

**INDIAN BUREAU OF MINES
MINERALS DEVELOPMENT AND REGULATION DIVISION**

Review and updation of Mining Plan REPORT

Hyderabad regional office

Mine file No : AP/KNL/LST-190/HYD

Mine code : 38APR11130

- (i) Name of the Inspecting : ~~M001~~) S K MUDULI
Officer and ID No.
- (ii) Designation : Junior Mining Geologist
- (iii) Accompanying mine : Shrawan Kumar Shukla(Mining Engineer), Rittesh Chatta
Official with
Designation
- (iv) Date of Inspection : 18/10/2017
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : JSW LIMESTONE MINE
- (b) **Registration NO.** :
- (c) **Category** : A Mechanised
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : ANDHRA PRADESH
- District : KURNOOL
- Village : BILAKALAGUDUR
- Taluka : GADIVEMULA
- Post office : GADIVEMULA
- Pin Code : 518508
- FAX No. :
- E-mail :
- Phone : 08514202304,202305
- (f) **Police Station** : Gadivemula
- (g) **First opening date** : 01/04/2008
- (h) **Weekly day of rest** : SUN
2. **Address for** : Bilakalgudur village,
correspondance Gadivemula Mandal
Kurnool district.
3. (a) **Lease Number** : APR2820
- (b) **Lease area** : 617.57
- (c) **Period of lease** : 20
- (d) **Date of Expiry** : 24/04/2028
4. **Mineral worked** : LIMESTONE Main

5. Name and Address of the

Lessee : JSW CEMENTS
 403, SAI RAM ENCLAVE
 SRINIVAS NAGAR NANDYAL
 KURNOOL ANDHRA PRADESH
 Phone:
 FAX :

Owner : RAJIV DUBE
 ADITYA BIRLA CENTRE, SK
 AHIRE MARG, WORLI MUMBAI
 (SUBURBAN) MAHARASHTRA
 Phone:
 FAX :

Agent : G.Veerababu
 Village:Bilakalagudur
 P.O.:Gadivemula Kurnool
 KURNOOL ANDHRA PRADESH
 Phone: 08514202304
 FAX :

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	16/10/2007
Plan/Scheme of Mining	:	Modif.of approved Mining Plan	02/12/2008
	:	Modif.of approved Mining Plan	21/08/2012
	:	Mining Scheme rule 12 MCDR1988	07/10/2013

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	
1b	Exploration over lease area for geological axis 1 or 2		303.90 Ha under G-1 & G-2.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No Proposal	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	NA	No	46.67 Ha to be explored under G-1 & G-2.
1e	Balance reserve as on 01/04/20	-	Reserves- 94.06 million tonnes Resources- 221-59156 tonnes, 222-12178545 tonnes, 331-9527170 tonnes, 332-103185524 tonnes, 333-162712158 tonnes	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N1352 to N 1800 & E 1814 to E 2200, N 289 to 846 & E 1000 to 1600. 245 RL to 212 RL	N 1352 to N 1800 & E 1670 to E 2200, N 600 to N 846 & E 1400 to E 1600 RL to 228RL	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No proposal		
2c	Stripping ratio or ore to OB ratio	1:0.181	1:0.074	
2d	Quantity of topsoil generation in m3	14928	2382	
2e	Quantity of overburden generation in m3	338675	44606	

2f General remarks of inspecting officers on development of pit w.r.t. type of deposit etc - -

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	2	2	
3b	Quantity of ROM mineral production proposed	4466422	1340883	
3c	Recovery of sailable/usable mineral from ROM production	95%	93.11%	
3d	Quantity of mineral reject generation	0	0	
3e	Grade of mineral rejects generation and threshold value declared.	No proposal.		
3f	Quantity of sub grade mineral generation.	223321	25739	
3g	Grade of sub grade mineral generation	SiO ₂ 16-18%	SiO ₂ 16-18%	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized	Mechanized	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No Proposal	Nil	
3j	Provision of drilling and blasting in mineral benches	YES	YES	

3k	Provision of mining machineries in mineral benches	SHOVEL (MECHANICAL) 2.300 CUM 1 Non Electrical Opencast SHOVEL (MECHANICAL) 1.100 CUM 2 Non Electrical Opencast TIPPER 18.000 CUM 7 Non Electrical Opencast TIPPER 16.000 CUM 3 Non Electrical Opencast WATER TANKER 8000.000 LITRE 1 Non Electrical Opencast WHEEL LOADER 1.480 CUM 1 Non Electrical Opencast ROCK DRILL (NON-ELEC.) 0.300 MM 1 Non Electrical Opencast EXPLOSIVE VAN 10.000 TONNE 1 Non Electrical Opencast AIR COMPRESSOR 8.000 CUM/MN 1 Electrical Opencast PUMPS (ELEC.) 5000.000 L/MN 1 Electr	SHOVEL (MECHANICAL) 2.300 CUM 1 Non Electrical Opencast SHOVEL (MECHANICAL) 1.100 CUM 2 Non Electrical Opencast TIPPER 18.000 CUM 7 Non Electrical Opencast TIPPER 16.000 CUM 3 Non Electrical Opencast WATER TANKER 8000.000 LITRE 1 Non Electrical Opencast WHEEL LOADER 1.480 CUM 1 Non Electrical Opencast ROCK DRILL (NON-ELEC.) 0.300 MM 1 Non Electrical Opencast EXPLOSIVE VAN 10.000 TONNE 1 Non Electrical Opencast AIR COMPRESSOR 8.000 CUM/MN 1 Electrical Opencast PUMPS (ELEC.) 5000.000 L/MN 1 Electr
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3l Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM Bench height : Yes suitable for method of Mining.
8 meters.

Bench
height : 8 meters.

		Bench width : more than than 8 meters.	Bench width : Morre than 8 meters.
3m	Total area covered under excavation/pits	91.50	43.82
3n	Ore to OB ratio for the pit/mine during the year.	1:0.181	1:0.074
3o	Total area put in use under different heads at the end of year		
3p	Production of ROM mineral during the last five year period as applicable	24177614	8740934

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Yes	Yes	
4b	Location of topsoil, OB and mineral reject dumps	North side of the mining area.	2 nos major waste dump on the west side of the mining area.Further two small waste dumps also lying in the west side of the lease area.Violation u/r 11(1) raised for not carrying dumping as per the approved proposal.	

4c	Number of dumps within lease area and outside of lease area	1	4
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside	outside
4e	Number of active and alive dumps.	1	4
4f	Number of dead dumps.	No proposal	0
4g	Number of dumps established.	No proposal	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal for retaining wall in the year 2016-17	Nil during 2016-17. However upto the end of 2016-17 a total of 495 m retaining wall was already developed.
4i	Length of Retaining wall or garland drain all along dumps		495 meter
4j	Number of settling ponds	No proposal	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 Proposal	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)		For plantation	
5d	Total area fully reclaimed and rehabilitated	No Proposal	Nil	

5e	General remarks of inspecting officers on backfilling and reclamation etc.	NA	NA
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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).		Submitted in time	
6b	Area available for rehabilitation (ha) .	No proposal	Nil	
6c	afforestation done (ha).		12600 nos planted in Mining area and 10520 nos saplings planted in plant area	
6d	No. of saplings planted during the year	2500 nos	12600 nos	
6e	Cumulative no .of plants		112529 Saplings in mining area	
6f	Any other method of rehabilitation		Nil	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal	Till date no area is mature for backfilling	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Quarterly monitering to be carried out in respect of Air, Water, Noise ETC.	Monitering is being done on Quarterly basis and results are within permissible limit.	

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	4243101 Tonnes	1440000 tonnes-Cement grade
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanised.	Mechanised.
7c	Different grade of mineral sorted out at mines.	Mechanised.	Mechanised.
7d	Any beneficiation process at mines .	Crushing and Screening.	Crushing and Screening.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes, top soil to be removed seperately and stocked at designated area.	Top soil is removed seperately and stacked.Top soil is small quantity and used for plantation and greenery development.	
8b	Concurrent use or storage of topsoil	Plantation	Planatation	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)		Yes	
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)	No proposal	NA
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)		Sappling survived @ around 70% and attained a height of 3 to 4m.
8g	Survival rate		75%
8h	Water sprinkling on roads to control airborne dust	Yes	Yes

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	MR Submtted AR Submitted	All returns submitted for the year 2016-17	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engneer : Shri Shrawan Kumar Shukla.	Mining Engineer and Geologist appointed as per the requirement of MCDR-2017. Mining Engineer : Shri Shrawan Kumar Shukla.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Geologist : Shri Ritesh Chattaraj.	Geologist : Shri Ritesh Chattaraj.	

9d	Scrutiny of Annual return on afforestation	12600 nos	12600 nos planted in Mining area and 10520 nos saplings planted in plant area which is falling within the lease.
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	Production : 1340883 Tonnes	Production : 1340883 Tonnes
			Despatch : 1440000 Tonnes
		Despatch : 1440000 Tonnes	Stack : 675543 Tonnes
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Production cost-Rs 181.91	
9h	Scrutiny of Annual return on fixed assets	Nil	

9k	Scrutiny of Annual return on mining machineries	SHOVEL (MECHANICAL) 2.300 CUM 1 Non Electrical Opencast SHOVEL (MECHANICAL) 1.100 CUM 2 Non Electrical Opencast TIPPER 18.000 CUM 7 Non Electrical Opencast TIPPER 16.000 CUM 3 Non Electrical Opencast WATER TANKER 8000.000 LITRE 1 Non Electrical Opencast WHEEL LOADER 1.480 CUM 1 Non Electrical Opencast ROCK DRILL (NON-ELEC.) 0.300 MM 1 Non Electrical Opencast EXPLOSIVE VAN 10.000 TONNE 1 Non Electrical Opencast AIR COMPRESSOR 8.000 CUM/MN 1 Electrical Opencast PUMPS (ELEC.) 5000.000 L/MN 1 Electr	SHOVEL (MECHANICAL) 2.300 CUM 1 Non Electrical Opencast SHOVEL (MECHANICAL) 1.100 CUM 2 Non Electrical Opencast TIPPER 18.000 CUM 7 Non Electrical Opencast TIPPER 16.000 CUM 3 Non Electrical Opencast WATER TANKER 8000.000 LITRE 1 Non Electrical Opencast WHEEL LOADER 1.480 CUM 1 Non Electrical Opencast ROCK DRILL (NON-ELEC.) 0.300 MM 1 Non Electrical Opencast EXPLOSIVE VAN 10.000 TONNE 1 Non Electrical Opencast AIR COMPRESSOR 8.000 CUM/MN 1 Electrical Opencast PUMPS (ELEC.) 5000.000 L/MN 1 Electr
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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)	30/10/2017			

Date :
(S K MUDULI)

Indian Bureau of Mines