

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

MCDR INSPECTION REPORT

Hyderabad regional office

Mine file No : AP/ANP/L.ST-27/ HYD

Mine code : 38APR02032

- (i) Name of the Inspecting : **25**) **SHRI IBRAHIM SARIF**
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Shri K Ramasubbaiah, Mines Manager, Shri K Ram Babu, G
Official with
Designation
- (iv) Date of Inspection : 16/05/2016
- (v) Prev.inspection date : 25/07/2014

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **GUDIPADU(392.62 HA)**
- (b) **Registration NO.** :
- (c) **Category** : A Mechanised
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : ANDHRA PRADESH
- District : ANANTAPUR
- Village : GUDIPADU
- Taluka : YADIKI
- Post office : YADIKI
- Pin Code : 515408
- FAX No. : 98481-72059(works)040--233!
- E-mail : Projects@pennacements.com, |
- Phone : (08558)279833(w)040-233539!
- (f) **Police Station** :
- (g) **First opening date** : 21/07/2007
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** : BOYIREDDYPALLI(V)CHINTALAYAPALL(PO)KAMALAPADU
YADIKI(M) ANANTAPUR, DIST.A.P.REGD.OFF: PLOTN070
ROADENO:3, BANJARA HILLS. HYDERABAD-500034 A.P,
3. (a) **Lease Number** : APR2353
- (b) **Lease area** : 392.78
- (c) **Period of lease** : 20
- (d) **Date of Expiry** : 15/07/2027
4. **Mineral worked** : LIMESTONE Main

5. Name and Address of the

Lessee : PENNA CEMENT INDUSTRIES LTD
 PLOTNO.703,
 SRINIKETANCOLONYROADNO.3
 BANJARAHILLS.HYDERABAD
 HYDERABAD TELANGANA
 Phone:08558, 86055,86066
 FAX :08558-86044

Owner : K.NAGARAJU
 M/S PENNA CEMENT INDUSTRIES
 LIMITED BOYAREDDIPALLI
 VILLAGE, YADIKI MAND
 ANANTPUR DISTRICT ANANTAPUR
 ANDHRA PRADESH
 Phone: 08558-285158
 FAX :

Agent : P.VENUGOPAL REDDY
 M/S PENNA CEMENTT
 INDUSTRIES LTD. PLOT
 NO.705, ROAD NO.3 HYDERABAD
 HYDERABAD TELANGANA
 Phone: 040-44565100
 FAX : 040-23355941

Mining Engineer

Name : K.NAGARAJU,Full Time
 Qualification : L.M.E.
 Appointment/ : 23/06/2011
 Termination date

Geologist

Name : K RAMBABU,Full Time
 Qualification : M.Sc.,
 Appointment/ : 25/07/2008
 Termination date

Manager

Name : P.V.K.YADAV
 Qualification : AMIE
 Appointment/ : 09/04/2009
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining	:	Modif.of approved Mining Plan Mining Scheme rule 12 MCDR1988	25/06/2009 01/02/2013
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PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	20 NO. OF BORE HOLES	87 No. of bore holes drilled with 1028.75 meterage	
1b	Exploration over lease area for geological axis 1 or 2	20 no. of boreholes with 520 meterage	87 no. of bore holes with 1028.75 meterage	392.62 Ha of the lease area; 28.24 ha is Non mineralised covered under G3 category, remaining 364.38 Ha has been reported to have been explored under G1 category.
1d	Balance area to be explored to bring Geological axis in 1 or 2	210 ha	364.38 Ha of mineralised area of the lease had been explored under G1 level	
1e	Balance reserve as on 01/04/20	Approved to explore entire lease area within the scheme period	Yes, 364.38 Ha of mineralised area of the lease had been explored in G1 level.	

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Western side of lease area	Same aws proposed	
2c	Stripping ratio or ore to OB ratio	Nil	Nil	
2d	Quantity of topsoil generation in m3	59825 m3	2350 m3	

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	1, West pit	2, Both East and West pit	
3b	Quantity of ROM mineral production proposed	21,50,570 MT	13,20,600 MT	

3c	Recovery of sailable/usable mineral from ROM production	100%	100%
3d	Quantity of mineral reject generation	NIL	NIL
3e	Grade of mineral rejects generation and threshold value declared.	NIL	NIL
3f	Quantity of sub grade mineral generation.	NIL	NIL
3g	Grade of sub grade mineral generation	NIL	NIL
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised method	Mechanised method
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No	No
3j	Provision of drilling and blasting in mineral benches	Deep hole drilling and Blasting: Hole dia :150mm, Burden: 5m and Spacing: 7 m, depth: 10m	Deep hole drilling and blasting is being carried out as proposed.
3k	Provision of mining machineries in mineral benches	Wagon Drill machine: 150mm dia Hydraulic Excavator : 3.3 cum Dumper: 30T and 35 T	Machineries as proposed in SOM are deployed in the mineral benches
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Overburden : Nil Mineral : 09 Meters	Bench height is found to be more than 9 meters in East side pit and New pit

3m	Total area covered under excavation/pits	63.982 Ha	32.58 Ha
3n	Ore to OB ratio for the pit/mine during the year.	NIL	NIL
3o	Total area put in use under different heads at the end of year	(i) Degraded by pit : 63.982 Ha ii) Occupied by plant, buildings, residential, welfare buildings & roads : 3.337 Ha (iii) Other Purpose (Plantation) : 11.662 Ha	(i) Degraded by pit : 32.58 Ha ii) Occupied by plant, buildings, residential, welfare buildings & roads : 3.30 Ha (iii) Other Purpose (Plantation) : 4.15 Ha
3p	Production of ROM mineral during the last five year period as applicable	2010-11 - 2480808 MT 2011-12 - 2374235 MT 2012-13 - 2150660 MT 2013-14 - 2150725 MT 2014-15 - 2150570 MT 2015-16 - 2150478 MT	2011-12 - 14 26 000 MT 2012-13 - 16 80 000 MT 2013-14 - 13 57 000 MT 2014-15 - 13 20 600 MT 2015-16 - 12 70 000 MT
3q	General remarks of inspecting officers on method of mining etc.	Mining operations were approved to carryout by Fully mechanised with deep hole drilling and blasting	Mining is being carried as per approved proposals.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Nil	NIL	

4b	Location of topsoil, OB and mineral reject dumps	NIL	NIL
4c	Number of dumps within lease area and outside of lease area	NIL	NIL
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	NIL	NIL
4e	Number of active and alive dumps.	NIL	NIL
4f	Number of dead dumps.	NIL	NIL
4g	Number of dumps established.	NIL	NIL
4h	Whether Retaining wall or garland drain all along dumps are there.	NIL	NIL
4i	Length of Retaining wall or garland drain all along dumps	NIL	NIL
4j	Number of settling ponds	NIL	NIL
4k	Specific comments of inspecting officer on waste dump management	It was approved to separte stacking of top soil in the western part of the lease area. No OB generation, no waste dump.	The top soil generated is being utilised for plantation purpose within as well as out side lease area along haul road, colony area etc.. There exist old sub grade dump on southern side of lease area, which was secured by retaining wall and garland drain.

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.	NIL	A present, two no. of pits are opened for quality purpose and have not been reached their ultimate depth. Hence there is no possibility of backfilling/ Reclamation.	

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)	NIL	Top soil generated is being utilised for plantation in Safety zone area, along haul road, colony area etc.
5d	Total area fully reclaimed and rehabilitated	NIL	1.15 Ha
5e	General remarks of inspecting officers on backfilling and reclamation etc.	NIL	Initially during the first opening of mine, a pit over an area of 1.15 Ha was opened and later on abandoned due to quality constraints of feed material to cement plant and the same was reported to be backfilled and restored to its natural condition.

Progressive Mine Closure Plan:

Sl.No.	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Should be submitted to RCOM before 1st July.	Not submitted for the year 2014-15 so far.	
6b	Area available for rehabilitation (ha) .	NIL	NIL	
6c	afforestation done (ha).	1.53 Ha	2.07 Ha	
6d	No. of saplings planted during the year	11275 at the end of scheme period	2014-15 : 4575 2015-16 : 4590	Total area covered under plantation so far is 7.93 ha within as well as out side lease area
6e	Cumulative no .of plants	15440	9165	
6f	Any other method of rehabilitation	No	No	

6p	Compliance of environmental monitoring (core zone and buffer zone)	Quarterly monitoring in respect of Ambient air quality, Noise, water quality etc. needs to be carried out.	Regular monitoring is being carried out and reports are maintained in the mine.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Proposals approved as per PMCP should be adhered and complied.	Yearly report in respect of PMCP has not submitted by the party so far to RCOM, Hyderabad. Regular monitoring in respect of AAQ, Noise, Water etc Top soil generated is not being stacked separately and is being used for plantation within and outside lease area. Data pertaining to plantation, in respect of survival, post plantation care, replantation up to the stage of rehabilitation and cost incurred for the same has not been found maintained in register for the purpose with supporting document.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	21,50,570 MT	12,70,000 MT of limestone was dispatched to cement plant during the year 2015-16.	-
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanised method	Mechanised method	

7c	Different grade of mineral sorted out at mines.	Nil	Grade/ quality of ore decreases with the depth. High grade and low grade benches are being maintained seperately. The Light gray Limestone bench, i.e. low grade ore is maintained and excavated fully by machineries for blending purpose.
7d	Any beneficiation process at mines .	No	No
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	One additional new quarry only was approved for exploitation of Limestone during 2015-16	Quality of ore decreases with depth in the lease area. High grade and low grade ore benches are being maintained seperately so as to blend as per the plant requirement. In addition East side pit as well as new pit is also being operated for blending of ore to maintaining quality of limestone to feed Cement plant.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Top soil occurance is range from 0.3m to 1.0m, which needs to be scrap and stack it seperately for future use on Southern side of the lease area.	Top soil generated is being utilised for plantation all along haul road and some portion of safety zone area within lease area as well as outside lease area in colony.	
8b	Concurrent use or storage of topsoil	Stack it seperately for future use.	Top soil is being used for plantation purpose within and outside lease area.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	NIL	There exist old sub grade dump.	

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NIL	NIL	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NIL	NIL	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	The lease area is of rocky in nature and plantation was scanty. Additional plantation proposed during the year 2015-16 was 2300	3455 no. of sapplings were planted during 2015-16	Total plantation as on 31,03,2015 is 8520
8g	Survival rate	-	97%	
8h	Water sprinkling on roads to control airborne dust	-	Water sprinkling is being carried out by one water tanker for suppression of dust on haul road and working area to control the airborne dust.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		Topsoil generated is being utilised for plantation purpose, this has to be judiciously used for plantation and rest needs to be stacked for future use. Regular monitoring of AAQ, Noise, Water etc. is being carried out by third party and reports of the same are found maintained in the mines. Plantation is being carried out within and out side lease area to improve aesthetic beauty.	

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	MR of preceding month before 10th of successive month and AR of preceeding year before 1st July of successive year needs to be submitted to RCOM, Hyderabad.	Yes. MR are submitted regularly by online and upto date. LAs submission was for April 2014-15 and AR for the year 2014-15 has been submitted by online in time	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer: Shri P V Krishnaiah Yadav Geologist : Shri K Rambabu Manager : Shri P V Krishnaiah Yadav	During inspection it was observed that Manager : Shri K Ramasubbiah Mining Engineer : Shri P Naresh Agent: Shri K Ramasubbiah	Violation was observed in respect of new appointment
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	(i) Already exploited & abandoned by Nil opencast (O/C) mining (ii) Covered under current (O/C) 32.58 Ha Workings (v) Occupied by plant, buildings, 3.30 Ha residential, welfare buildings & roads (vi) Other Purpose (Plantation) 4.15 Ha	(i) Already exploited & abandoned by 1.15 Ha opencast (O/C) mining (ii) Covered under current (O/C) 32.58 Ha Workings (v) Occupied by plant, buildings, 3.30 Ha residential, welfare buildings & roads (vi) Other Purpose (Plantation) 4.15 Ha	Violation observed

9d	Scrutiny of Annual return on afforestation	Plantation has been carried out and observed in the field as furnished in AR 2014-15.		
	(a) Within lease area			
	(b) Outside lease area			
	(i) Number of trees planted during the year	4410		
		3750		
	(ii) Survival rate in %	96.50		
		96		
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil	For the year 2014-15
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM ore : 1320600.000 MT	ROM ore : 1320600.000 MT	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Rs 164.37 for Ex-mine price and Production Cost	Rs 164.37 for Ex-mine price and Production Cost	as lease is captive mine
9k	Scrutiny of Annual return on mining machineries	SHOVEL 3.3 m3 2 nos DUMPER 35 T 7 nos DUMPER 40T 2 nos DOZER 410 HP 1no. DRILL M/C 152 mm 1 no.	Same as furnished in AR	

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
Rule 13	01/06/2016				
Rule 23E(2)	01/06/2016				
Rule 27(4)	01/06/2016				
Rule 32(3)	01/06/2016				
Rule 42(1)(C)(I)	01/06/2016				
Rule 46	01/06/2016				
Rule 48	01/06/2016				

Date :
(SHRI IBRAHIM SARIF)

Indian Bureau of Mines