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MCDR inspection REPORT

Jabalpur regional office

Mine file No : UP/SONEBHADRA/LST-5

Mine code : 38UPR56001

- (i) Name of the Inspecting : **SQ25**) **IBRAHIM SHARIEF**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Shri Vivek Khosla, Agent, Shri Atul Gahrana (Geologist)
Official with
Designation
- (iv) Date of Inspection : 31-JUL-23
- (v) Prev.inspection date : 20-SEP-21

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **DALLA (KAJRAHAT) (751.0HA)**
- (b) **Registration NO.** :
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
State : UTTAR PRADESH
District : SONBHADRA
Village : KAJRAHAT & PADRACH
Taluka : Robertsgunj
Post office : Dalla
Pin Code : 231207
FAX No. : NA
E-mail : NA
Phone : NA
- (f) Police Station : Chopan
- (g) First opening date : 01-FEB-07
- (h) Weekly day of rest : SUN
2. Address for : Shri. Kailesh Chandra Jhanwar, Nominated Owner and Director
correspondance DALLA CEMENT WORKS, VILL. KOTA, P.O. DALLA,
DISTT. SONEBHADRA (U.P.)
3. (a) Lease Number : UPR0007
(b) Lease area : 370.37
(c) Period of lease : 50 Years
(d) Date of Expiry : 31-MAR-30
4. Mineral worked : LIMESTONE Main

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5. Name and Address of the

Lessee : M/s Ultra Tech Cement Ltd.
901, Satguru Towers, JN of
North and Central Santa Cruz
West, Mumbai,
Maharastra - 400054 Phone:

Owner : Shri. Kailesh Chandra Jhanwar,
Nominated Owner and Director
M/s Ultra Tech Cements Ltd.,
Email :
kailashjhanwar@adityabirla.com

Agent : Shri VIVEK KHOSLA,
Dalla Cement Works
vivek.khosla @adityabirla.com
Date of Appointment - 21/12/2019

Manager : Shri D.K. PANDEY
dharmendra.pandey@adityabirla.com

Mining Engineer: Shri Jatin Singh, BE Mining,
UltraTech Cement Limited
jatin.singh@adityabirla.com

Geologist : Sri Manisa Naidu, MSc Geology,

6. Date of approval of Mining Plan/Scheme of Mining : Mining Scheme rule 12 MCDR1988 28-AUG-07
Mining plan vide letter no.MP/Sonbhadra/
limestone/MPLN/MOD-14/2022-23 dated 13-OCT-21

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PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	104 no. of bore holes with 6375 meterage to be drilled during the year 2021-22	25 no. of bore holes with 637.00 meterage is drilled so far	Violation was pointed out for deviation
1b	Exploration over lease area for geological axis 1 or 2	365.805 HA area in G4 to be brought under G1	About 35 Ha are is bought under G1 scale	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Lessee, not estimated	Lessee, Rs 4136250/-	
1d	Balance area to be explored to bring Geological axis in 1 or 2	365.805 HA area in G4 to be brought under G1	Only 35.0 Ha area is explored remaining lease area is to be explored	Violation for lack of exploration as proposed is pointed out.
1e	Balance reserve as on 01/04/20	Reserves as on 01.04.2022: 352836 Tonnes Reserves to be depleted during the year 2022-23 : 38694 Tonnes. Balance Reserves : 314412 Tonnes	Reserves as on 01.04.2022: 352836 Tonnes Reserves depleted during the year 2022-23 : 386194 Tonnes. Balance Reserves : 319202 Tonnes as on 01.04.2023	

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1f General remarks
of inspecting
officers on
geology,
exploration etc

Geology: - The area is situated south of the Kaimur hills, Sone River, & east of Rihand River. Out of total ML area the Limestone formation is confined to mainly hilly portion or outcropped areas. The deposit of the area is bedded with 600 to 850 towards north. The Limestone formation is massive and dolomite patches and concealed under a thick alluvial cover.
Exploration: 35 ha area is explored against 365.805 ha area to be explored in G1 scale. Violation was pointed out for deviation.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area			
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No proposal	Nil	
2c	Stripping ratio or ore to OB ratio	1 : 0.03	1:0.02	
2d	Quantity of topsoil generation in m3	No proposal of generation of top soil during the year	No Top soil is generated during the year	

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2e	Quantity of overburden generation in m3	25 cum	Nil	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Development activity is carried out as per proposal.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Two, Pit-1 and Pit-2	One, Pit-1	
3b	Quantity of ROM mineral production proposed	38619 Tonnes	33634 Tonnes	
3c	Recovery of sailable/usable mineral from ROM production	95%	83%	
3d	Quantity of mineral reject generation	5% (2033Tonnes)	17 % (7017 Tonnes)	
3e	Grade of mineral rejects generation and threshold value declared.	Less than 34% CaO	Less than 34% CaO	
3f	Quantity of sub grade mineral generation.	No proposal during the year	Nil	No sub grade mineral generated
3g	Grade of sub grade mineral generation	Not applicable	Not applicable	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised method to be adopted for srgration from ROM	Mechanised method adopted for srgration from ROM	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	NIL	No such analysis or beneficiation study carried out for sub-grade mineral and reject

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3j	Provision of drilling and blasting in mineral benches	Deep hole drilling and Blasting with High Explosives	Deep hole drilling and Blasting with High Explosives are being used	
3k	Provision of mining machineries in mineral benches	Excavator 1.4M3 capacity with combination of Tipper- 10 T is proposed to be deployed	Excavator 1.9M3 capacity with combination of Tipper- 10 T is deployed in mineral benches	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes, 9 meters bench height is suitable in Mineral bench	yes Suitavble	
3m	Total area covered under excavation/pits	2.42	0.539	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.03	1:0.02	
3o	Total area put in use under different heads at the end of year	Pit: 2.42 Dump- Nil Road: 1.30 Hect. Infra. 2.10 Hect. office	Pit: 0.539 Dump - Nil Road: 1.30 Hect, Infra.: 2.10 Within FA limit	
3p	Production of ROM mineral during the last five year period as applicable	18-19 Nil 19-20 Nil 20-21 Nil 21-22 38694.00 22-23 38619.00	18-19 Nil 19-20 Nil 20-21 Nil 21-22 Nil 22-23 33634.00	
3q	General remarks of inspecting officers on method of mining etc.			Fully mechanised method of mining with HEMM is adopted to vcarry out mining operations

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Seperate dumping of OB and Mineral reject to be maintained	Waste dump is maintained seperately.
4b	Location of topsoil, OB and mineral reject dumps	N2705756 to N 2705769 & E 709008 - E709013	N2705756 to N 2705769 & E 709008 - E709013
4c	Number of dumps within lease area and outside of lease area	One dump within lease area	One dump within lease area
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Within UPL	Within UPL
4e	Number of active and alive dumps.	One Dump	One Dump
4f	Number of dead dumps.	Nil	Nil
4g	Number of dumps established.	No proposal	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes Retaining wall and Garland drain along dumps shall be maintained	Nil
4i	Length of Retaining wall or garland drain all along dumps	555 Meters length of Retaining wall and 710 meters Garland drain is to be maintained	No retaining wall and Garland drain is maintained.
4j	Number of settling ponds	no proposal	Nil
4k	Specific comments of inspecting officer on waste dump management		waste dump is maintained

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
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5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	No proposal, as no area is mined out fully	Nil	
5b	Area under backfilling of mined out area	No proposal	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal	Nil	
5d	Total area fully reclaimed and rehabilitated	No proposal	nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			No area is mined out fully, hence backfilling is not applicable

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).	yes proposed to be submitted before 1st July.	PMCP report submitted in time	
6b	Area available for rehabilitation (ha) .	No proposal as no mined out benches are available.	Nil	
6c	afforestation done (ha).	There is proposal to plant 0.08 Ha area with 200 sapplings .	18505 Nos. plantation carried out	
6d	No. of saplings planted during the year	No proposal as no mined out benches are available.	Nil	
6e	Cumulative no .of plants	No proposal as no mined out benches are available.	Nil	

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6f	Any other method of rehabilitation	No proposal	Nil
6g	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 (L x B x D	No proposal	nil
6i	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)Afforestation on on backfilled area	No proposal	nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	nil
6l	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	No proposal	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal	Nil

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6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal	Nil	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Environment monitoring (core zone & buffer zone) is to be carried out regularly	Environment monitoring is being carried out regularly	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Environment monitoring is done. Plantation is done on non-mineralised Area in Mines. Some plantation is done outside lease.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM produced to be dispatched	ROM produced from mine is being dispatched	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	mechanised method to be adopted for mineral sorting	mechanised method adopted for mineral sorting	
7c	Different grade of mineral sorted out at mines.	No proposal	Nil	
7d	Any beneficiation process at mines .	Mechanised Crushing and Screening is proposed	Mechanised Crushing and Screening is adopted.	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			The screen reject is separated at crusher and cement grade limestone is sent to factory by conveyor belt.

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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal of generation of Top Soil	nil	
8b	Concurrent use or storage of topsoil	No proposal	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Dumps for overburden and mineral reject to be maintained seperately	Dump is maintained	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	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)	1000 Nos. to be planted	18505 Nos. planted	
8g	Survival rate	80%	65%	
8h	Water sprinkling on roads to control airborne dust	water sprinkling arrangement to be made to suppres the dust	water sprinkling arrangement is there	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			plantation is being done.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	Annual return and Monthly return to be submitted in time	Annual Returns (G-1) 2022-23: - Submitted on dated 29/06/2022 Monthly Returns (F1) Month July -2023:- Submitted on 09/08/2023
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer: - Jatin Singh. Geologist:- Atul Gahrana	Above are employed
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit: 0.539 Dump -Nil Road: 1.30 Hect, Infra.: 2.10	Pit: 0.539 Dump -Nil Road: 1.30 Hect, Infra.: 2.10
9d	Scrutiny of Annual return on afforestation	Nil	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Nil	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex Mine Price Rs. 247.39, Cost of Production- Rs. 247.39	Ex Mine Price Rs. 247.39, Cost of Production- Rs. 247.39
9h	Scrutiny of Annual return on fixed assets	Nil	Nil
9k	Scrutiny of Annual return on mining machineries	SHOVEL (HYDRAULIC) 1.900 CUM 1 DOZER 301.000 HP 1 TIPPER 12.000 CUM 3	SHOVEL (HYDRAULIC) 1.900 CUM 1 DOZER 301.000 HP 1 TIPPER 12.000 CUM 3

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Details of violations observed during current inspection and compliance position of violation pointed out

Violation observed			Show cause position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on
MCDR17	Rule 11(1)	08-SEP-23			
MCDR17	Rule 31(4)	08-SEP-23			
Rule 34		08-SEP-23			

Date :**(IBRAHIM SHARIEF)**

Indian Bureau of Mines