

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

**MCDR inspection REPORT
Ranchi regional office**

Mine file No : BIH/ROH/LST/346/RRO

Mine code : 38BHR22015

- (i) Name of the Inspecting : **G004**) **OM PRAKASH GOPAL**
Officer and ID No.
- (ii) Designation : Regional Mining Geologist
- (iii) Accompanying mine : Shri Sanjay Kumar Singh GM (Mines)
Official with
Designation
- (iv) Date of Inspection : 17/09/2019
- (v) Prev.inspection date : 08/11/2016

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **MURLI PAHARI**
- (b) **Registration NO.** : **IBM/209/2011**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :
State : BIHAR
District : ROHTAS
Village : MURLI PAHARI
Taluka : DEHRI-ON-SONE
Post office : BANJARI
Pin Code : 821303
FAX No. : 06188-233242
E-mail : sanjaysingh@kalyanpur.com
Phone : 06188-233215, 233413
- (f) Police Station : Banjari
- (g) First opening date : 20/07/1992
- (h) Weekly day of rest : SUN
2. Address for : VILL-MURLIPAHARI
correspondance : ROHTAS
DIST-ROHTAS, PIN-821303
3. (a) Lease Number : BHR0139
- (b) Lease area : 53.38
- (c) Period of lease : 20
- (d) Date of Expiry : 01/01/2012
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : KALYANPUR CEMENTS LIMITED
 AT BANJARI PO-BANJARI
 ROHTAS, BIHAR ROHTAS BIHAR
 Phone: 7221, 7205, 7433, 7215
 FAX : 06188-7242

Owner : Sri Sunil Kumar Gupta, Director
 Dlmia DSP Limited/ KCL 2&3
 Dr. Rajendra Pd. Sarani
 Kolkata(W.B.) India, 700001
 ROHTAS BIHAR
 Phone:
 FAX :

Agent : Sanjay Kr. Singh
 M/s Kalyanpur Cements Ltd.
 At & PO- Banjari- 821303
 Dist- Rohtas (Bihar) ROHTAS
 BIHAR
 Phone: 06188-233055
 FAX :

Mining Engineer

Name : DHARMENDRA KUMAR SINGH, Full Time
 Qualification : B. E. (Mining)
 Appointment/ : 12/10/2012
 Termination date

Mining Engineer

Name : SANJAY KUMAR SINGH, Full Time
 Qualification : B.E.(MINING), FIRST CLASS MANAGER
 Appointment/ : 01/12/2003
 Termination date

Manager

Name : SANJAY KR. SINGH
 Qualification : B.E.(MINING), FIRST CLASS MANAGER
 Appointment/ : 01/12/2003
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining	:	Fresh under rule 22 MCR1960	11/07/1989
		Mining Scheme rule 12 MCDR1988	27/11/1998
		Mining Scheme rule 12 MCDR1988	14/09/2007
		Renewal under rule 24 MCR1960	21/05/2012
		MP review under 17(1) MCR 2016	16/05/2018

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No Proposal	NIL	-
1b	Exploration over lease area for geological axis 1 or 2	No Proposal	NIL	As per approved document entire lease area has already been explored upto G1 level.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not mentioned	-	-
1d	Balance area to be explored to bring Geological axis in 1 or 2	No Proposal	NIL	As per approved document entire lease area has already been explored upto G1 level
1e	Balance reserve as on 01/04/20	-	-	As per approved document reserves as 1/4/2018: 12.6 million tonnes
1f	General remarks of inspecting officers on geology, exploration etc	-	-	Limestone deposit of the area belongs to Rohtas formation of Vindhyan Supergroup. Extensive mining has been done in the area in past. As per approved document entire lease area has already been explored upto G1 level and no exploration is proposed.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	Development is proposd from top of hillock in the quarry. It ss proposed towards east.	Pit advancement towards east done as per proposeal. However, proposed vertical development could not be achieved due to less production depending upon demand from captive plant.	-
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Seperate benches in top soil OB and minerals are proposed.	Seperate Benches are being developed as per proposal	-
2c	Stripping ratio or ore to OB ratio	1:5.74	1:6.4	-
2d	Quantity of topsoil generation in m3	NIL	NIL	-
2e	Quantity of overburden generation in m3	1932540 cum	1557695 cum	-
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	-	-	Development is lagging behind due to less production of limestone depending on plants demand.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	one	one	-
3b	Quantity of ROM mineral production proposed	842400 tonnes	239950 tonnes	-
3c	Recovery of sailable/usable mineral from ROM production	90%	90%	-
3d	Quantity of mineral reject generation	MIneral reject generation not envisaged	NIL	Entire ROM dispatched to captive plant
3e	Grade of mineral rejects generation and threshold value declared.	-	-	-

3f	Quantity of sub grade mineral generation.	Subgrade generation not envisaged	-	Entire ROM dispatched to captive plant
3g	Grade of sub grade mineral generation	No proposal	-	-
3h	Manual / Mechanised method adopted for segregating from ROM	No proposal	-	Entire ROM dispatched to captive plant
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	Not done	-
3j	Provision of drilling and blasting in mineral benches	Large dia (32-115 mm) deep hole drilling with spacing 4.0 m, burden 3.0 m, depth 6-8 m is proposed. For blasting charge per borehole is proposed at 30 Kg.	Drilling and blasting done as proposed .	-
3k	Provision of mining machineries in mineral benches	Yes	Mining are being done by deployment of HEM mining machenaries	-
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	6 m high benches proposed for both OB and mineral	Bench parameteras as proposed in MP are suitable for mechenised operations.	-
3m	Total area covered under excavation/pits	30 Ha	30 Ha	-
3n	Ore to OB ratio for the pit/mine during the year.	1:5.74	1:6.4	-
3o	Total area put in use under different heads at the end of year	45.51 ha (at the end of plan period)	43 ha approx	-

3p	Production of ROM mineral during the last five year period as applicable	2014-15 to 2017-18 No proposal and 2018-19- 842400 tonnes	2014-15 to 2017-18 NIL and 2018-19- 239950 tonnes	-
3q	General remarks of inspecting officers on method of mining etc.	-	-	Mine remain closed in past for want of lease renewal and statutory clearances. As per order of Hon'ble Supreme court lease was renewed upto 1/1/2032 and mine reopened in 2018.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Generation of top soil not envisaged. It was proposed to stack 1298667 cum and remaining 865778 cum for backfilling.	Generated OB are stacked and Backfilling not done.	-
4b	Location of topsoil, OB and mineral reject dumps	Stacking proposed on existing dumps located towards north and NE part	Stacking are being done at proposed location.	-
4c	Number of dumps within lease area and outside of lease area	one inside lease area	one inside lease area	-
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL	Outside UPL	-
4e	Number of active and alive dumps.	One	One	-
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.	Yes	Yes	-
4i	Length of Retaining wall or garland drain all along dumps	Not mentioned	200 m	-
4j	Number of settling ponds	NIL	NIL	-
4k	Specific comments of 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.	Backfilling proposed after full extraction of mineral	Not done	-
5b	Area under backfilling of mined out area	1.0 ha	NIL	-
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	There is no top soil generation	No top soil generated	-
5d	Total area fully reclaimed and rehabilitated	NIL	NIL	-
5e	General remarks of inspecting officers on backfilling and reclamation etc.	-	-	-

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
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6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	AR on PMCP submitted	-	-
6b	Area available for rehabilitation (ha) .	NIL	NIL	-
6c	afforestation done (ha).	0.025	1200saplings	-
6d	No. of saplings planted during the year	250 psaplings	1200 saplings	-
6e	Cumulative no .of plants	Not mentioned	NA	-
6f	Any other method of rehabilitation	Not mentioned	-	-
6g	Cost incurred on watch and care during the year	Not mentioned	NA	-
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Reclamation by backfilling proposed	Backfilling not done	-
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Reclamation by backfilling proposed	Backfilling not done	-
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No proposal	Not done	-
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	Not done	-

6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal	Not done	-
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Plantation of 250 saplings	1200 saplings	-
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	1 ha	1 ha	-
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Aforestation	Aforestation	-
6p	Compliance of environmental monitoring (core zone and buffer zone)	Establishment of monitoring stations	Monitoring stations established	-
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	Dispatch of ROM without sorting	Sorting not done	-
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No proposal	-	-
7c	Different grade of mineral sorted out at mines.	No proposal	-	-

7d	Any beneficiation process at mines	No proposal for beneficiation	Beneficiation not done	-
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	-	-	Beneficiation of ROM not required. Entire ROM is transported to Crusher installed at Banjari.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	There is no top soil.	NA	-
8b	Concurrent use or storage of topsoil	No top soil	-	-
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Stacking of OB/ waste rocks on existing old dumps.	Stacking are being done as per proposal.	-
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Backfilling proposed	Backfilling not done	-
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Backfilling proposed	Backfilling not done	-
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Proposal for plantation of 250 saplings	1200 saplings planted	
8g	Survival rate	80%	70%	-

8h	Water sprinkling on roads to control airborne dust	Yes	Yes	-
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	-	-	Mining leads to disturbance of aesthetic beauty in and around mines area. There is distortion in Landscape and topogeaphy . However, reclamation and rehabilitation by way of afforestation will restore aesthetic beauty.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	-	MR and AR submitted	-
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Details of Mining Engineer, Geologist and Manager incorporated	Geologist not appointed	For non compliance of Rule 55 of MCDR'2017 Violation letter issued
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Details of land use pattern given	-	-
9d	Scrutiny of Annual return on afforestation	Details of afforestation given	-	-
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Details of reject generation mentioned	-	-
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Details of ROM and graded ore given	-	-

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Captive mine	-	-
9h	Scrutiny of Annual return on fixed assets	Details of fixed assets given	-	-
9k	Scrutiny of Annual return on mining machineries	Details of mining machineries given	-	-

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 26(2)	25/09/2019	05/11/2019	MCDR17	Rule 55(1) 25/09/2019
MCDR17	Rule 35(2)	25/09/2019	05/11/2019		
	Rule 45(5)(b)	25/09/2019	05/11/2019		
MCDR17	Rule 55(1)(2)	25/09/2019			

Date :

(OM PRAKASH GOPAL)

Indian Bureau of Mines