 2017-18 2017-18 1509395 1280175 2018-19 1365631 2018-19 1693510 3g Grade of sub Ca0% 34-38% Ca0% 34-38% grade mineral generation

3h	Manual / Mechanised method adopted for segregating from ROM	The crushing plant & ancillary facilities mainly consist of 1200TPH, impact crusher with screening system which can crush the limestone to (-75 mm) size. The crusher is preceded by a screening system (Wobbler feeder+vibrati ng screen combination) that will generate a screen rejects which shall be less than 20mm.	The crushing plant & ancillary facilities mainly consist of 1200TPH, impact crusher with screening system which can crush the limestone to (-75 mm) size. The crusher is preceded by a screening system (Wobbler feeder+vibrating screen combination) that will generate a screen rejects which shall be less than 20mm.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Nil	Nil
3j	Provision of drilling and blasting in mineral benches	Yes	Yes
3k	Provision of mining machineries in mineral benches	Yes	Yes
31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes
3m	Total area covered under excavation/pits	58 Ha	48.76 Ha

3n	Ore to OB ratio for the pit/mine during the year.	0.42	0.29
30	Total area put in use under different heads at the end of year	Excavation/pit s (Ha.) 326.06 Top soil storage (Ha.) 0.00 Waste/Ob/IB dumps (Ha.) 0.00 Mineral rejects (Ha.) 0.00 Sub grade mineral stacks (Ha.) 0.00 Mineral stacks (Ha.) 0.00 Mineral stacks (Ha.) 2.00 Plants, buildings, Infrastructure etc. (Ha.) 7.00 Others (Specify) Road & Green belt 16.50 Total area put in use under different heads at the end of year For which FA given (Ha.) 351.56	Excavation/pits (Ha.) 242.76 Top soil storage (Ha.) 0.00 Waste/Ob/IB dumps (Ha.) 0.00 Mineral rejects (Ha.) 0.00 Sub grade mineral stacks (Ha.) 0.00 Mineral stacks (Ha.) 2.00 Plants, buildings, Infrastructure etc. (Ha.) 7.00 Others (Specify) Road & Green belt 16.50 Total area put in use under different heads at the end of year For which FA given (Ha.) 259.26
3р	Production of ROM mineral during the last five year period as applicable	2014-15 4915000 2015-16 5582300 2016-17 5044800 2017-18 5625000 2018-19 5625000	2014-15 4109376 2015-16 4676976 2016-17 4010110 2017-18 4010110 2018-19 4636100

Зq	General remarks	NIL	NIL	Work is being
	of inspecting			carried out as per
	officers on			the approved
	method of mining			mining plan.
	etc.			

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	Seperate dumping of the topsoil, OB and mineral rejects is being done and simulteneously being used for reclaimation.
4b	Location of topsoil, OB and mineral reject dumps	NIL	NIL	
4c	Number of dumps within lease area and outside of lease area	NIL	NIL	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	NIL	NIL	
4e	Number of active and alive dumps.	NIL	NIL	
4f	Number of dead dumps.	NIL	NIL	
4g	Number of dumps established.	NIL	NIL	
4h	Whether Retaining wall or garland drain all along dumps are there.	NIL	NIL	
4i	Length of Retaining wall or garland drain all along dumps	NIL	NIL	
4j	Number of settling ponds	NIL	NIL	

4 k	Specific	NIL	NIL	There is no dump
	comments of			in the mine.
	inspecting			
	officer on waste			
	dump management			

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.	Nil	Complete mineral is extracted before the commencement of the backfilling.	
5b	Area under backfilling of mined out area	18.9 Ha	14.17 Ha	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	276887	177200	
5d	Total area fully reclaimed and rehabilitated	13.1 Ha	14.5 Ha	
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Nil	Nil	Concurrent Backfilling is being carried out.

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
ба	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Yes	Yes	

6b	Area available for rehabilitation (ha) .	13.1	14.5
6с	afforestation done (ha).	Nil	Nil
6d	No. of saplings planted during the year	Nil	Nil
6e	Cumulative no .of plants	Nil	Nil
6f	Any other method of rehabilitation	Nil	Nil
бg	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	14.38 Ha	17.84 Ha
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	18.9 Ha	14.17 Ha
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	13.1 Ha	14.5 Ha
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Nil	Nil

61	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Nil	Nil	
бm	Compliance of rehabilitation of waste land within lease (i)afforestation	Nil	Nil	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Nil	Nil	
60	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Nil	Nil	
бр	Compliance of environmental monitoring (core zone and buffer zone)	Done	Quarterly monitering is carried out as per the proposal	
бq	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Nil	Nil	Proposal of backfilling as per the PMCP is carried out.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	NA	NA	

7b	Method of grade- wise mineral sorting i.e. manual or mechanical.	NA	NA	
7c	Different grade of mineral sorted out at mines.	NA	NA	
7d	Any beneficiation process at mines	NA	NA	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			No any issue found related to mineral conservation.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)		Entire quantity of the Top Soil exploited has been utilized for spreading over the backfilled area for carrying out plantation.	
8b	Concurrent use or storage of topsoil	As per mining plan top soil is considered 0.3 m to 0.5 m.	Entire quantity of the Top Soil exploited has been utilized for spreading over the backfilled area for carrying out plantation.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Nil	Nil	

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NA	NA	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Nil	Backfilling and restoration of the mined out area is being done.	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Done	Done	
8g	Survival rate	100 %	100 %	
8h	Water sprinkling on roads to control airborne dust	Carried out	Carried out	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Work is carried out for environmental protection as per PMCP.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Submitted	Submitted	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Appointed as per rule.	Appointed as per rule.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given	matching with PMCP
9d	Scrutiny of Annual return on afforestation	Given	Given
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Done	Done
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	The detail information given in the monthly and annual returns.	This is a captive mine. Hence, sale value and ex mine price remains same.
9h	Scrutiny of Annual return on fixed assets	The detailed information given in the annual return.	The detailed information given in the annual return.
9k	Scrutiny of Annual return on mining machineries	The detailed information given in the annual return.	The detailed information given in the annual return.

Details of viola violation pointe	ations observed o ed out	during current	inspection	and compliance position of
Viola	ation observed		Shc	ow couse position
Rule NO.	Issued on	Compliance on	Rule NO	. Issued on Compliance on

Date :

(RAJNEESH PUROHIT)

Indian Bureau of Mines