# **MCDR INSPECTION REPORT**

## 1.0 GENERAL

SN	Particulars	Details			
1	Name of inspecting office &	Shri Rajesh Kumar Das			
	designation ,Accompanying Person	(Sr. Asst. Controller of Mines ), Shri Anil			
		Kawale,			
		Manager Mine & Shri Vijesh Kushwaha,			
		Geologist			
2	Date of inspection	16.01.2020			
3	Name of the Mine	Paraswani Limestone Mines			
4	Total Lease Area (Ha) with breakup of	997.355 hect. Non- forest			
	Non-forest and forest land				
5	Mine code	38MPR28017			
6	IBM Registration Number under rule 45	IBM/441/2011			
Ũ	of MCDR, 1988				
7	Name of the lessee, Address, phone,	UltraTech Cement limited			
	email and fax number	Hirmi Cement Works			
		PO – Hirmi,			
		Dist. BalodaBazar-Bhatapara			
		Phone - 07726281217/18/19/20/21			
		Fax - 07726-281572			
8	Village	Hirmi			
9	Taluka/Mandal /District	Simga			
10	State	Chhattisgarh			
11	Post office & PIN	Hirmi, 493195			
12	Nearest police station	Suhela			
13	Nearest Railway station	Tilda			
14	Date of Grant of Mining Lease	15.12.1992			
15	Date of Execution	22.02.1993			
16	Date of opening of Mine	01.04.1993			
17	Date of first Renewal, if applicable and	22.02.2013 for 30 years and valid up to			
	its period & expiry	21.02.2043			
18	Date of second Renewal, if applicable	NA			
	and its period & expiry				
19	Date of submission of renewal	09.02.2012			
	application if Mining Operations are				
	continuing under deemed extension				
20	Name of the Nominated Owner with	Mr. K.C. Jhanwar			
	Address, phone, email, fax number and				
	date of appointment.	2nd floor, Mahakali Caves Road			
		Andheri (E) Mumbai 400093.			
		Mobile- 9702474200			
		- ajit.ostwal@adityabirla.com			
<u></u>		DOA: 18.10.2018			
21	Name of the Mine Agent with Address,	Shri K. C. Jain			
	phone, email, fax number and date of	UltraTechCement Ltd.			

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Scientific Mining: Compliance of proposals of approved mining plan/scheme of mining.

## Exploration

SN	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NA	NA	
1b	Exploration over lease area for	G1& G2	G1& G2	
	Geological axis 1 or 2.			
1c	Exploration Agency &		Rs. 1974892	10 Holes
	Expenditure in lakh Rupees	Nil		(976m.)
	during the year			
1d	Balance area to be explored to	NA	NA	
	bring Geological axis in 1 or 2			
1e	Balance reserves as on	216.0 (111)	1	I
	01.04.2019 (Million.Ton)	33.0 (121, 122)		
1f	General remarks of inspecting	The deposit is almost	horizontal with slight	dip of 1-2
	officer on geology, exploration	degree. In some place	s limestone is exposed	l to surface
	etc.	due to weathering effe	ect. The lease area is b	roadly
		explored.		

#### 2.0 Development

SN	Item	Proposals (18-19)	Actual work(18-19)	Remarks		
2a	Location of development	North pitN2381578	North pit			
	w.r.t. lease area	to N 2383268	N2381813 to			
		E 599616 to E	N2383254E599603			
		601628	to E 601603286 RL			
		286 RL to 250 RL	to 250 RL			
		South pitN2380781	South pit			
		to	No work done during			
		N2381049E599287	the year.			
		to E599668284 RL				
		to 265 RL				
2b	Separate benches in topsoil,	OB bench- 1 nos.	OB bench- 1 nos.			
	overburden and mineral	Mineral bench-5	Mineral bench-5 Nos.			
	(Rule 15)	Nos				
2c	Stripping ratio or ore to OB	1:0.143	1:0.149			
	ratio (MT/Cub M)					
2d	Quantity of topsoil	26950	13180			
	generation in m <sup>3</sup>					
2e	Quantity of overburden	385373	445877			
	generation in m <sup>3</sup>					
2f	General remarks of	1	roadly as per proposal bu			
	inspecting officer on	on done in south pit. Some place bench height is more than				
	development of pit w.r.t. type	pe the proposal therefore violation pointed out.				
	of deposit etc.					
3.0 ]	Exploitation					
CNI	Itom	Droposals	A stual work	Domonika		

SN	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for	02	01	
	production			
3b	Quantity of ROM mineral	4200000 MT	3538259MT	
	production proposed			

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Sr.No	Equipment Description		Nos.		Capacity		Make &	mode	1
1	Dumper	6		60	MT		Komatsu	-HD	465-7
2	Dumper	7		60	MT		BEML-1	BH 5	0
3	Excavator	3		6.5 CUM Komatsu		-PC	1250		
4	Excavator	1		6.5	5 CUM		Tata Hita	nchi –	Ex 1200
4	Excavator	1		4.(	) CUM		L & T -C	CK-30	00
5	Drill	1			0 mm		Atlas Co		
6	Drill	1		11	5 mm		DP1100i		
7	Loader	1		3.0	O CUM		Komatsu	WA	380
8	Dozer	1		35	0 HP		Komatsu		
9	Backhoe cum Rock breake	er 1		32	4 HP		L & 300(Exca	avato	T CK- r) Atlas
10	Water Tanker	1		28	KL		BEML V	VS28	
11	Water Tanker	1		8 H	KL		Tata-161	2	
31	Whether height of bench overburden and mineral su for method of mining pro in MP/SOM	iitable	Yes the h OB benc Ore benc	h- 2	2-4.5 m	mix 3.5 and 2-4 Ore mt. bee	o slicing c c bench w mtr heigl l OB benc .5 mt. e bench 4- height ha m intained.	rith nt ch-	
3m	Total area covered excavation/pits	under	174.10Ha	a.			7.170 Ha.		FY 18-19
3n	Ore to OB ratio for the pit during the year	t/mine	1:0.143			1:0.	149		FY 18-19
30	Total area put in use different heads at the e year		Pit-174.1 Waste/re 17.836Ha Backfilli Others –	eject a ng-l	t- 0	Wa 17. Bao	• 167.170 ste/reject 836Ha ckfilling- ners- 19.2	- 0	In-pit temporary
3p	Production of ROM m during last five-year perio applicable (in MT)	iineral od, as	2013-14- 2014-15- 2015-16- 2016-17- 2017-18- 2018-19-	-42( -42( - 42 - 42	00000 00000 00000 00000	361 308 346 282	8651 6205 33282 57193 21517 88259		dump. Low productio n is mainly due to low demand of Cement in market.
3q	General remarks of insp officer on method of minir	ng etc.	using HE			•	by open c ble blastir		
	id Waste Management-Du				A			F	
		oposals			Actual w			Ren	narks
	1 1 0	ncurren			Concurre		use of being		
iC	pson, OB & mineral   lop	son a	nd separat		top soil	l is	being		

	reject (Rule 32, 33)	dump for OB &	done and separate	
	Tejeet (Rule 52, 55)	mineral reject has	dumping of OB &	
		been proposed.	1 0	
41.	Leasting of tangail OD		reject is being done.	OD and tan apil
4b	Location of topsoil, OB		<b>Dump</b> (O.B.)	OB and top soil
	& mineral reject dumps	(O.B.)N2382234 to	N2382245 to	are also dump
		N2382429	N2382455	other places i.e.
		E600636 to E600892	E600619 to E600896	near view point
		RL: 265 to 250	RL : 265 to 250	in working pit
		Peripheral	Peripheral	and North side
		dumping	dumping	of ML along
		N2380783 to	N2380783 to	lease boundary
		2381078	2381078	and accordingly
		E601064 to 601310	E601064 to 601310	violation
		RL : 287 to 281	RL : 287 to 281	pointedout.
4c	Number of dumps	02 nos. within lease	02 within lease area.	
	within lease area and	area		
	outside lease area			
4d	Location of dumps	Covered in 4b	Covered in 4b	
	w.r.t. ultimate pit limit			
	(Rule 16)			
4e	Number of active &	02	02	
	alive dumps			
4f	Number of dead dumps	01	01	
4g	Number of dumps	01	01	
75	stabilized	01	01	
4h	Whether Retaining wall	Garland drain	Garland drain	
	or garland drain all	provided	provided	
	along dumps are there			
4i	Length of Retaining	Not mentioned	Length of garland	
	wall or garland drain all	specifically yearwise	drain all along dump	
	along dump	1	is 1168 mtr.	
4j	Number of settling	Nil	03	
.)	ponds			
4k	Specific comments of	The waste dumping is br	oadly as per proposal and	garland drain is
	inspecting officer on	provided along the dump		~
	waste dump			
	management			
	management			

### 5.0 Solid Waste Management-Backfilling

SN	Item	Proposals	Actual work	Remarks
5a	Status on part or full extraction of mineral from	e	Area is premature for back filling.	
	mined out area before	1 1	for back mining.	
	starting backfilling			
5b	Area under backfilling of			
	mined out area			
5c	Concurrent use of topsoil for restoration or	yes	yes	Being used for

	rehabilitation of mined out area (Rule 32)			carpeting of dump for plantation
5d	Total area fully reclaimed & rehabilitated	0.00	0.00	
5e	General remarks of inspecting officer on backfilling, reclamation etc.	Area is premature for ba	ick filling.	

### 6.0 Progressive Mine Closure Plan

SN	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on	Yes	Yes	
	PMCP submitted on time			
	and correctly - Rule 23E(2).			
	Details should be given in			
	the format as given in			
	Annexure-20.			
6b	Management of			
	worked/mined out benches			
	i) Area available for	0.00	0.000	
	rehabilitation (ha)			
	ii) Afforestation done (ha)	1.04	1.05	Nil
	iii) No. of saplings planted	2323	2440	
	during the year		193065	
	iv) Cumulative no. of plants			
	v) Any other specific			
	method of rehabilitation			
	vi) Cost incurred on watch		1123267/-	
	& care during the year			
6c	Compliance on reclamation			
	and rehabilitation by			
	backfilling			
	i) Voids available for	Nil	Nil	
	backfilling (L X B X D)			
	ii) Void filled by	Nil	Nil	
	waste/tailings	2.711	N 7 <sup>11</sup>	
	iii) Afforestation on the	Nil	Nil	
	backfilled area			
	iv) Rehabilitation by making			
	water reservoir			
(1	v) Any other specific means			
6d	Compliance of	NA		
	Rehabilitation of waste land			
	within lease .			
	i) Afforestation	Consumant hastiling	Conquerant	
	ii) Area rehabilitated (ha)	Concurrent backfilling	Concurrent	
	iii) Method of rehabilitation	and plantation on	backfilling and	
		dump.	plantation on dump.	

6e	ComplianceofEnvironmentalmonitoring(core zone & buffer zone)	Enclosed.	Enclosed.		
6f	General remarks of inspecting officer on PMCP compliance & progressive	PMCP proposals are implemented and broadly as per proposal.			
	Mineral Conservation				
SN	Item	Proposals	Actual work	Remarks	
7a	ROM Mineral dispatch or grade-wise sorting within lease area	NA	Based on software & blast hole sampling result different grade material has been marked at site/map/blend plan.		
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	NA	NA		
7c	Different grade of mineral sorted out at mines	Based on software different grade material has been marked in slice plan.	Based on software & blasthole sampling result different grade material has been marked at site/map/blend plan.		
7d	Any beneficiation process at mines	As such, limestone beneficiation is not required except for screening the clayey- soil in the top bench	No major beneficiation except crushing and screening.		
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Screening (dry Separa clayey-soil & shale in t using pet cock the qu decreases hence screen during the year.	the limestone before c uality requirement of	rushing. By plant was	

# 8.0 Environment

SN	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes	Separate removal and utilization of topsoil is being done	
8b	Concurrent use or storage of topsoil	Yes	concurrent utilization of topsoil is being done	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Planned	Separate dumps for overburden/waste rock and rejects.	

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8d	Use of overburden, waste		Part of waste rock,		
	rock, rejects and fines	planned	rejects are		
	dumps for restoring the land		concurrent being		
	to its original use		used for restoring		
			the land to its		
			original use and		
			remaining are being		
			at, in pit temporary		
			dump.		
8e	Phased restoration,	Nil	Nil		
	reclamation and				
	rehabilitation of lands				
	affected by mining				
	operations (Pits, dumps etc.)				
8f	Baseline information on	Afforestation	Total of 193309 nos.		
	existence of plantation &	proposed	plantation in 59.71		
	additional plantation done		hect.area up to		
	(Rule 41)		March 2019.		
8g	Survival rate	Not mentioned	80%		
U		specifically			
8h	Water sprinkling on roads to	28KL and 8KL taker	Water sprinkling on		
	control airborne dust	proposed for Water	roads is being done		
		sprinkling on roads	by 28KL and 8KL		
			tanker to control		
			airborne dust.		
8i	General remarks of		oposal complied all environment		
	inspecting officer on				
	aesthetic beauty in and				
	around mines are				
		beauty in and around mines area.			
9.0	Compliance of Rule 45				

SN	Item	COMMENTS	Remarks			
9a	Status of submission of	Monthly Returns Submitted upto – April 19				
	Monthly and Annual returns	Annual returns submitted upto- 2018-19				

SN	Item	Details GIVEN in A.R.	<b>Observation of I/Officer</b>	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Yes given	Shri O.P.Khelkar, Mining Engineer & Mines Manager, Shri Vijesh Kushwaha, Geologist.	Mining Engineer and Manager changed during visit as mentioned above in 22 & 23

9c	Scrutiny of Annual return on	Yes given	Covered	under o/c	working_	
λ	land use pattern for area				-	
	under pits, reclaimed area,		disposal-17.846 ha.,Infrastructure-19.251 ha.			
	dumps etc.					
9d	Scrutiny of Annual return on	Yes given	2440 nos saplings within ML			
	afforestation		area			
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Yes given	72481 Tons with CaO<32.9%			
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Nil				
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Yes given	Ex-mine price and cost of production Rs 215.17/-			
9i	Scrutiny of Annual return on fixed assets	Yes given	Rs 802452934/-			
9k	Scrutiny of Annual return on	Yes given	Type of	Capacity	No.of	Electric/
	mining machineries.		machine ry		units	Non- Electric
			Shovel	6.5 cum.	04	Non- Electric
			Dumper	50 ton & 55 Ton	07 & 6	Non- Electric
			Blast hole drill	115mm	01	Non- Electric
			Water tanker	28000Lit re	01	Non- Electric
			Wheel Loader	3.0cum	01	Non- Electric
			Dozer	350 HP	01	Non- Electric
			Back Hoe	4.0 cum	01	Non- Electric

10- Details of violations observed during current inspection and compliance position of earlier violation pointed out:-The current inspection is carried out under MCDR, 2017 for Validation of Star rating and during the inspection no serious violation found and earlier violation on field base deviation are broadly complied.

#### Rajesh Kumar Das, Senior Assistant Controller of Mines