

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

MCDR inspection REPORT

Hyderabad regional office

Mine file No : AP/NLG/LST-5/HYD

Mine code : 38APR14007

- (i) Name of the Inspecting : **RK13**) **A.V.Ramesh Kumar**
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompanying mine : V SUBRAMANYAM CHIEF GENERAL MANAGER(MINES)
Official with
Designation
- (iv) Date of Inspection : 28/10/2017
- (v) Prev.inspection date : 12/03/2017

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **SAGAR - I**
- (b) **Registration NO.** : **IBM/825/2011**
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
- State : **TELANGANA**
- District : **NALGONDA**
- Village : **PEDAVEEDU**
- Taluka : **HUZURNAGAR**
- Post office : **METTAMPALLY**
- Pin Code : **508225**
- FAX No. : **08683-247029**
- E-mail : **SUBRAMANYAMV@SAGARCEMENTS..**
- Phone : **040316571/316572,08683-670**
- (f) Police Station : **MATTAMPALLY**
- (g) First opening date : **18/08/1984**
- (h) Weekly day of rest : **SUN**
2. Address for : **PEDDAVEEDU VILLAGE, MATTAMPALLY MANDAL,**
correspondance : **SURYAPET DISTRICT**
: **TELANGANA STATE**
3. (a) Lease Number : **APR0067**
- (b) Lease area : **143.67**
- (c) Period of lease : **20**
- (d) Date of Expiry :
4. Mineral worked : **LIMESTONE** Main

5. Name and Address of the

Lessee : M/S SAGAR CEMENTS LTD
 H.NO.8-2-472/B/2 ROAD NO.1
 BANJARA HILLS HYDERABAD
 TELANGANA
 Phone:040-3351571,0403356572
 FAX :

Owner : SAMMETA VEERA REDDY
 H.NO.8-2-472/B/2 ROAD NO 1
 BANJARAHILLS HYDERABAD
 TELANGANA
 Phone: 04023351571
 FAX : 04023356573

Agent : N.KRISHNA REDDY
 M/S SAGAR CEMENTS LTD
 MATTAMPALLY VILLAGE &
 MANDAL NALGONDA TELANGANA
 Phone: 08683247029
 FAX : 08683247041

Mining Engineer

Name : P MANOJ KUMAR REDDY,Full Time
 Qualification :
 Appointment/ : 27/01/2011
 Termination date

Geologist

Name : MD.NAYEEM,Full Time
 Qualification : M.SC(GEO)
 Appointment/ : 24/12/2007
 Termination date

Manager

Name : V.SUBRAHMANYAM
 Qualification : DIPLOMA IN MINING & FIRSTCLASS MINES MAN
 Appointment/ : 02/03/2005
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	17/01/2001
		Modif.of approved Mining Plan	07/12/2003
		Renewal under rule 22 MCR1960	26/03/2004
		Modif.of approved Mining Plan	12/09/2008
		Modif.of approved Mining Plan	03/08/2010
		Mining Scheme rule 12 MCDR1988	23/05/2014

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No exploration was proposed during the year 2016-17.	Though there was no proposal for exploration, the lessee has carried out 06 Core Bore Holes during the year 2016-17.	The lessee has carried out a cumulative of 67 CBH and 44 DTH at 150x150m grid interval.
1b	Exploration over lease area for geological axis 1 or 2	---	The entire lease area is covered under G1 & G2 scale of exploration.	None
1c	Exploration Agencies and Expenditure in lakh rupees during the year	--	An expenditure of Rs.50000/- was incurred towards the exploration carried out during 2016-17	None
1d	Balance area to be explored to bring Geological axis in 1 or 2	--	--	Entire lease area is covered under G1 & G2 scale of exploration.
1e	Balance reserve as on 01/04/20	---	40.571 Million tonnes	None
1f	General remarks of inspecting officers on geology, exploration etc	---	The entire lease area is covered under G1 & G2 scale of exploration.	None

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	It is proposed to develop the mine with two pits which are presently existing. Eastern side: N9905-10750 & E 10975-11600 Western side: N 10030-10255 & E 10450-10695.	The actual workings were observed to be as per the approved document.	None

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	There are no proposals for making benches in topsoil. Further no OB was handled during 2016-17.	It was observed that during 2016-17 no OB was handled. However, the topsoil generated is being used for plantation in the lease.	None
2c	Stripping ratio or ore to OB ratio	1:4.265	No OB was handled during 2016-17.	None
2d	Quantity of topsoil generation in m3	16560 Cu.m	21230 Cu.m	None
2e	Quantity of overburden generation in m3	161500 tonnes	Nil	None
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	--	The overall development of the mine is as per the proposal made in the approved document.	None

Exploitation:

Sl.No.	Item	Proposals	Actual work	Remarks
3a	Number of pit proposed for production	Two pits	It was observed that the mining is being carried out in two pits as proposed.	None
3b	Quantity of ROM mineral production proposed	2.25 Million tonnes	1.56 Million tonnes	None
3c	Recovery of sailable/usable mineral from ROM production	Nil	Nil	Nil
3d	Quantity of mineral reject generation	Nil	Nil	Nil
3e	Grade of mineral rejects generation and threshold value declared.	Nil	Nil	Nil
3f	Quantity of sub grade mineral generation.	Nil	3684 tonnes	Nil

3g	Grade of sub grade mineral generation	Nil	Sio2 -16-18%	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	No proposals made for seggregating from ROM	Entire ROM is consumed in captive cement plant of lessee.	None
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Nil	Nil	Nil
3j	Provision of drilling and blasting in mineral benches	Yeas, provision has been made for drilling and blasting in mineral benches.	It was observed that blasting and drilling is being carried out by way of wagon drill of 115 mm dia and blasting as proposed in the approved document.	None
3k	Provision of mining machineries in mineral benches	Yes a provision has been made in the approved document for utilising the HEMM in the mineral benches.	It was observed that HEMM like dumper, Back Hoe are being used for carrying out mining operations in the mineral benches.	None
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	It was proposed to maintain width and height in the mineral benches at 7-8 meters height and 10-15 meters width suitable for Mechanised method of mining.	The same was observed duirng the inspection.	None
3m	Total area covered under excavation/pits	--	84.605 ha as on 1.4.2017	None
3n	Ore to OB ratio for the pit/mine during the year.	1:4.265	Nil	No OB was handled duirng 2016-17.
3o	Total area put in use under different heads at the end of year	--	84.605 ha	None

3p	Production of ROM mineral during the last five year period as applicable	2012-13-2.70 million tonnes 2013-14-2.28 million tonnes 2014-15-2.25 million tonnes 2015-16-2.25 million tonnes 2016-17-2.25 million tonnes	2012-13-1.54 million tonnes 2013-14-1.38 million tonnes 2014-15-1.53 million tonnes 2015-16-1.64 million tonnes 2016-17-1.56 million tonnes	None
3q	General remarks of inspecting officers on method of mining etc.	--	There is no production of mineral over and above the proposed quantity.	None

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Proposal was made for stacking of topsoil and dumping of OB during the year 2016-17.	The topsoil generated during the year 2016-17 was stacked along the lease boundary within lease towards Western side during 2016-17. Further area has been earmarked for dumping the OB during the year 2016-17, However no OB was handled during 2016-17.	None
4b	Location of topsoil, OB and mineral reject dumps	For topsoil along the western lease boundary and for OB on the Southern side of the lease.	It was observed during the inspection that the topsoil generated was stacked along the proposed lease boundary on western side. No OB was handled during 2016-17.	None
4c	Number of dumps within lease area and outside of lease area	--	One Dump Within Mining lease and no dumps outside lease area.	None
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	It was proposed to dump within N 10635-N11200 during 2016-17.	However it was observed that no OB was handled during 2016-17.	None
4e	Number of active and alive dumps.	One active dump	One active dump	None
4f	Number of dead dumps.	None	None	None

4g	Number of dumps established.	One old dump being stabilised.	It was observed that one old dump is being stabilised.	None
4h	Whether Retaining wall or garland drain all along dumps are there.	--	Yes retaining walls and garland drain was constructed around the dump.	None.
4i	Length of Retaining wall or garland drain all along dumps	--	100Meters of retaining wall and 1.8 KM of garland drain.	None
4j	Number of settling ponds	One	One	None
4k	Specific comments of inspecting officer on waste dump management	--	The overall solid waste management dumping as proposed is being carried out.	None

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.	There is no proposal for backfilling during the year 2016-17.	No area was backfilled during year 2016-17.	None
5b	Area under backfilling of mined out area	--	--	None
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	There was no proposal for use of topsoil generated for restoration of mined out area.	Topsoil generated was not used for restoration of mined out area during 2016-17.	None
5d	Total area fully reclaimed and rehabilitated	--	--	--
5e	General remarks of inspecting officers on backfilling and reclamation etc.	None	None	None

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 the statutory return regularlry to IBM,	Yes the Annual report on protection measures for environment submitted under rule 26(2) of MCDR,2017.	None
6b	Area available for rehabilitation (ha) .	--	---	--
6c	afforestation done (ha).	--	204260 no.s	None
6d	No. of saplings planted during the year	800	1100	None
6e	Cumulative no .of plants	--	204620	None
6f	Any other method of rehabilitation	--	--	--
6g	Cost incurred on watch and care during the year	None	Rs.2510270/-	None
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	--	--	--
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	--	--	--
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	--	--	--
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	--	--	--

6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	--	--	--
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	None	None	None
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	None	None	None
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	None	None	None
6p	Compliance of environmental monitoring (core zone and buffer zone)	It is proposed to carry out quarterly environmental monitoring of the all parameters both in the core and buffer zones.	It was observed during the inspection that quarterly monitoring of the environmental parameters has been carried for 2016-17.It was also observed that all environmental parameters are within permissible limits.	None
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	--	More or less all the proposals made in the approved document have been implemented for the year 2016-17.	None

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	It was proposed to produces 2.25 million tonnes duirng 2016-17	The actual production was 1.56 million tonnes	None

7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No proposal for gradwise sorting during 2016-17	The entire ROM is utilised for captive cement plant of the lessee	
7c	Different grade of mineral sorted out at mines.	None	None	None
7d	Any beneficiation process at mines .	None	None	None
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	None	None	None

Environment :

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Proposals have been made for generation of topsoil and its utilisation.	It was observed during the inspection that 21230 Cu.M of topsoil was generated and the same was stacked along the western boundar of the mining lease.	None
8b	Concurrent use or storage of topsoil	Yes	Yes	None
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposal made for dumping the OB during 2016-17	No OB was handled during 2016-17.	None
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	It was proposed to restore the mined out area with the OB handled during the year 2016-17	As no OB was handled during 2016-17, mined out area could not be restored.	None

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	--	--	--
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	A total plantation of about 204620 no.s over an extent of 87.104 ha is covered.	The same was noticed during the inspection.	None
8g	Survival rate	88%	86%	--
8h	Water sprinkling on roads to control airborne dust	It was proposed to use water sprinkling for dust suppression.	During the inspection it was noticed that water sprinkling was used for dust suppression in the mines.	None
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	None	None	None

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Annual and Monthly return are being submitted online regularly to this office.	The same was noticed after checking the records.	None
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	In the Annual return 2016-17 it was mentioned that Sri P Manoj Kumar Reddy as Mining Engineer and Sri Md Nayeem as the geologist.	The same was noticed after scrutiny of the records.	None

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	It was mentioned in the annual report 2016-17 that 84.605 ha is under mine workings, 1.5 ha under dump,	The same was observed during the inspection.	None
9d	Scrutiny of Annual return on afforestation	In the Annual report it was mentioned that 2129 saplings were planted during 2016-17.	The same were noticed during the inspection.	None
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	It was mentioned in the Annual return that 1.56 million tonnes was produced during 2016-17.	The same was verified.	None
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	In the Annual return 2016-17 it was mentioned that Rs.185.69/- is the Ex-mine price and cost of production.	The same was verified and it was observed Rs.185.69/- was ex-mine price and cost of production as it is for captive consumption and also there is no major deviation from the price mentioned for the surrounding mines.	None
9h	Scrutiny of Annual return on fixed assets	In the Annual return it was mentioned that Rs.865038524/-	The same was not verified.	None

9k	Scrutiny of Annual return on mining machineries	It was mentioned that 04 hydraulic shovels of various capacities,01 backhoe,01 wheel loader,02 air compressors, 01 wagon drill,01 explosive van,01 water tanker,05 dumpers of 55 tonnes capacity,01 dozer and 01 electrical pump.	The same were noticed duirng the inspection.	None
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Details of violations observed during current inspection and compliance position of violation pointed out

Violation observed			Show couse position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on
MCDR17	Rule 11(4)	06/11/2017			

Date :

(A.V.Ramesh Kumar)

Indian Bureau of Mines