### MCDR INSPECTION REPORT

# 1.0 GENERAL

SN	Particulars	Details
1	Name of inspecting office & designation	Shree Rajesh Kumar Das
-		(Senior Assistant Controller of Mines )
2	Date of inspection & Accompanying person	07.01.2021,Shri Anil Kawale, Mine Manager &
		Shri Vishwesh Kuswaha, Geologist
3	Name of the Mine	Paraswani Limestone Mines
4	Total Lease Area (Ha) with breakup of Non-	997.355 hect. Non- forest
	forest and forest land	
5	Mine code	38MPR28017
6	IBM Registration Number under rule 45 of MCDR, 1988	IBM/441/2011
7	Name of the lessee, Address, phone, email	UltraTech Cement limited
	and fax number	Hirmi Cement Works
		PO – Hirmi,
		Dist. BalodaBazar-Bhatapara
		Phone - 07726281217/18/19/20/21
		Fax - 07726-281572
8	Village	Hirmi
8	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 its	22.02.2013 for 30 years and valid up to
	period & expiry	21.02.2043
18	Date of second Renewal, if applicable and its period & expiry	NA
19	Date of submission of renewal application if	09.02.2012
	Mining Operations are continuing under	
	deemed extension	
20	Name of the Nominated Owner with	
	Address, phone, email, fax number and date	Ahura Centre, B Wing,
	of appointment.	2nd floor, Mahakali Caves Road
		Andheri (E) Mumbai 400093.
		Mobile- 9702474200
		- ajit.ostwal@adityabirla.com
21		DOA: 18.10.2018
21	Name of the Mine Agent with Address,	Shri Abhishek Sharma
	phone, email, fax number and date of	UltraTech Cement Ltd. Hirmi Coment Works, BO, Hirmi
	appointment	Hirmi Cement Works, PO – Hirmi, Dist. BalodaBazar- Bhatapara
		Mo- 9494097260
		Fax - 07726-281572
		abhishek.osharma@adityabirla.com
		DOA:28.06.2019
22	Name of the Mines Manager with Address,	Shri Anil D Kawale
	runne or me mines manager with runless,	

	F , ,		
	appointment in mines	Hirmi Cement Works, PO – Hirmi,	
		Dist. BalodaBazar-Bhatapara	
		09826300229	
		Phone - 07726281217/18/19/20/21	
		Fax - 07726-281572	
		anil.kawale@adityabirla.com	
		DOA: 18.05.2019	
23	Name of the Mining Engineer, Qualification	Shri Anil D Kawale	
	and total experience with Address, phone,	B.E. Mining	
	email, fax number and date of appointment	UltraTech cement ltd.	
	in mine	Hirmi Cement Works, PO – Hirmi,	
		Dist. BalodaBazar-Bhatapara	
		09826300229	
		Phone - 07726281217/18/19/20/21	
		Fax - 07726-281572	
		anil.kawale@adityabirla.com	
		DOA: 18.05.2019	
24	Whether Geologist and Mining Engineer	Yes	
	appointed in mines satisfy the rule 42 &		
	carrying out their duties as per rule 43 & 44.		
25	Date of Approval of Mining Plan/Modified	Date of Approval of modification in Mining Plan	
	Mining Plan with five-year period and	14.08.2018 and valid up to March 2023(2018-19 to	
	specific condition in approval letter, if any.	2022-23).	
26	Date of Approval of Scheme of	Date of Approval of Scheme of Mining	
	Mining/Modified Scheme of Mining with	28.08.2008	
	five-year period and specific condition in		
	approval letter, if any.		
27	Mineral(s) granted in lease and proved for	Limestone	
	mining		
28	Method of Mining(Opencast, Underground)	Opencast	
29	Category (Fully Mechanised, Others or	Fully mechanised	
	Manual)		
30	Captive/Non Captive	Captive mine	
31	Valid EC capacity	4.2 million tons	
32	Validity of bank guarantee	Rs 92100000/- upto 31.03.2023	
54	, analy of ouring Summined	100 = 1000000  up to $51.05.2025$	

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

SN	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	36	27	
1b	Exploration over lease area for Geological axis 1 or 2.	129.65 ha. area is to be converted in G1 from existing G2 in 2019-20 & 2020-21	In 2019-20 less than 50% area covered	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Nil	Rs. 5523565.75	24 Holes (2738m.)
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	NA	
1e	Balance reserves as on 01.04.2020 (Million.Ton)		213.0 (111) 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 places limestone is exposed to surface due
	etc.	to weathering effect. The lease area is broadly explored in
		G1 & G2.

	Development			
SN	Item	Proposals (19-20)	Actual work(19-20)	Remarks
2a	Location of development w.r.t. lease area	North pitN2383137.6304 to N 2383026.0552 E 600774.2948 to E 601672.9333 &2382075.5094 to 601575.6825 E601032.1469 to 601575.6825 286 RL to 242 RL	North pit Broadly in proposed area. South pit No work done.	
		N2383271.5915 to N2382938.0699E5996 54.6674 to E 600227.9736 271-242 <b>South</b> <b>pit</b> N2381140.0085 to N2380746.7988E5992 11.8320 to E599698.7968284 RL to 265 RL		
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	OB bench- 1 nos. Mineral bench-5 Nos	OB bench-1 nos. Mineral bench-3 Nos.	
2c	Stripping ratio or ore to OB ratio (MT/Cub M)	1:0.14	1:0.10	
2d	Quantity of topsoil generation in m <sup>3</sup>	21223	7025	
2e	Quantity of overburden generation in m <sup>3</sup>	471624	281338	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	1	oadly as per proposal l development is broadl	

# **3.0 Exploitation**

SN	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	02	01	
3b	Quantity of ROM mineral production proposed	4200000 MT	2708457MT	
3c	Recovery of salable/usable mineral from ROM production	90%	Approx 97%	
3d	Quantity of mineral reject generation	187500MT	77164 MT	
3e	Grade of mineral reject generation and threshold value declared	<34% CaO	<32.90 % CaO	
3f	Quantity of sub-grade mineral	204952	Nil	

	generation.			
3g	Grade of sub-grade mineral	34-40% CaO	NA	
-5	generation.	51 10/0 040	1 17 1	
3h	Manual / Mechanised method	Mechanised	Mechanised	
511	adopted for segregating from ROM	Wieenamsea	Wieenamsea	
3i	Any analysis or beneficiation study		Regular analysis	
51	proposed & carried out for sub-grade		of sub-grade	
	mineral and reject		mineral and	
	inneral and reject		reject are being	
			done.	
2:	Provision of drilling & blasting in	For proportion of		
3j	Provision of drilling & blasting in	For preparation of	1 I	
	mineral benches	blast hole the primary	of blast hole the	
		drilling is done by	drilling is done	
		115/150 mm Dia	by 115& 150	
		crawler mounted DTH	mm dia crawler	
		drills.	mounted DTH	
		Spacing-6 M.	drills.	
		Burden- 4 M.	Spacing: 5-7 M.	
		Depth of hole 8.5 M	Burden:3.5-4.5	
		Subgrade- 0.5 M	M.	
		Blasting is done in	Depth of hole 5-	
		staggered pattern with	9 M	
		SME, ANFO and	Subgrade- 0.5 M	
		NONEL.	Blasting is done	
			in staggered	
			pattern with	
			SME, ANFO and	
			NONEL.	
3k	Provision of mining machineries in	Shovel 6.5 cum,	Broadly as per	
	mineral benches.	Dumper 60 tons, drill	proposal	
		m/c 115 mm &		
		152mm,loader,Dozer		
31		Yes the height of	Top slicing of	
	overburden and mineral suitable for		mix bench with	
	method of mining proposed in	Ore bench 7-8 m	3.5 mtr height	
	MP/SOM		and OB bench- 2-	
			4.5 mt.	
			Ore bench 4-8	
			mt. height has	
		100 (10	been maintained.	
3m	Total area covered under	190.643 Ha.	169.98 Ha.	FY 19-20
	excavation/pits			
3n	Ore to OB ratio for the pit/mine	1: 0.115	1:0.18	FY 19-20
	during the year			
30	Total area put in use under different	Pit-190.643 Ha	Pit- 169.98 Ha	In-pit
	heads at the end of year	Waste/reject-	Waste/reject-	temporary
		22.323На	18.756На	dump.
		Others – 26.108	Others- 20.648	
3p	Production of ROM mineral during	2015-16-4200000	3083282	
	last five-year period, as applicable	2016-17- 4200000	3467193	
	(in MT)	2017-18- 4200000	2821517	
		2018-19- 4200000	3538259	
		2019-20 - 4200000	2708457	
3q	General remarks of inspecting officer	The method of mining is	by open cast metho	d using
Ê		L E	-	-

on	method of mining etc.	HEMM and deephole blasting. The production and
		development is in lower side.

4.0 Sond waste Management-Dumping	4.0 Solid	Waste Management-Dumping	
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SN	Item	Proposals	Actual work	Remark
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Concurrent use of top soil and separate dump for OB & mineral reject has been proposed.	Concurrent use of top soil is being done and separate dumping of OB & reject is being done.	S
4b	Location of topsoil, OB & mineral reject dumps	In Pit- temp dump (O.B.)N2382405.3494 to N2382220.7141 E600603.6340 to E600930.2929 RL : 265 to 250 Bardih Dump N2381220.3233to N2380760.5162E60102 9.8301to E601344.7505 RL : 288 to 304 Subgrade dump N2382940.5970 to N 2382864.9510 E600500.4790 to 600758.2562 250 to 258mRL	In Pit- temp dump (O.B.) Broadly as per proposal Bardih Dump N2382401.4457 to N2382241.0662 E600661.4997 to E600894.8244 RL : 288 to 300 Subgrade dump Dumping not started. And screen reject dumping is not as per proposal	
4c	Number of dumps within lease area and outside lease area	02 nos.OB within lease area and 1 mineral reject dump	02OB within lease area & 2 mineral reject dump.	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Covered in 4b	Covered in 4b	
4e	Number of active & alive dumps	02	03	
4f	Number of dead dumps	NA	NA	
4g 4h	Number of dumps stabilized Whether Retaining wall or garland drain all along dumps are there	01 Garland drain provided	01 Garland drain provided	
4i	Length of Retaining wall or garland drain all along dump		Length of garland drain all along dump is 1168 mtr.	
4j 4k	Number of settling ponds Specific comments of inspecting officer on waste dump management		03 adly as per proposal except view point and garland drain to divert the water.	

# 5.0 Solid Waste Management-Backfilling

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5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Area is premature for back filling.	Area is premature for back filling.	
5b	Area under backfilling of mined out area	NIL	NIL	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	yes	yes	Being used for carpeting of dump for plantation
5d	Total area fully reclaimed & rehabilitated	NIL	NIL	
5e	General remarks of inspecting officer on backfilling, reclamation etc.	Area is premature for back done in working pit.	s filling but temporary du	imping is

#### 6.0 Progressive Mine Closure Plan

SN	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 23E(2). Details should be given in the format as given in Annexure-	Yes	Yes	
	20.			
6b	Management of worked/mined out benches i) Area available for	0.00	0.000	
	rehabilitation (ha) ii) Afforestation done (ha) iii) No. of saplings planted during the year iv) Cumulative no. of plants v) Any other specific method of rehabilitation	1.796 4490	5.105 12500 205962	Nil
	vi) Cost incurred on watch & care during the year		300000/-	
6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for	Nil	Nil	
	backfilling (L X B X D) ii) Void filled by waste/tailings iii) Afforestation on the	Nil	Nil	
	backfilled area iv) Rehabilitation by making water reservoir v) Any other specific means	Nil	Nil	
6d	Compliance of Rehabilitation of waste land within lease . i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	NA Concurrent backfilling and plantation on dump.	Concurrent backfilling and plantation on dump.	

6e	Compliance of Environmental monitoring (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.			
	Aineral 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 Separation) is being done to separate clayey-soil & shale in the limestone before crushing. By using pet cock the quality requirement of plant was decreases hence screen generation was also decreases during the year.			

## 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.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use		NA.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc.)	As per mining plan.	Being done.	

8f	Baseline information on existence of plantation & additional plantation done (Rule 41)		Total of 205926 nos. plantation in 64.81hect.area up to March, 2020.		
8g	Survival rate		80%		
8h	Water sprinkling on roads to control airborne dust	28KL and 8KL taker proposed for Water sprinkling on roads	Water sprinkling on roads is being done by 28KL and 8KL tanker to control airborne dust.		
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	The lessee as per proposal complied all environment protection measures i.e. plantation, water sprinkling for dust suppression, monitoring of Air, water, noise, etc therefore no such adverse impact observed on aesthetic beauty in and around mines area.			
9.0 Compliance of Rule 45					

2.0 0							
SN	Item				COMMENTS	Remarks	
9a	Status	of	submission	of	Monthly Returns Submitted upto – Dec., 2020		
	Monthly	and	Annual returns		Annual returns submitted upto- 2019-20		

SN	Item	Details GIVEN in A.R.	Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Yes given	Shri Anil D Kawale, Mining Engineer & Manager, Shri Vijesh Kushwaha, Geologist	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Yes given	Area under O/C working 169.98 ha., waste disposal 18.756 ha. , Infrastructure & roads 20.904 ha.	
9d	Scrutiny of Annual return on afforestation		12500 nos	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)		77164 tons & 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		Captive,Ex. Mine price & production cost Rs241.43/-	
9i	Scrutiny of Annual return on fixed assets	Rs 857121245/-		
9k	Scrutiny of Annual return on mining machineries.	Yes given		

10- Details of violations observed during current inspection and compliance position of earlier violation pointed out: - The earlier violation taken compliance. During present inspection Rule 11(1), 31(4), 37(1) & 48 found violated.

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