

INDIAN BUREAU OF MINES
MINERALS DEVELOPEMMENT AND REGULATION DIVISION

MCDR inspection REPORT

Hyderabad regional office

Mine file No : AP/ANP/LST-34/HYD

Mine code : 38APR02049

- (i) Name of the Inspecting : 160) kalmata.M.K
Officer and ID No.
- (ii) Designation : Regional Mining Geologist
- (iii) Accompanying mine : Shri Naveen Kumar , Mines Manager
Official with
Designation
- (iv) Date of Inspection : 30-DEC-22
- (v) Prev.inspection date : 08-JUN-22

PART-I : GENERAL INFORMATION

1. (a) Mine Name : ~~GUDIPADU (28.47 HA)~~ Amalgamated Gudipadu
Limestone Mine.
- (b) Registration NO. : IBM/1099/2011
- (c) Category : A Fully 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. : 0404456145
E-mail : brp.mines@pennecement.com
Phone : 04044565100
- (f) Police Station : YADIKI
- (g) First opening date : 20-NOV-12
- (h) Weekly day of rest : SUN
2. Address for : PLOT NO.705, SRINIKETHAN COLONY,
correspondance : ROAD NO. 3.BANJARA HILLS,
HYDERABAD.PIN:500034.
3. (a) Lease Number : APR1417
- (b) Lease area : ~~28.47~~ 421.096 Ha.
- (c) Period of lease : 20 50
- (d) Date of Expiry : ~~07-JUL-19~~ 07.07.2049.
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : M/S PENNA CEMENT INDIA LTD
 PLOT NO.705, SRINEKETHAN
 COLONY ROAD NO.3.BANJARA
 HILLS HYDERABAD HYDERABAD
 TELANGANA
 Phone:
 FAX :

Owner : M/S PENNA CEMENT INDIA LTD
 PLOT NO.705, SRINIKETHAN
 COLONY ROAD NO.3.BANJARA
 HILLS, HYDERABAD HYDERABAD
 TELANGANA
 Phone:
 FAX :

Mining Engineer

Name : Mr. Venkata Sumankumar Reddy, Full Time
 Qualification : B.E.Mining.
 Appointment/ : 02-FEB-22
 Termination date

Geologist

Name : K Rajashekar, Full Time
 Qualification : Msc Geology
 Appointment/ : 12-JUL-22
 Termination date

Geologist

Name : Mr. V.Veera Raghavulu, Full Time
 Qualification : MSC, Geology.
 Appointment/ : 28-MAY-22 12-JUL-22
 Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	30-OCT-14
Plan/Scheme of Mining		MP modif under 17(3) MCR 2016	24-AUG-20
		MP modif under 17(3) MCR 2016	15-JUL-22

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	There was a proposals to drill 43 boreholes in the year 2022-23 (06 core and 37 non-core)	The said exploration was not commenced so far.	Lessee was advised to complete the exploration within the time limit.
1b	Exploration over lease area for geological axis 1 or 2	Exploration was proposed to convert G-2, level of exploration to G-1. (depth wise)	There was a proposal to drill 43 boreholes in the year 2022-23, but the said exploration was not started so far.	lessee was advised to complete the said exploration within the proposed time limit. Since the said financial year was not completed , violation is not pointed out for the same.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No such proposals were given in the approved document.	None.	Previously the exploration was carried out by M/s. Penna Cement Industries only and Expenditure incurred on exploration , is approximately Rs-44,64,850.
1d	Balance area to be explored to bring Geological axis in 1 or 2	Exploration was proposed to know the continuity of ore body.	None.	The entire mineralized area is explored under G-1, level, laterally. However, the depth of the drilled boreholes are uneven and most of the boreholes were ended in ore only. So, lessee has proposed exploratory boreholes, to know the depth continuity of the ore body.

1e	Balance reserve as on 01/04/20	Reserves/resources as per the approved document dated 15-07-2022 is as follows. (In million tonnes) Mineable Reserves - 164.98 Remaining resources - 26.52 Total:- 191.50	Reserves/resources as on 01.12.2022 is as follows. (In million tonnes) Mineable Reserves - 163.53 Remaining resources - 26.52 Total:- 190.05	Reserves/resources were updated by depleting 1.45 million tonnes of production achieved between April-2022 to November-2022.
1f	General remarks of inspecting officers on geology, exploration etc		The area is part of Cuddapah basin and the geological succession pertains to kurnool system. The lease area is comprises of gray to massive dark gray limestone. The general strike of the formation is WNW-ESE and dip varies from 2 to 4 degree towards north. The entire mineralized area is laterally explored under G-1 level with 184 boreholes and total meterage of drilled boreholes is 3682.45.	Lessee has proposed exploration in the year 2022-23 to know the depth continuity of ore body. The said exploration was not commenced so far. Lessee was advised to complete the same within time limit.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	In the year 2022-23 there was a proposal to work between the co-ordinates N 1672520 to N 1673000 and E 818600 to E 819155.	Working has been carried out between the co-ordinates N 1672600 to N1672890 and E 818600 to 819000.	Working has been carried out within the proposed area.

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Benches were proposed in ore only.	Benches were made as per the proposal.	No overburden and topsoil is available in the area proposed for working. So no separate benches were proposed and formed in the year 2022-23.
2c	Stripping ratio or ore to OB ratio	None.	None.	
2d	Quantity of topsoil generation in m3	None.	None.	
2e	Quantity of overburden generation in m3	None in the year 2022-23.	None.	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		Working has been carried out as per the proposal and bench parameters were maintained within the proposed limit.	

Exploitation:

Sl.No.	Item	Proposals	Actual work	Remarks
3a	Number of pit proposed for production	One pit in the year 2022-23.	One pit.	Total three pits are existing within the lease area and dimension of each pit is as follows. Pit No-1:- 800m (L) x 520m (W) x 40m (D), Pit No-2: - 500m (L) x 455m (W) x 20m (D) and Pit No-3:- 347m (L) x 174m (W) X 10m (D).
3b	Quantity of ROM mineral production proposed	4500000 tonnes in the year 2022-23.	1451500 tonnes in the year 2022-23(up to Nov-2022)	
3c	Recovery of sailable/usable mineral from ROM production	100%.	100%	
3d	Quantity of mineral reject generation	None.	None.	

3e	Grade of mineral rejects generation and threshold value declared.	Not applicable.	Not applicable.	
3f	Quantity of sub grade mineral generation.	None.	None.	
3g	Grade of sub grade mineral generation	Not applicable.	Not applicable.	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised.	Mechanised.	Only dry crushing and screening outside the lease area (Lessee has installed crusher unit just adjacent to lease area).
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	None.	None.	
3j	Provision of drilling and blasting in mineral benches	yes proposed.	Drilling and blasting is being carried out as per the proposal.	Using hydraulic drill of 150mm dia for drilling and Blasting operation is carried out by ANFO and slurry.
3k	Provision of mining machineries in mineral benches	Yes, proposed combination of Hydraulic excavators and dumpers of 60 tonnes capacity for development.	Lessee is using combination of excavators and dumper as mentioned in the proposed column.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Proposed bench parameter is 10m (h) and width more than the height.	Height of the benches were maintained between 6 to 10 mtrs and width 20 to 40 mtrs.	Sufficient bench height and width were maintained suitable to method of mining.
3m	Total area covered under excavation/pits	72.04Ha in the present plan period, Up to 2023-24	70.38Ha up to 2022-23 (up to Nov 2022)	
3n	Ore to OB ratio for the pit/mine during the year.	None.	None.	

3o	Total area put in use under different heads at the end of year	Area under mining- 72.04Ha, Topsoil with limestone- 1.80Ha, Mineral storage- 4.00Ha, Infrastructure -5.568Ha	Area under mining- 70.38Ha, Infrastructure- 4.5Ha, Dumps-5.12Ha	
3p	Production of ROM mineral during the last five year period as applicable	2021-22 31,98,170T 2020-21 26,66,888T 2019-20 22,94,730T 2018-19 31,95,271T 2017-18 31,41,463T	2021-22 32,00,000T 2020-21 28,25,000T 2019-20 20,40,000T 2018-19 19,31,500T 2017-18 14,82,312T	In the year 2021-22 and 2020-21, production was made morethan the proposal. However, the deviation was 0.057 and 5.93% only and it is beoow the EC limit, Since the deviation was lessthan 20% and within the existing EC limit violation is not pointed out for the same.
3q	General remarks of inspecting officers on method of mining etc.	Method of mining adopted is Fully machanized with heavy machinaries. Lessee is using combination of excavator and dumper of 60 tonnes capacity for development. The bench parameters were maintained suitable to method of mining. In the year 2020-21 and 2021-22 production is made morethan the proposal. However, the deviation is below 20% and within the existing EC limit , so no violation is pointed out for excess production.		

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) No such proposals were given in the approved document. None in the year 2022-23.
- Topsoil generated during the plan period is utilized for plantation work within the lease area. Further, no OB and Mineral reject were generated in the year 2021-22 & 2022-23 (up to Nov-2023).
- 4b Location of topsoil, OB and mineral reject dumps No such proposals were given in the approved document. None in the year 2021-22 and 2022-23.
- Two Mineral reject dumps are existing within the lease area and details are as follows. Dump no-1, located in the Southern part of the lease area near BP- 5 and 8 and second dump existing near pit no 1, (southern side of the pit). during inspection it was observed that dump no- partially extended beyond safety zone and violation is pointed out for the same under Rule 11(1) of MCDR 2017.
- 4c Number of dumps within lease area and outside of lease area No such proposals were given in the approved document. No dumping was made in the present plan period.
- Two old mineral reject dumps are existing within the lease area.
- 4d Location of dumps w.r.t. ultimate pit limit (Rule 16) No dumping was proposed in the present plan period. No dumping was made in the present plan period.
- Two old mineral reject dumps are existing within the lease area, out of which one dump is existing within the UPL. There is no working proposals in the dump area which is existing within the UPL. The dump will be rehandled or utilized during advancement of the benches in future.

4e	Number of active and alive dumps.	No dumping proposals were made in the present plan period.	No dumping was made in the present plan period.	Two old active mineral reject dumps are existing within the lease area.
4f	Number of dead dumps.	None.	None.	
4g	Number of dumps established.	None.	None.	
4h	Whether Retaining wall or garland drain all along dumps are there.	No such proposals were given in the approved document.	No garland drain or retaining walls were made in the present plan period.	The dump heights are below 5 mtrs so no retaining walls are proposed and constructed at present. Lessee has maintaining the garland drains existing along the toe of the dump.
4i	Length of Retaining wall or garland drain all along dumps	No such proposals were given in the approved document.	Nil in the present plan period.	About 150mtr garland drain is existig along the toe of the mineral rejecte dump.
4j	Number of settling ponds	None.	None.	
4k	Specific comments of inspecting officer on waste dump management		In the present plan period generation of Overburden and Mineral reject is Nil only, and entire topsoil removed during present plan period was utilized for making plantation within the lease area, so, no dumping was made in the present plan period. Further, two old mineral reject dumps are existing within the lease area. The height of the dumps is below 5. mtr so no retaing walls are constructed. Garland drains were made along the toe of the dumps.	

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 backfilling is proposed in the present plan period.	No backfilling is made in the present plan period.	Mineral is not extracted up to the proved depth, so, no backfilling was proposed and made in the present plan period.
5b	Area under backfilling of mined out area	No such proposals were given in the approved document.	None.	No area is matured for backfilling.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	None.	None.	The topsoil removed during plan period is utilized for making plantation in the 7.5 mtr safety zone.
5d	Total area fully reclaimed and rehabilitated	None.	None.	
5e	General remarks of inspecting officers on backfilling and reclamation etc.		Mineral is not extracted upto the proved depth and no area is matured for backfilling, so no backfilling was proposed and made in the present plan period.	

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).	Before 1st july of every year.	Lessee has submitted PMCP report for the year 2021-22.	Submitted PMCP report for the year 2021-22, within the time limit.
6b	Area available for rehabilitation (ha) .	None.	None.	
6c	afforestation done (ha).	0.27 Ha, in the year 2021-22.	1.3 Ha, in the year 2021-22.	
6d	No. of saplings planted during the year	300 saplings were proposed in the year 2021-22.	2833 saplings were plantaed in the year 2021-22.	

6e	Cumulative no .of plants	650 saplings were propo	Total plantation made in the present plan period is 4073.	Total saplings plantated so far is 34,000.
6f	Any other method of rehabilitation	None.	None.	
6g	Cost incurred on watch and care during the year	None.	About 3.00 to 4.00lakhs	Including watch and care of plantation and environment monitoring.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	None.	None.	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	None.	None.	
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on on backfilled area	None.	None.	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	None.	None.	
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	None.	None.	
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	None.	None.	

6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	None.	None.	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	None.	None.	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposed regular monitoring of Air, water and noise in the core and buffer zone.	Lessee has carried out environmental monitoring in the month of January 2022 for Air, Water and Noise and all the parameters are found within permissible limit.	Environmental monitoring was carried out by B.S.Envi-Tech Pvt.Ltd., Secunderabad. Lessee has submitted copy of report to this office.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		Lessee has made total 4073 plantation in the present plan period and 34,000 cumulatively so far. Provided garland drains around the old mineral reject dumps. Lessee is regularly monitoring Air and water and results are within permissible limit. Submitted yearly report on PMCP for the year 2021-22.	

Mineral Conservation:

Sl.No.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Dispatching ROM to Crusher which is existing adjacent to the lease boundary and crushed material to plant.	Dispatch is being carried out as per the proposal.	Lessee is dispatching ROM to crusher which is existing adjacent to the lease boundary (Outside the lease).

7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanica	Mechanica	
7c	Different grade of mineral sorted out at mines.	Cement Grade.	Cement Grade.	
7d	Any beneficiation process at mines .	None.	None.	Lessee is doing only mechanical size reduction outside the lease area. Crusher is installed just adjacent to the lease area.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		Lessee is using entire ROM by blending lowgrade with the high grade as per the requirement of the plant. Further, for size reduction lessee has installed a crushing plant adjacent to the lease boundary.	

Environment:

Sl.No.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes, proposed.	The topsoil is removed separately as per the proposal.	
8b	Concurrent use or storage of topsoil	Proposed concurrent use.	The topsoil removed during the present plan period is utilized for making plantation within the lease area.	17040 cum topsoil was removed in the year 2021-22 and entire topsoil was utilized for making plantation within the lease area.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No such proposals were given in the approved document.	Generation of OB, waste rock and reject was nil in the present plan period and no dumping was made.	Mineral rejects generated in the past was stacked separately for future use.

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	None.	None.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	None.	None.	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)		Yes, information was given in the approved mining plan. Additionally lessee has planted 34,000 saplings within the lease area.	
8g	Survival rate	None.	85 to 90%	Lessee is monitoring the plantation by regular maintenance and watering by deploying man power.
8h	Water sprinkling on roads to control airborne dust	Yes, proposed.	Regularly spraying water on the working benches, Haul road etc.	One water tanker of 12,000 ltr capacity is in use for dust suppression.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		Benches and haulage roads were maintained systematically. One water tanker is deployed for sprinkling water in the working area and on the haulage roads. Plantation was made in the 7.5 mtr safety zone and engaged manpower for monitoring plantation.	

Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	A monthly returns shall be submitted before 10 th day of every month in respect of preceding month and an annual returns shall be submitted before 1st day of july of each year for the preceding financial year.	Lessee is regularly submitting monthly and annual returns within the time limit.	Submitted Monthly returns up to November 2022 and annual returns 2021-22.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer:- Shri Venkata Suman Kumar Reddy, Geologist :- Shri V. Veera Raghavulu and Mines Manager:- Shri J. Naveen Kumar Reddy.	Mining Engineer:- Shri Venkata Suman Kumar Reddy, Geologist :- Shri K Rajasekhar and Mines Manager:- Shri J. Naveen Kumar Reddy.	Lessee has submitted notice of appointment for Mining engineer and Geologist.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under Mining- 65.67Ha, Infrastructure -4.5Ha, Dumps-5.12Ha.	The details furnished in the Annual returns are almost found correct.	
9d	Scrutiny of Annual return on afforestation	2833 saplings and survival rate 96%.	The information furnished on number of saplings is almost found correcte. and rate of survival may be 85 to 90%.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	None.	None.	

9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM:- Opening and closing stock-Nil, Production-3200000 Tonnes.	The information furnished in the annual returns submitted for the year 2021-22 is found correct.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Graded ore: Cement Grade: Opening and closing stock-Nil, Production-3200000 Tonnes Sale Value- Nil, Exmine price and cost of production:- 185.20.	The information furnished is found correct.	The mine is captive mine , so sale value is nil only.
9h	Scrutiny of Annual return on fixed assets	Value of fixed asset is shown Rs 657674420	The information is found correct.	
9k	Scrutiny of Annual return on mining machineries	Shovel(Hydraulic)- 02 nos., Dumpers of 60 T capacity-06number, Drilling machine-01, Dozer-01.	The information furnished in the returns is found correct.	

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

Date :

(kalmata.M.K)

Indian Bureau of Mines

