MCDR INSPECTION REPORT

1.0 **GENERAL**

SN	Particulars	Details
1	Name of inspecting office & designation	Rajesh Kumar Das (Sr. Asst. Controller of Mines)
		& J. S. Hada (AMG)
2	Date of inspection	05.07.2018
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 period & expiry	22.02.2013 for 30 years and valid up to 21.02.2043
18	Date of second Renewal, if applicable and its period & expiry	NA
19	Date of submission of renewal application if Mining Operations are continuing under	09.02.2012
20	deemed extension	W 0 1 1 D 11
20	Name of the Nominated Owner with	Mr. Omprakash Purnamalka
	Address, phone, email, fax number and date	Ahura Centre, B Wing,
	of appointment.	2nd floor, Mahakali Caves Road
		Andheri (E) Mumbai 400093. Mobile- 9702474200
		Email- ajit.ostwal@adityabirla.com DOA: 18.07.2017
21	Name of the Mine Agent with Address,	Shri K. C. Jain
<i>L</i> 1	phone, email, fax number and date of	UltraTech Cement Ltd.
	appointment	Hirmi Cement Works, PO – Hirmi,
	appointment	Dist. BalodaBazar-Bhatapara
		09826909505
		Phone - 07726281217/18/19/20/21
		Fax - 07726-281572
		Kushal.jain@adityabirla.com
		DOA:28.11.2017
22	Name of the Mines Manager with Address,	Shri O. R. Khelkar

	phone, email, fax number and date of			
	appointment in mines	Hirmi Cement Works, PO – Hirmi,		
		Dist. BalodaBazar- Bhatapara		
		09826300229		
		Phone - 07726281217/18/19/20/21		
		Fax - 07726-281572		
		omprakash.khelkar@adityabirla.com		
		DOA: 24.01.2014		
23	Name of the Mining Engineer, Qualification	Shri O. R. Khelkar		
	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		
		omprakash.khelkar@adityabirla.com		
		DOA: 10.02.2018		
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 Review Mining Plan		
	Mining Plan with five-year period and	17.11.2017 and valid up to March 2023.		
	specific condition in approval letter, if any.			
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		

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

SN	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	3	3	
1b	Exploration over lease area for Geological axis 1 or 2.	G1& G2	G1& G2	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	NIL	Rs.464775	
1d	Balance area to be explored to bring Geological axis in 1 or 2	NA	NA	
1e	Balance reserves as on 01.04.2018 (million tons)		219.142 (111) 32.947 (121, 122)	
1f	General remarks of inspecting	The lease area is broadly	explored and depthwis	se below 40

	officer	on	geology,	exploration	meter still exploration to be done to delineate the ore body
	etc.				

2.0 Development

SN	Item	Proposals (17-18)	Actual work(17-18)	Remarks
2a	Location of development w.r.t.	North pitX= -242 to	North pit	
	lease area	1558 Y=	X = -230 to 1498Y =	
		141 to 1126	134 to 1057286 RL to	
		286 RL to 242 RL	250 RL	
		South pitX= 157 to -	South pitX= -90 to -	
		341Y = -2642 to -	485Y = -2600 to -	
		3122284 RL to 265	2965285.5 RL to 268	
		RL	RL	
2b	Separate benches in topsoil,	OB bench- 1 nos	OB bench- 1 nos.	
	overburden and mineral (Rule	Mineral bench-5 Nos	Mineral bench-5 Nos.	
	15)			
2c	Stripping ratio or ore to OB	1:0.30	1:0.28	
	ratio			
2d	Quantity of topsoil generation	24725	19076	
	in m ³			
2e	Quantity of overburden	696861	525366	
	generation in m ³			
2f	General remarks of inspecting	The pit is developed bro	adly as per the proposal a	nd within the
	officer on development of pit	proposed limit		
	w.r.t. type of deposit etc.			

3.0 Exploitation

	5.0 Exploitation							
SN	Item	Proposals	Actual work	Remarks				
3a	Number of pits proposed for production		02					
3b	Quantity of ROM mineral production proposed	4200000 MT	2858385MT					
3c	Recovery of salable/usable mineral from ROM production							
3d	Quantity of mineral reject generation	273000 MT	36868 MT					
3e	Grade of mineral reject generation and threshold value declared	<34% CaO	<32.90 % CaO					
3f	Quantity of sub-grade mineral generation.		25400					
3g	Grade of sub-grade mineral generation.	-	34-40% CaO					
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised					
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject		Regular analysis of sub-grade mineral and reject are being done.					
3j	Provision of drilling & blasting in mineral benches	For preparation of blast hole the primary drilling is done by 150 mm dia crawler	blast hole the drilling					

Sr.No	Equipment Description		Nos.	Cap	acity	Make & mode	el
1	Dumper	5		60 MT		Komatsu-HD 4	165-7
2	Dumper	7		60 MT		BEML- BH 50	
3	Excavator	3		6.5 CU	M	Komatsu-PC 1	250
4	Excavator	1		4.0 CU	M	L & T -CK-300	0
5	Drill	2		150 mr	n	Atlas Copco-II	
6	Drill	1		115 mr	n	DP1100i - San	
7	Loader	1		3.0 CU	M	Komatsu WA	
8	Dozer	2		350 HF)	Komatsu-D 15	
9	Backhoe cum Rock breaker	1		324 HF	•	L & T CK-30 Atlas Copco	
10	Water Tanker	1		28 KL		BEML WS28	
11	Water Tanker	1		8 KL		Tata-1612	
3k Pi	rovision of mining	Spac Burd Dept Subg Blast stagg SME NON	EL.	.5 M M one in rn with and	Spacing Burden Depth of Subgra- Blastin stagger SME, NONE	ed DTH drills. g: 5-7 M. :3.5-4.5 M. of hole 5-9 M de- 0.5 M g is done in ed pattern with ANFO and L. es are as under:-	
	achineries in mineral benches.						1
31	Whether height of benches overburden and mineral sui for method of mining propose MP/SOM	table	Yes the h OB bench Ore bench	n- 2-4.5 i	m m 3. ar 4. O m	op slicing of ix bench with 5 mtr height ad OB bench- 2-5 mt. re bench 4-8 t. height has been maintained.	
3m	Total area covered u excavation/pits	ınder	173.30На	1.		60.580 Ha.	FY 17-18
3n	Ore to OB ratio for the pit/s during the year	mine	1:0.30		1:	0.28	FY 17-18
30	ŭ i	inder ar	Pit-173.3 Waste/rej 16.297Ha Others- B 2.2 Ha	ect-	W 18	t- 160.580Ha Vaste/reject- 3.2360 Ha ackfilling- 5.01	In-pit temporary dump.
3p	Production of ROM mineral du last five-year period, as applic (in MT)		2013-14- 2014-15- 2015-16- 2016-17- 2017-18-	4200000 4200000 4200000	36 30 32	258651 516205 983282 467193 321517	Low production is mainly due to low demand of Cement in market.
3q	General remarks of inspectofficer on method of mining et	_	The meth	od of mi	ning is b	y fully mechanis	ed using

	HEMM. The information of machineries already furnished. The production is less with respect to proposal

4.0 Solid Waste Management-Dumping

SN	Item	Proposals	Actual work	Remarks	
4a	Separate dumping of topsoil,	Concurrent use of top	Concurrent use of top		
	OB & mineral reject (Rule 32,	soil and separate dump	soil is being done and		
	33)	for OB & mineral reject	separate dumping of		
		has been proposed.	OB & reject is being		
			done.		
4b	Location of topsoil, OB &	Dump	Dump X: -172 to -		
	mineral reject dumps	X: -172 to -401	401Y: -821 to -		
		Y: -792 to -1088	1088RL : 269 to 260		
		RL: 270 to 260	Peripheral		
		Peripheral dumping	dumping X :+720 to		
		X: +720 to +1012	+1012		
		Y: -2230 to -2490	Y: 2230 to 2490		
		RL: 280 to 286	RL: 280 to 286		
4c	Number of dumps within lease	03 nos within lease area	03 within lease area.		
	area and outside lease area				
4d	Location of dumps w.r.t.	Covered in 4b	Covered in 4b		
	ultimate pit limit (Rule 16)				
4e	Number of active & alive				
	dumps	03	03		
4f	Number of dead dumps	01	01		
4g	Number of dumps stabilished	01	01		
4h	Whether Retaining wall or	Garland drain provided	Garland drain		
711	garland drain all along dumps	Gariana dram provided	provided		
	are there		provided		
4i	Length of Retaining wall or		Length of garland		
'1	garland drain all along dump		drain all along dump		
	guiland diam an along dump		is 125 mtr.		
4j	Number of settling ponds	NA	NA		
4k	Specific commends of	l i i			
	inspecting officer on waste	dumping is done in excavated pit.			
	dump management	damping is done in excuvated pit.			
	dump management				

5.0 Solid Waste Management-Backfilling

SN	Item	Proposals	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Backfilling has been proposed in mined out area.	Area is premature for back filling.	
5b	Area under backfilling of mined out area			
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		10.93	
<i>F</i> a		Amagia mat matumad famba	alrEllin a	
5e	General remarks of inspecting officer on backfilling,	Area is not matured for ba	ckilling.	
	reclamation etc			

6.0 Progressive Mine Closure Plan

	Progressive Mine Closure Plan		<u></u>	Т
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	3.678	0.000	
	rehabilitation (ha)			
	ii) Afforestation done (ha)	1.97	1.97	Gap filling
	iii) No. of saplings planted	2950	5000	Sup mining
	during the year	2730	190986	
	iv) Cumulative no. of plants		170700	
	v) Any other specific method			
	of rehabilitation		220000/-	
			220000/-	
	vi) Cost incurred on watch &			
	care during the year			
6c	Compliance on reclamation			
	and rehabilitation by			
	backfilling			
	i) Voids available for	363 x 275 X 15	220 x 175 x 15	
	backfilling (L X B X D)			
	ii) Void filled by waste/tailings	2.06 Ha.	0.34 Ha.	
	iii) Afforestation on the			
	backfilled area	Nil	Nil	
	iv) Rehabilitation by making			
	water reservoir			
	v) Any other specific means			
6d	Complianceof Rehabilitation	NA		
	of waste land within lease.			
	i) Afforestation			
	ii) Area rehabilitated (ha)			
	iii) Method of rehabilitation	Concurrent backfilling	Concurrent	
	,	and plantation on dump.	backfilling and	
		- F	plantation on dump.	
6e	Compliance of Environmental	Enclosed.	Enclosed.	
	monitoring (core zone & buffer			
	zone)			
	Zono)			
6f	General remarks of inspecting		1	ı
	officer on PMCP compliance	The PMCP work is done broadly as per proposal		
	& progressive	THE THIEF WORK IS GOILE	crowdry do por proposur	
	~ progressive			

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	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.	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	The ROM is directly beneficiation except sizing	feed in Crusher and	there is no

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	planned	Part of waste rock, rejects are concurrent being used for restoring the land to its original use and remaining are being at, in pit temporary dump.	

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 190986 nos. plantation in 58.66 hect. area up to March 2018.	
8g	Survival rate		80%	
8h	Water sprinkling on roads to control airborne dust	28KL and 8KL taker proposed for Water sprinkling on roads		
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	EMP parameters are regularly being monitored. Well developed thick plantation within and outside the lease area. Due to plantation around the mining area aesthetic beauty increased. Regular water sprinkling is done to suppress the dust and wet drilling is report to avoid dust hazard.		

9.0 Compliance of Rule 45

SN	Item				COMMENTS	Remarks
9a	Status	of	submission	of	M.R. Submitted upto – July -2018	
	Monthly	y and	Annual returns	5	A.R. submitted upto- 2017-18	

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	Shri O.P.Khelkar,Mining Engineer & Shri Vijesh	
	111111111111111111111111111111111111111		Kushwaha, Geologist	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Yes given	Area covered under O/C working-160 ha.,17.836 ha waste disposal,19.251 ha infrastructure	
9d	Scrutiny of Annual return on afforestation	yes	5000 nos saplings within lease	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Yes given	36868 te, 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	Ex.Mine price 244.35 & cost of production rs 226.90.		
9i	Scrutiny of Annual return on	Not mentioned		

	fixed assets		
9k	Scrutiny of Annual return on	Information given	
	mining machineries.		

10- Details of violations observed during current inspection and compliance position of earlier violation pointed out:- The mine was inspected for processing of Modification of Mining plan and Star rating and during inspection no serious violation observed.

(Rajesh Kumar Das, SrACOM, 05.07.2018)