## INDIAN BUREAU OF MINES MINERALS DEVELOPMENT AND REGULATION DIVISION

## MCDR inspection REPORT

## Ranchi regional office

	Mine :	file No : BIH/ROH/LST/	/34	6/RRO	Mine code : 38BHI	R22015
	(i)	Name of the Inspecting Officer and ID No.	:	KQ3 ) G. S. KANNAN		
	(ii)	Designation	:	Senior Mining Geologist		
	(iii)	Accompaning mine Official with Designation	:	Shri Sanjay Kumar Singh GM	(Mines)	
	(iv)	Date of Inspection	:	17/03/2020		
	(v)	Prev.inspection date	:	17/09/2019		
		PA	RT-	I : GENERAL INFORMATION		
1.	(a)	Mine Name	:	MURLI PAHARI		
	(b)	Registration NO.	:	IBM/209/2011		
	(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 BIHAR ROHTAS MURLI PAHARI DEHRI-ON-SONE BANJARI 821303 06188-233242 sanjaysingh@kalyanpur.com 06188-233215, 233413		
	(f)	Police Station	:	Banjari		
	(g)	First opening date	:	20/07/1992		
	(h)	Weekly day of rest	:	SUN		
2.		ess for espondance	:	VILL-MURLIPAHARI ROHTAS DIST-ROHTAS,PIN-821303		
3.	(a) (b) (c) (d)	Lease Number Lease area Period of lease Date of Expiry	:	BHR0139 53.38 40 01/01/2032		
4.	Miner	ral worked	:	LIMESTONE Main	L	

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 Enginee	er		
	Name	:	DHARMENDRA KUMAR SINGH,Full Time	
	Qualification	:	B. E. (Mining)	
	Appointment/ Termination da		12/10/2012	
	Mining Enginee	er		
	Name	:	SANJAY KUMAR SINGH,Full Time	
	Qualification	:	B.E.(MINING), FIRST CLASS MANAGER	
	Appointment/ Termination da		01/12/2003	
	Manager			
	Name	:	SANJAY KR. SINGH	
	Qualification	:	B.E.(MINING), FIRST CLASS MANAGER	
	Appointment/ Termination da		01/12/2003	
	Date of approval of Plan/Scheme of Minir		ng : Fresh under rule 22 MCR1960 Mining Scheme rule 12 MCDR1988	11/07/1989 27/11/1998

6. Date of approval of Mining Plan/Scheme of Mining
6. Date of approval of Mining
6. Fresh under rule 22 MCR1960
7/11/1989
11/07/1989
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
la	Backlog of previous year	No Core Boreholes has been Proposed during the proposed plan period.	As per proposal, No boreholes have been drilled.	Violation has been issued under Rule 12(4). As conditions has been mentioned in the approved letter.
1b	Exploration over lease area for geological axis 1 or 2	exploration	No Additional exploration was carried out in the lease area for Geological axis - 1 during 2018-2019	Total 19 boreholes have been drilled in the lease area.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No Proposal for Exploration during 2018- 2019.	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No Exploration was proposed out at 100m X 100m grid interval. No Additional exploration was proposed during 2018- 2019	No Exploration was carried out at 100m X 100m grid interval.	As per approved document 19 boreholes have been drilled so far in the lease area and 62.95 hectares has explored to G-1. 2.36 hectares is under G-2.
le	Balance reserve as on 01/04/20	Reserves & Resources as on 01.04.2019 Proved Mineral Reserves (111) = 11760963 tons Feasibility Mineral Resources (211) = 490500 tons	Reserves & Resources as on 01.04.2019 Proved Mineral Reserves (111) = 12363413 tons Feasibility Mineral Resources (211) = 490500 tons	

of off geo	eneral remarks inspecting ficers on eology, ploration etc	It is part of Rohtas Limestone in Semri group of Vindhyan Sub group.	Formation comprises of shale and limestone beds overlain by shale and sandstone.	2
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# Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Proposed to work in existing Pit-1 along the periphery from top downwards of the hill during 2018- 2019 and 2019- 2020.	Development has not been carried out as per the proposal	Violation has been issued under Rule 11(1)
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	It is proposed to form separate Bench's in Topsoil, Overburden and Mineral.	Separate Benches are formed for Topsoil, Overburden and Mineral.	
2c	Stripping ratio or ore to OB ratio	1 : 5.74	1 : 6.40	
2d	Quantity of topsoil generation in m3	It is no proposal to remove topsoil during 2018- 2019	As per proposal. No topsoil has been generated.	
2e	Quantity of overburden generation in m3	During 2018- 2019 it is proposed OB as 1932540 Cu.m	1557695 cu.m of OB have been removed.	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Proposed to work in existing Pit-1 along the periphery from top downwards of the hill during 2018- 2019 and 2019- 2020.	1557695 cu.m of OB have been removed against 1932540 cu.m of OB waste proposal	

Exploitation:

l.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Proposed to work in existing Pit-1 along the periphery from top downwards of the hill during 2018- 2019 and 2019- 2020. Production proposed from 8th bench to 12th bench.	Production has not been carried out as per the proposal.	Violation has been issued under Rule 11(1)
3b	Quantity of ROM mineral production proposed	The total target of Production was 842400 tons during 2018- 2019.	Production achieved during 2018-2019 is 239950 tons.	
3c	Recovery of sailable/usable mineral from ROM production	90%	90%	
3d	Quantity of mineral reject generation	There is no proposal to produced mineral rejects during 2018-2019	No mineral rejects has been generated	
3e	Grade of mineral rejects generation and threshold value declared.	Mineral reject- below the threshold value and outside the ore zone.	Mineral reject- below the threshold value and outside the ore zone.	
3f	Quantity of sub grade mineral generation.	There is no proposal to produced Sub Grade mineral Generation during 2018- 2019	No Sub Grade mineral has been generated during 2018-2019	
3g	Grade of sub grade mineral generation	There is No proposal for Generation of Subgrade Mineral	No Sub Grade mineral has been generated during 2018-2019	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	Manual	

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No Proposal	Nil	Only Manual Picking of Ore from Intercalated Waste.
3j	Provision of drilling and blasting in mineral benches	Spacing - 4.0 m Burden - 3.0 m Depth - 6-8 m It is Proposed to drill by 32mm to 115mm dia, crawler mounted down hole drill. Control Blasting is done by using delay detonator.		
3k	Provision of mining machineries in mineral benches	Hydraulic Excavators Dumpers Compressor Jack Hammer Tractor Dozer Water Tanker Electric generator	As per proposal machineries are available in field.	
31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench height of 6m was proposed in Mineral.	Benches are formed not as per proposal and height is more than proposal.	Violation has been issued under Rule 11(1)
3m	Total area covered under excavation/pits	30 hect area is under Pit	30 hect area is under Pit	
3n	Ore to OB ratio for the pit/mine during the year.	1 : 5.74	1 : 6.4	
30	Total area put in use under different heads at the end of year	Landuse Pattern as on 01.04.2019 Mining area=30.00 hect OB Dump = 12.00 hect Roads = 1.00 hect	Landuse Pattern as on 01.04.2019 Mining area=30.00 hect OB Dump = 12.00 hect Roads = 1.00 hect	

3p	Production of ROM mineral during the last five year period as applicable	Proposal	2018-2019 = 239950 tons 2017-2018 = Nil 2016-2017 = Nil 2015-2016 = Nil 2014-2015 = Nil
Зq	General remarks of inspecting officers on method of mining etc.	Mechanised Method is Proposed	239950 tons has been achieved during 2018- 2019 against 842400 tons of proposal

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	There is proposal for dumping in existing dump in NE during 2018-2019. It is also proposed to backfill the area.	As per proposal the dumping & backfilling is not done.	Violation has been issued under Rule 11(1)
4b	Location of topsoil, OB and mineral reject dumps	to dump in dump yard in	As per proposal the dumping is done in NE side and also unproposed Northern Side during 2018-2019.	Violation has been issued under Rule 11(1).
4c	Number of dumps within lease area and outside of lease area	Lease area = 2 Non Lease area = Nil	Lease area = 2 Non Lease area = Nil	Totally 2 old dumps are present in the lease area.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	There is no proposal of Dump.	Nil	
4e	Number of active and alive dumps.	<u>+</u>	There is 2 active dump within lease area against the proposal.	
4f	Number of dead dumps.	Dead Dumps = Nil	Dead Dumps = Nil	

4g	Number of dumps established.	-	No dumps have been established.	
4h	Whether Retaining wall or garland drain all along dumps are there.	No Proposal	Retaining wall has been constructed along the dump	
4i	Length of Retaining wall or garland drain all along dumps	No Proposal	350m of Retaining wall has constructed.	
4j	Number of settling ponds	No Proposal	Nil	
4k	Specific comments of inspecting officer on waste dump management	to stock in dump yard in NE side during	As per proposal the dumping is done in NE side and also unproposed Northern Side during 2018-2019.	Retaining wall has been constructed along the dump

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.	filling has proposed during 2018-	As per proposal partly backfilled has carried out.	
5b	Area under backfilling of mined out area	to temporary	0.50 hectares has Backfilled against proposal	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	There is no topsoil generation.	There is no topsoil generation.	
5d	Total area fully reclaimed and rehabilitated	There is no proposal for fully reclaimed and rehabilitated.	Nil	Ore is not extracted upto the proved depth and no fully backfilling are proposed in the present plan period.

5e General remarks 0.50 hectares has Ore is not Partly of inspecting temporary Back Backfilled against extracted upto the proposal of 1.00 officers on filling has proved depth and backfilling and proposed hectare. no fully reclamation etc. during 2018backfilling are 2019 nearer to proposed in the BP-1 & 13. present plan period.

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).	It should be on or before 1st July every year.	Submitted for the year 2018-2019	
6b	Area available for rehabilitation (ha) .	No Proposal	Nil	
бс	afforestation done (ha).	Proposed 0.025 hect in 2018- 2019	As per proposal it is not planted inside the lease area.	Violation has been issued under Rule 11(1).
6d	No. of saplings planted during the year	250 saplings proposed in 7.5m safety barrier area for 2018-2019	1200 saplings have planted outside lease area.	
бе	Cumulative no .of plants	250 saplings proposed in 7.5m safety barrier area for 2018-2019	1200 saplings have planted outside lease area.	
6f	Any other method of rehabilitation	No Proposal	Nil	
бд	Cost incurred on watch and care during the year	No Proposal	Nil	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	Proposed 1.00 hect for temporary backfill in 2018-2019	0.50 hectares has been backfilled	

бі	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No Proposal	Nil	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	No Proposal on backfilled area	Nil	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No Proposal	Nil	
61	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No Proposal	Nil	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	250 saplings proposed in 7.5m safety barrier area for 2018-2019	1200 saplings have planted outside lease area.	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Proposed 0.025 hect in 2018- 2019	As per proposal it is not planted inside the lease area.	Violation has been issued under Rule 11(1).
60	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No Proposal	Nil	
бр	Compliance of environmental monitoring (core zone and buffer zone)	Bi-Annually Survey	Environment monitoring is carried out through own as well as private agency.	

6q General remarks Environment 1200 saplings have of inspecting monitoring is planted outside lease officers on PMCP carried out area. compliance and through progressive private closure agency. operations etc.

### Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	The total target of Production was 842400 tons during 2018- 2019.	239950 tons has been achieved during 2018- 2019	
7b	Method of grade- wise mineral sorting i.e. manual or mechanical.	Process and	Mechanical Process and Manual Picking of Ore from Intercalated Waste	
7c	Different grade of mineral sorted out at mines.	The Limestone of the lease area is cement grade. Total Carbonate varies from 76% to 80%	The Limestone of the lease area is cement grade. Total Carbonate varies from 76% to 80%	Low grade are Blended with High grade ores to get the desired plant feed materials.
7d	Any beneficiation process at mines	Manually sizing and sorting are proposed	sorting and sizing is being done	Entire ROM is transported to crusher installed in Kalyanpur Cement Plant.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	crusher installed in	239950 tons has been achieved during 2018- 2019 against 842400 tons of proposal.	Low grade are Blended with High grade ores to get the desired plant feed materials.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks

8a	Separate removal and utilization of topsoil (Rule 32)	proposal for	Nil, Topsoil generation is not there	
8b	Concurrent use or storage of topsoil	There is no topsoil generation.	There is no topsoil generation.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	to dump in dump yard in	As per proposal the dumping is done in NE side and also unproposed Northern Side during 2018-2019.	Violation has been issued under Rule 11(1).
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	At present there is no proposal for restoring.	Nil	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No Proposal	Nil	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	250 saplings proposed in 7.5m safety barrier area for 2018-2019	As per proposal it is not planted inside the lease area. 1200 saplings have planted outside lease area.	Violation has been issued under Rule 11(1).
8g	Survival rate	80%	70%	
8h	Water sprinkling on roads to control airborne dust	proposed for	Water sprinkling on road is observed during the inspection.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	No vegetation, agriculture are observed in lease area	Surrounding area beyond lease area is greenery. River Son is passing nearer to the lease area.	

Compliance of Rule 45:

Sl.No.	Item	Propasals
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Actual work

9a Status of MR Submitted Both Annual & Monthly submission of returns are submitting up to =Monthly and February 2020 in online system. Annual returns AR Submitted up to = 2018- Submitted within the 2019 time limits 9b Scrutiny of Mining As per record Mining Violation has been Annual return Engineer, Geologist is not issued under Rule for information Diploma Mining appointed. 55(1)(3)(iii). on Mining Engineer has Engineer, shown Geologist and Manager 9c Scrutiny of Landuse Pattern is Land use Annual return on Pattern as on filled as per approved land use pattern 01.04.2019. Mining Plan for area under Current working = 0.30pits, reclaimed area, dumps etc. hect Dump = 12.00hect Infrastructure = 1.010 hect 9d Scrutiny of 2500 saplings No Saplings has planted Violation has been Annual return on have shown for inside lease area during issued under Rule afforestation 2018-2019. 2018-2019 11(1). 9e Scrutiny of There is no There is no Mineral Annual return on Mineral Rejects Generation mineral reject Rejects generation Generation (Grade and quantity) 9f Scrutiny of Limestone Mine has produced 239950 It is captive mine Annual return on Stock as on tons of Production of M/s. Kalyanpur ROM stock and/or 01.04.2019 during 2018-2019 Cements graded ore ROM Closing stock = Nil Dispatches of cement grade = 239950 tons 9g Scrutiny of Cost of It is captive mine of Annual return on Production & M/s. Kalyanpur Cements sale value, Ex. Ex. Mine Price Mine price and has shown production cost Fixed Assets Fixed Assets is filled 9h Scrutiny of Annual return on is given fixed assets As available in field 9k Scrutiny of Machineries Annual return on details given mining machineries

Violation observed			Show couse position			zion		
Rule N	10.	Issued on	Compliance on	Rule	NO.	-	Issued	on Compliance o
MCDR17	Rule 11(1)	23/06/2020		MCDR17	Rule	11(]	23/06/	2020
MCDR17	Rule 12(4)	23/06/2020		MCDR17	Rule	12(4	23/06/	2020
MCDR17	Rule 33	23/06/2020		MCDR17	Rule	33	23/06/	2020

Date :

#### (G. S. KANNAN)

Indian Bureau of Mines