INDIAN BUREAU OF MINES MINERALS DEVELOPMENT AND REGULATION DIVISION

MCDR INSPECTION REPORT

Nagpur regional office

Mine file No : MAH/CND/LST- 4/NGP Mine code : 38MSH08001

(i) Name of the Inspecting : GQ02) OM PRAKASH GOPAL

Officer and ID No.

(ii) Designation : Regional Mining Geologist

(iii) Accompaning mine : Sh. S. Ghosh Agent, R. K Mishra Geologist & QP, Shala

Official with Designation

(iv) Date of Inspection : 06-Dec-22
(v) Prev.inspection date : 08-Mar-22

PART-I : GENERAL INFORMATION

(a) Mine Name : NAOKARI

(b) Registration NO. : IBM/441/2011

(c) Category : A Mechanised

(d) Type of Working : Opencast

(e) Postal address

State : MAHARASHTRA
District : CHANDRAPUR
Village : NAOKARI
Taluka : KORPANA

Post office : AWARPUR CEMENT WORK

Pin Code : 442917

FAX No. : 07173- 266341

E-mail : amathawale@adityabirla.com

Phone : 07173- 266330

(f) Police Station : GADCHANDUR
(g) First opening date : 21-Apr-82

(h) Weekly day of rest : SUN

2. Address for : P.O.- AWARPUR CEMENT PROJECT, correspondance DISTT. - CHANDRAPUR (MS) 442 917

3. (a) Lease Number : MSH0007 (b) Lease area : 1030.58 (c) Period of lease : 50

(d) Date of Expiry : 31-Mar-30

4. Mineral worked : SHALE Associated

LIMESTONE Main

5. Name and Address of the

Lessee : M/S ULTRATECH CEMENT LTD.

CHANDRAPUR MAHARASHTRA

Phone: FAX:

Owner : SHRI V.T.MOORTHY

UNIDENTIFIED TAMIL NADU

Phone: FAX:

Agent : SHRI A.M.ATHAWALE

CHANDRAPUR MAHARASHTRA

Phone: FAX:

Mining Engineer

Name : SHRI D.D. MAHULE, Full Time

Qualification : BE MINING Appointment/ : 26-Sep-06

Termination date

Geologist

Name : Shri C.N.Joshi, Full Time Qualification : M.Sc.Tech. (Applied Geology)

Appointment/ :
Termination date

Manager

Name : SHRI R.V.SAMBREY
Qualification : DIP. MINING
Appointment/ : 04-Jul-06

Termination date

6.	Date of approval of Mining	:	Modif.of approved Mining Plan	18-Dec-00
	Plan/Scheme of Mining		Modif.of approved Mining Plan	16-Dec-03
			Mining Scheme rule 12 MCDR1988	28-Jul-05
			Mining Scheme rule 12 MCDR1988	21-Jan-11
			Mining Scheme rule 12 MCDR1988	12-Jun-15
			MP review under 17(1) MCR 2016	23-Dec-19

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	NIL	NIL
1b	Exploration over lease area for geological axis 1 or 2	No exploration proposal for the year 2021-22.	NIL	NIL
1c	Exploration Agencies and Expenditure in lakh rupees during the year	None	None	NIL
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	NIL	Entire mineralised area has already been explored upto G1 level.
1e	Balance reserve as on 01/04/20	Balance Reserves as on 1/11/2019 : 187.77 million tonnes (111), 136.07 million tonnes (121)	NIL	NIL
1f	General remarks of inspecting officers on geology, exploration etc	NIL	NIL	The rock formations of the lease area belongs to Penganga beds of Vindhyan System. The limestone deposit is sandwithed between sandstone, high MgO limestone and shale . Entire mineralised area has alredy been explored upto G1 level.
Dev	elopment :			
Sl.No.	Item	Propasals	Actual work	Remarks

2a	Location of development w.r.t.lease area	A Block: E305540 to 306132 and N2189910 to 2191060 B Block: E306939 to 308527 and N2189260 to 2190100	A Block: E305574 to 306049 and N2190010 to 2190930 B Block: E306939 to 307128 and N2189390 to 2190060	Development within proposed limit
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	_	Seperate benches for OB and mineral are being maintained.	NIL
2c	Stripping ratio or ore to OB ratio	1:0.39	1:0.25	NIL
2d	Quantity of topsoil generation in m3	109066 Tonnes	33054 Tonnes	NIL
2e	Quantity of overburden generation in m3	26,71,600 Tonnes	8,90,285 tonnes	NIL
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	NIL	NIL	Two pits one each in Block A and Block B has been developed and are under active exploitation. The bench height is normally kept 7 m in block A and 8 m in block B.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Two	Two	NIL

3b Quantity of ROM 74,49,830 mineral production proposed

Tonnes

36,23,701 Tonnes

Actual production is is less (49%) than approved proposal. Valid EC is for production of 4.5 million tonnes of ROM and EC for enhanced production (7.5 million tonnes) not obtained so for. Violation of Rule 11(1) for deviation from approved proposal was pointed out vide letter dated 22/9/2022. To address this issue the lessee has submitted Modification in Mining plan which is under process.

3c Recovery of 98% sailable/usable mineral from ROM production

100%

3d Quantity of 67702 tonnes NIL mineral reject generation

It was proposed that screen rejecs of -6mm size will not be used for production of cement as the material is having high SO3 & SiO2/ less than 60 LSF and these material will be stored in Block B towards southern side in Block B. During discussion mine management informed that ROM which is not suitable for cement making at Awarrpur Cement works are now dispatched to Manikgarh Cement plant (sister concern) for blending and cement making and there is no reject generation now.

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3e	Grade of mineral rejects generation and threshold value declared.	SiO2/ less	ROM which is not suitable for cement making at Awarrpur Cement works are now dispatched to Manikgarh Cement plant (sister concern) for blending.	NIL
3f	Quantity of sub grade mineral generation.	NIL	NIL	NIL
3g	Grade of sub grade mineral generation	No such proposal	NIL	NIL
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	NIL
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No such proposal	NIL	NIL
3j	Provision of drilling and blasting in mineral benches	Yes	Conventional method of drilling and blasting in mineral benches are in practice	NIL
3k	Provision of mining machineries in mineral benches	Excavator and dumper combination	As per proposal	NIL
31		height 7 m in block A and 9	Yes, proposed bench height is suitable for mechnised oprations.	NIL
3m	Total area covered under excavation/pits	258.42 ha at the end of plan period ie 31/3/2025.		NIL
3n	Ore to OB ratio for the pit/mine during the year.	1:0.39	1:0.25	NIL

Remarks

30	Total area put in use under different heads at the end of year	to use at the end of Plan period ie. 31/3/2025 are: Area under	Total area put to use at the end of Plan period ie. 31/3/2022 are: Area under Mining- 220.17 ha; Waste dumps 42.38 ha; Storage of top soil 18.39 ha; Plant & building and roads 12.78 ha.	NIL
3p	Production of ROM mineral during the last five year period as applicable	2018-19 -	2017-18 - 3571573 Tonnes; 2018-19 - 3690543 Tonnes; 2019-20 - 3700995 Tonnes; 2020- 21 - 3295745 Tonnes; 2021-22 - 3612820 Tonnes	The mine is captive plant of Awarpur Cement Works and production of limestone depends upon plant's requirement.
3q	General remarks of inspecting officers on method of mining etc.	NIL	NIL	Mining operations are being done by deployent of HEM Mining Machenaries. Two pits one each in Block A and Block B has been developed and are under active exploitation. Bench height is normally kept 7 m in block A and 8 m in block B.

Propasals Actual work

Solid Waste Management - Dumping:

Sl.No. Item

4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	seperate	Generated Top soil and OB are being dumped seperately . Reject generation not reported during 2021-22.	NIL
4b	Location of topsoil, OB and mineral reject dumps	Top soil: N2190403 to 2190533 and E306861 to 307982 Waste Dump DIII (N2190447 to 2190574 and E307428 to 307784) DIV (N2189997 to 2190248 and E308318 to 308525) Screen Reject (N2188846 to 2189010 and E304348 to 308465)	Genrated soil are being utilised for plantation and balaced top soil is being preserved at proposed location. Generation of OB is less than proposal and are being dumped at proposed location. Generation of sceen reject not reported.	NIL
4c	Number of dumps within lease area and outside of lease area	Dumps 4 nos &	As per proposal	NIL
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	All dumps are outsid UPL.	As per proposal	NIL
4e	Number of active and alive dumps.	_	As per proposal	NIL
4f	Number of dead dumps.	5 dumps (Soil dump 3 no & Waste dump 2 nos.)	As per proposal.	NIL

4g	Number of dumps established.	5 dumps (Soil dump 3 no & Waste dump 2 nos.)	As per proposal	NIL
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	Yes	NIL
4i	Length of Retaining wall or garland drain all along dumps	540 m	As per proposal	NIL
4 j	Number of settling ponds	No proposal for construction of settling ponds	NIL	NIL
4k	Specific comments of inspecting officer on waste dump management	NIL	NIL	NIL

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.	No such proposal	NIL	There is no mined out area. Mineral continued in depth thus there is no scope for backfilling
5b	Area under backfilling of mined out area	NIL	NIL	NIL
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NIL	NIL	NIL
5d	Total area fully reclaimed and rehabilitated	NIL	NIL	NIL

5e	General remarks 1	NIL	NIL	There is no mined
	of inspecting			out area. Mineral
	officers on			continued in depth
	backfilling and			thus there is no
	reclamation etc.			scope for
				backfilling and
				reclamation of
				mined out area.

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Annual Report of PMCP should be submitted on or before 1st of July every year for the preceding year		NIL
6b	Area available for rehabilitation (ha) .	NIL	NIL	NIL
6c	afforestation done (ha).	1.6 ha	As per proposal	NIL
6d	No. of saplings planted during the year	4000	As per proposal	NIL
6e	Cumulative no .of plants	Not mentioned	NA	NIL
6f	Any other method of rehabilitation	None	None	NIL
6g	Cost incurred on watch and care during the year	2 Lakhs	As per proposal	NIL
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	NIL	NIL	There is no mined out area thus there is no scope for backfilling.

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NIL	NIL	There is no mined out area thus there is no scope for backfilling
6ј	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestati on on backfilled area	NIL	NIL	There is no mined out area thus there is no scope for backfilling
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NIL	NIL	There is no mined out area thus there is no scope for making water reservior
61	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No such proposal	NIL	NIL
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Aforestatation proposed	As per proposal	NIL
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	0.6 ha	AS per proposal	NIL
60	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	Aforestation	As per proposal	NIL

бр	Compliance of environmental monitoring (core zone and buffer zone)	monitoring in core and	Quarterly environmental monitoring are being done.	NIL
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	NIL	NIL	Progressive Mine closure plan proposals are being implementewd.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual wo	rk	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM dispatch after crushing and sizing		roposal	NIL
7b	Method of grade- wise mineral sorting i.e. manual or mechanical.		NIL		NIL
7c	Different grade of mineral sorted out at mines.	No such proposal	NIL		NIL
7d	Any beneficiation process at mines .	Crushing and Sizing	As per pr	roposal	NIL

7e	General remarks	NIL	NIL	High magnesia
	of inspecting			limestone not
	officer on			suitable for
	Mineral			cement
	conservation and			manufacturing at
	beneficiation			Awarpur Cement
	issues			works which were
				previously stacked
				at mine site as
				subgrade/waste
				dump are being
				dispatched to
				Mankgarh Cement
				works a sister
				concern for cement
				making.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	removal and	Top soil are being removed and stacked seperately and are being utilised as per reurement for plantation purpose.	NIL
8b	Concurrent use or storage of topsoil	Storage and utilisation as per requirement.	As per proposal	NIL
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	for OB/waste rocks and	Dumping of OB/ waste rocks are being done as per proposal. There is no screen reject Generation.	NIL
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No such proposal	NIL	NIL

Comp	liance of Rule	45 :		
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Aforestation inside the lease area	Aforestation are bein done as per proposal	Mining activity leads to distortion of the aesthetic beuty in and around lease area. To overcome this problem water sprinkling is being done on haul roads to arrest dust. Further, afforestation are being done over dump area and waste land.
8h	Water sprinkling on roads to control airborne dust	Yes	Water sprinkling on roads are in practice to control airborne dust.	NIL
8g	Survival rate	No such proposal	90%	NIL
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Proposal for additional plantation	Planation are being done over dumps as per proposal.	NIL
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Reclamation of dumps by plantation.	Plantation done on dump area.	NIL

9a Status of Monthly Return Annula Return for 2021-NIL submission of shall be 22 ahs been submitted. Monthly and submitted Monthly Returns are Annual returns before tenth being submitted in of every month online mode regularely. in respect of preceding month and Annual Return shall be submitted before 1st of July every year in respect of preceding year. 9b Scrutiny of Mining Mining Engineer and NIL Annual return Engineer: Sh. Geologist are in place. for information NK Sharma, on Mining Geologist: Sh. Engineer, RK Mishra, Geologist and Manager: Sh. Manager

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	<pre>abandoned by opencast (O/C) mining : 0.0</pre>		on land apperas		in	NIL
9d	Scrutiny of Annual return on afforestation	Number of trees planted during the year within lease area: 5000; Survival rate: 90%		on afore to be in			NIL
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Mineral rejects generated: NIL	there i	are in o s no rejo ion in 20	ect		NIL

9f	Scrutiny of Annual return on ROM stock and/or graded ore	closing stocks	Reported Details are in order.	NIL
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost		It is captive mine and there is no external sale. Details apperas to be in order.	
9h	Scrutiny of Annual return on fixed assets		No comments on Finencial aspects.	NIL
9k	Scrutiny of Annual return on mining machineries	SHOVEL (HYDRAULIC) 4.00 CUM 2; SHOVEL (HYDRAULIC) 6.5 CUM 2; DUMPER 35.00 TONNE 4; DUMPER 60.00 TONNE 9; BLAST HOLE DRILL (NON ELEC.) 115.0 MM 1; BLAST HOLE DRILL (NON ELEC.) 152.0 MM (Non Electrical) 2; WATER TANKER 20000.0 LITRE 1; WATER TANKER 28000.000 LITRE 2; eXPLOSSIVE VAN 2; FRONT END LOADER 6.5 CUM 1; CRUSHER 850 TPH 1, CRUSHER		NIL

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Details of violations observed during current inspection and compliance position of violation pointed out					
Viola	tion observed		Show couse position		
Rule NO.	Issued on Com	pliance on	Rule NO.	Issued on Compliance on	

Date : (OM PRAKASH GOPAL)

Indian Bureau of Mines