

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

Mining Plan Modification REPORT

Hyderabad regional office

Mine file No : AP/CDP/LST-25/HYD

Mine code : 38APR04017

- (i) Name of the Inspecting : **25**) **SHRI IBRAHIM SARIF**
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine :
Official with
Designation
- (iv) Date of Inspection : 19/09/2019
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **NAWABPETA(407.05 HA)**
- (b) **Registration NO.** : **IBM/929/2011**
- (c) **Category** : **A Mechanised**
- (d) **Type of Working** : **Opencast**
- (e) **Postal address**
- State : **ANDHRA PRADESH**
- District : **CUDDAPAH**
- Village : **TALAMANCHIPATNAM**
- Taluka : **JAMMALAMADUGU**
- Post office : **CHINNAKOMERLA**
- Pin Code : **516434**
- FAX No. :
- E-mail : **K.KARUNAKARARAO@DALMIACEMEI**
- Phone : **04329235111**
- (f) **Police Station** : **TALAMANCHIPATNAM**
- (g) **First opening date** : **24/07/2008**
- (h) **Weekly day of rest** : **SUN**
2. **Address for correspondance** : **GENERAL MANAGER(MINES),M/S DALMIA CEMENTS(BHARAT
CHINNAKOMERLA POST, MYLAVARAM MANDAL
KADAPA DISTRICT-516434.**
3. (a) **Lease Number** : **APR2331**
- (b) **Lease area** : **407.05**
- (c) **Period of lease** : **20**
- (d) **Date of Expiry** : **23/06/2028**
4. **Mineral worked** : **LIMESTONE** **Main**

5. Name and Address of the

Lessee : M/S ESWAR CEMENTS PVT.LTD
 CHINNAKOMERALA(V) MYLAVARAM
 (M) KADAPA DT. CUDDAPAH
 ANDHRA PRADESH
 Phone:
 FAX :

Owner : T.VENKATESAN
 DALMIA CEMENT FAGUN MANSION
 FOURTH FLOOR EGMORE CHENNAI
 CITY TAMIL NADU
 Phone: 044-28276508
 FAX : 044-28276508

Agent : K.KARUNAKARRAO
 Dalmia(B)limited,chinnakomm
 erla(v) Mylavaram(M)kadapa
 dist ANDHRAPRADESH CUDDAPAH
 ANDHRA PRADESH
 Phone: (8560)272431,272434,
 FAX : (8560)272420,27

Mining Engineer

Name : A.SRIKANTH,Full Time
 Qualification : B.Tech,(MINING)
 Appointment/ : 16/06/2011
 Termination date

Mining Engineer

Name : k.karunakara Rao,Full Time
 Qualification : AMIE(MINING)
 Appointment/ : 01/05/2007 16/06/2011
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	27/11/2007
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	12/09/2013
		MP review under 17(1) MCR 2016	23/01/2018

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No backlog	None	
1b	Exploration over lease area for geological axis 1 or 2	08- DTH Bore Holes & 4 Core Bore Holes during 2018-19	08- DTH Bore Holes & 4 Core Bore Holes carried out during 2018-19.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Nil	M/s Natural Resources Development Co-operative Society Ltd, Hyderabad. COst incurred during the year is : Rs. 2.57 Lakhs. Total cost incurred so far is Rs. : 37.48 Lakh Rs.	
1d	Balance area to be explored to bring Geological axis in 1 or 2	61.79 Ha to be explored in G1 scale	61.79 Ha to be explored in G1 scale	Entire mineralised area in explored under G1 scale
1e	Balance reserve as on 01/04/20	90.81 Million Tonnes	90.81 Million Tonnes	As on 01.04.2019.
1f	General remarks of inspecting officers on geology, exploration etc		345.26 Ha mineralised area had been explored in G1 scale, , 27.15 in G2 scale, 28.47 in G3 scale & 6.17 ha in G4 scale by drilling 108 core bore holes and 18 DTH bore holes with 2645.19 meterage. Lease area is flat terrain, gentle slope exist from N- NE to S-SW The general strike NNW-SSE dip 0-5degrees towards NE. The depoposit is of concave shape in general, the depth of limestone occurrence increases towards eastern side of the lease in the middle. Thickness 1.8 to 3.7 mts min.	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	It was proposed to work in North West and South West part of lease duiirng 2018-19 Easting: 211600 to 212200, Northing: 1654900 to 1655800	Duirng the inspection it was observed that working is being done as per proposed area. Easting: 211600 to 212200, Northing: 1654900 to 1655800	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	It is proposed to have seperate benches for topsoil and OB.	Seperate benches for topsoil and OB were made in the mine.	
2c	Stripping ratio or ore to OB ratio	1:0.167	1:0.132	
2d	Quantity of topsoil generation in m3	1,71,889	58,378	In cum
2e	Quantity of overburden generation in m3	3,68,932	3,34,866	In cum
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		This is shallow deposit and mining operations are being carried out by developing two benches of 4 meters & 9 meters.	

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One pit	One pit	
3b	Quantity of ROM mineral production proposed	3.222330	2.974500	In Million Tonnes
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	No proposal	Nil	

3e	Grade of mineral rejects generation and threshold value declared.	Not Applicable	Does not arise	
3f	Quantity of sub grade mineral generation.	No proposal of Generation of Sub grade	Nil	No sub-grade mineral rejected from the mines is generated The low grade limestone from the 1st bench is being blended with high grade Limestone from bottom benches.
3g	Grade of sub grade mineral generation	Not applicable	Does not arise	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised method adopted by a screening plant for segregation of clay and morrum from 1st Bench.	Mechanised method adopted by a screening plant established in the lease for segregation of clay and morrum from 1st Bench.	
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	Provision has been made for carrying out drilling and blasting in minerals benches	Yes, Deep Hole drilling is being carried out by using 115 MM dia Drilling and Blasting is being conducted by maintaining Burden of 4 meters and Spacing of 5 Meters and depth of drill hole is 9.9 meters including Sub-grade drilling.	150mm - 2 no.
3k	Provision of mining machineries in mineral benches	Provision is made for operating mining machinery in the mineral benches	HEMM being utilised are Excavator of 6.5 m3 capacity -3 Nos, 3.0 m3 -1 no., Dumper of 55T capacity -07 Nos., Drilling Machine -152 mm dia - 2nos, Dozer- (155 HP) - 1 No, Pump- 100 cum/h-1 No.	

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	proposals are made maintaining bench height of 4 meters in OB and 9 meters for mineral	A bench height of 4 meters for OB and 9 meters for mineral are being maintained.	
3m	Total area covered under excavation/pits	116.34 Ha.	As on 31.03.19, 62.230 ha	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.167	1:0.132	
3o	Total area put in use under different heads at the end of year	183.84Ha	130.11 ha	
3p	Production of ROM mineral during the last five year period as applicable	2014-15 = 23,60,740 2015-16 = 23,63,936 2016-17 = 23,62,253 2017-18= 23,64,772 2018-19= 32,22,330	2014-15 = 18,81,500 2015-16 = 14,25,000 2016-17= 21,90,000 2017-18= 24,52,500 2018-19= 29,74,500	In MT
3q	General remarks of inspecting officers on method of mining etc.	Nil	Mining operations are being carried out by Fully mechanised Opencast Mining method with Deep hole drilling and Blasting by deploying HEMM like 2.5 cum excavator, 20 T dumpers with 115 mm dia drilling machines, Dozer etc maintaining maximum bench height of 9 meters and width more than height.	

Solid Waste Management - Dumping:

Sl.No.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Proposals have been made for dumping separately for topsoil and overburden	Separate Topsoil and OB dump were noticed during the inspection.	

4b	Location of topsoil, OB and mineral reject dumps	South Western part of the lease. Top soil Easting: 212100 to 212400 Northing: 1655300 to 1655500 Overburden Easting: 211600 to 211900 Northing: 1655100 to 1655300	South Western part of lease. Top soil Easting: 212100 to 212400 Northing: 1655300 to 1655500 Overburden Easting: 211600 to 211900 Northing: 1655100 to 1655300
4c	Number of dumps within lease area and outside of lease area	6 With in lease area	6 With in lease area
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	South Western part of lease.	South Western part of lease.
4e	Number of active and alive dumps.	2	2
4f	Number of dead dumps.	04 dead dumps.	04 dead dumps.
4g	Number of dumps established.	Nil	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	One garland drain to be constructed	One garland drain constructed
4i	Length of Retaining wall or garland drain all along dumps	Garland drain : 300 meters	Garland drain : 452 meters
4j	Number of settling ponds	None	None

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.	Full excavation of mineral is to be carried out.	Full excavation of mineral up to Quartzite is observed .
5b	Area under backfilling of mined out area	Nil	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	For plantation	Used for plantation and Storage
5d	Total area fully reclaimed and rehabilitated	Nil	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Nil	Full excavation of Mineral is being carried out up to contact zone of Quartzite

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).	It is proposed to submit annual report under rule 26(2) of MCDR,2017	The annual report submitted under rule 26(2) of MCDR,2017	
6b	Area available for rehabilitation (ha) .	Nil	Nil	
6c	afforestation done (ha).	1.0 Ha	1.0 Ha	
6d	No. of saplings planted during the year	It is proposed plant 2000 saplings duirng 2018-19	During the year 2018-19, 2026 saplings were planted.	
6e	Cumulative no .of plants		24,677 Sapplings planted so far	
6f	Any other method of rehabilitation	No proposal	Nil	
6g	Cost incurred on watch and care during the year	Rs. 1,50,000	Rs. 3,33,432	

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx 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
6p	Compliance of environmental monitoring (core zone and buffer zone)	It is proposed to carry out quarterly monitoring of environment parameters in both core and buffer.	It was noticed that quarterly monitoring of environmental parameters are being carried out regularly in both core and buffer zones.The parameters are within the permissible limits.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		Lessee submitted yearly report and carried out environmental monitoring in core and buffer zone.

Mineral Conservation:

Sl.No.	Item	Proposals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	3.32 million Tonnes, Entire ROM will be blended and used in the process of cement manufacturing.	2.97 million Tonnes, Entire ROM are blended and used in the process of cement manufacturing.	In
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	None	None	
7c	Different grade of mineral sorted out at mines.	No proposal	Nil	
7d	Any beneficiation process at mines .	Screening and Crushing plant is established to use Limestone in Cement plant	Screening and Crushing plant is established to use Limestone in Cement plant	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		Entire material will be blended and used in the process of cement manufacturing.	

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	2018-19 : 171889 m3 of Top soil was proposed to be generated.	2018-19: 58378 m3 of Top Soil generated, the same is being utilised for Plantation and stored in mined out area	
8b	Concurrent use or storage of topsoil	It is proposed to utilise the topsoil generated for stacking and for plantation.	It was noticed that topsoil generated is being utilised for plantation and rest being stacked.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes, separate dump of OB and Top Saoil stack is proposed to be dumped.	yes OB and Top soil is being dumped separately	

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)	It is proposed to plant 2000 saplings during 2018-19	Planted 2026 saplings during 2018-19
8g	Survival rate	80%	75%
8h	Water sprinkling on roads to control airborne dust	It is proposed to control dust emission by using water sprinklers	Permanent sprinklers have been fixed for 300 meters and the remaining haul road are wetted by water tanker.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Nil	About 18000 sapplings were planted so far, to improve the aesthetic beauty

Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	It is proposed to submit all the Statutory returns in times	The Monthly and Annual returns are being submitted by lessee in time.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer in charge :Mr.K V Suresh Reddy Geologist in charge : Mr. N.Guru Pratap Reddy	Mining Engineer in charge :Mr.K V Suresh Reddy Geologist in charge : Mr. N.Guru Pratap Reddy	

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	The Mine workings cover 62.23 ha Waste dump 30.0 ha Roads/Plants/Buildings 10 ha	The Mine workings cover 62.23 ha Waste dump 30.0 ha Roads/Plants/Buildings 10 ha
9d	Scrutiny of Annual return on afforestation	Planted 2026 saplings.	Planted 2026 saplings.
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	ROM : NIL GRADED ORE : 124 mt	ROM : NIL GRADED ORE : 124 mt
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	--	The ex-mine price and Cost of Production as per annual return 2018-19 is Rs. 215.14 per tonne
9h	Scrutiny of Annual return on fixed assets	(in Rs.) 715845856	(in Rs.) 715845856, as reported by lessee
9k	Scrutiny of Annual return on mining machineries	ROCK DRILL (NONELEC.)150.000 MM -1 No. SHOVEL (HYDRAULIC) 6.500 CUM- 1 No. BACK HOE 6.500 CUM -1 BACK HOE 3.000 CUM -1 DUMPER 55.000 TONNE - 4 Nos. DOZER 302.000 HP - 1 No. MOTOR GRADER 140.000 HP -1 No. WATER TANKER 15000.000 LITRE -1 No. PUMPS (ELEC.) 1650.000 L/MN -1 No. CRUSHER 1000.000 T/H - 1 No.	ROCK DRILL (NONELEC.)150.000 MM -1 No. SHOVEL (HYDRAULIC) 6.500 CUM- 1 No. BACK HOE 6.500 CUM -1 BACK HOE 3.000 CUM -1 DUMPER 55.000 TONNE - 4 Nos. DOZER 302.000 HP - 1 No. MOTOR GRADER 140.000 HP -1 No. WATER TANKER 15000.000 LITRE -1 No. PUMPS (ELEC.) 1650.000 L/MN -1 No. CRUSHER 1000.000 T/H - 1 No.

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

Date :

(SHRI IBRAHIM SARIF)

Indian Bureau of Mines