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INDIAN BUREAU OF MINES
MINERALS DEVELOPEMNT AND REGULATION DIVISION

Review and updatation of Mining Plan REPORT

Hyderabad regional office

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

Mine code : 38APR14007

- (i) Name of the Inspecting : RAM) RAMKISHAN R
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Sri. V.Subramanyam ,Sr. GM Mines
Official with
Designation
- (iv) Date of Inspection : 29-SEP-22
- (v) Prev.inspection date :

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-AUG-84
- (h) Weekly day of rest : SUN
2. Address for
correspondance : PEDDAVEEDU VILLAGE, MATTAMPALLY MANDAL,
SURYAPET DISTRICT
TELANGANA STATE
3. (a) Lease Number : APR0067
- (b) Lease area : ~~143.67~~ 326.58 ha
- (c) Period of lease : 50
- (d) Date of Expiry : 17/08/2034
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-JAN-11
 Termination date

Geologist
 Name : MD.NAYEEM, Full Time
 Qualification : M.SC(GEO)
 Appointment/ : 24-DEC-07
 Termination date

Manager
 Name : V.SUBRAHMANYAM
 Qualification : DIPLOMA IN MINING & FIRSTCLASS MINES MAN
 Appointment/ : 02-MAR-05
 Termination date

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|-----------------------------------------------------|---|--------------------------------|-----------|
| 6. Date of approval of Mining Plan/Scheme of Mining | : | Mining Scheme rule 12 MCDR1988 | 17-JAN-01 |
| | | Modif.of approved Mining Plan | 07-DEC-03 |
| | | Renewal under rule 22 MCR1960 | 26-MAR-04 |
| | | Modif.of approved Mining Plan | 12-SEP-08 |
| | | Modif.of approved Mining Plan | 03-AUG-10 |
| | | Mining Scheme rule 12 MCDR1988 | 23-MAY-14 |
| | | MP review under 17(1) MCR 2016 | 21-MAR-18 |
| | | MP modif under 17(3) MCR 2016 | 14-MAR-22 |

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|---------------------------------------------------------------------|-----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|---------|
| 1a | Backlog of previous year | No such specific proposal. | Nil | |
| 1b | Exploration over lease area for geological axis 1 or 2 | No proposal. | However 19 nos of boreholes were drilled to borought area under G1/G2 level. | |
| 1c | Exploration Agencies and Expenditure in lakh rupees during the year | | Rs. 2,99,688/- | |
| 1d | Balance area to be explored to bring Geological axis in 1 or 2 | Entire mineralised area Explored under G1 level. | Entire mineralised area Explored under G1 level. | |
| 1e | Balance reserve as on 01/04/20 | As per the approved document dated 14.03.2022, the Limestone reserves are 118.655 mil.t | due to depletion/addition over the period of time the updated reserves as on dated 01.04.2022 are limestone: 118.075 milt.t. | |
| 1f | General remarks of inspecting officers on geology, exploration etc | | Limestone deposit in the area is massive fine grained grey limestone. the limestone show typically bedded nature with varying thickness. | |

Development :

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|------------------------------------------|-----------------------------------------------|------------------------------------|---------|
| 2a | Location of development w.r.t.lease area | Pit-1 and Pit-2 are proposed for development. | Pit-1 & Pit-2 are being developed. | |

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|----|-----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------|
| 2b | Separate benches in topsoil, overburden and minerals (Rule 15) | top soil is propsoed to be removed by scrapping and No OB generation is envisaged. benches in mineral are proposed. | top soil is scrapped seperately. benches in mineral are produced. | |
| 2c | Stripping ratio or ore to OB ratio | Not applicable | Nil | No OB/waste generation is envisaged. |
| 2d | Quantity of topsoil generation in m3 | 24500 cu.m. during the year 2021-22. | 24500 cu.m. | |
| 2e | Quantity of overburden generation in m3 | No proposal. | Nil | |
| 2f | General remarks of inspecting officers on development of pit w.r.t. type of deposit etc | | development is carried out by opencast mining method as proposed. | |

Exploitation:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---------------------------------------------------------|--------------------------------------|--------------|---------|
| 3a | Number of pit proposed for production | two | two | |
| 3b | Quantity of ROM mineral production proposed | 2.897 mil.t during the year 2021-22. | 2.525 mil.t. | |
| 3c | Recovery of sailable/usable mineral from ROM production | 100% | 100% | |
| 3d | Quantity of mineral reject generation | No proposal. | Nil | |

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|----|------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|--------------------------------------------------------------|
| 3e | Grade of mineral rejects generation and threshold value declared. | No proposal. | Nil |
| 3f | Quantity of sub grade mineral generation. | No proposal. | Nil |
| 3g | Grade of sub grade mineral generation | No proposal. | Nil |
| 3h | Manual / Mechanised method adopted for segregating from ROM | Mechanised. | Mechanised. |
| 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 | drilling and blasting is proposed. | drilling & blasting is carried out. |
| 3k | Provision of mining machineries in mineral benches | excavator and dumper combination is proposed for excavation. | excavator and dumper combination is deployed for excavation. |
| 3l | Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM | 8-9 m | maintained. |
| 3m | Total area covered under excavation/pits | 128.086 ha at the end of plan period i.e. 2022-23. | 121.393 ha. |
| 3n | Ore to OB ratio for the pit/mine during the year. | Not applicable | Nil |

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|----|--------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| 3o | Total area put in use under different heads at the end of year | 195.28 ha at the end of plan period i.e. 2022-23. | 182.313 ha |
| 3p | Production of ROM mineral during the last five year period as applicable | 2017-18 - 2.25 mil.t. 2018-19 - 2.16 mil.t. 2019-20 - 2.23 mil.t. 2020-21 - 2.32 mil.t. 2021-22 - 2.897 milt. Million tonnes | 2017-18 - 2.28 mil.t. 2018-19- 2.168 mil.t. 2019-20 - 1.65 mil.t. 2020-21 - 2.31 mil.t. 2021-22: 2.525 mil.t. |
| 3q | General remarks of inspecting officers on method of mining etc. | | production is carried out from one pit by opencast mining method as proposed. |

Solid Waste Management - Dumping:

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|------------------------------------------------------------------|-------------------------------------------------------------------|--------------|---------|
| 4a | Separate dumping of topsoil, OB and mineral rejects (Rule 32,33) | proposed for top soil, no OB generation is envisaged. | carried out. | |
| 4b | Location of topsoil, OB and mineral reject dumps | Along the Lease boundary with in lease area toward s western side | carried out. | |
| 4c | Number of dumps within lease area and outside of lease area | No proposal. | Nil | |
| 4d | Location of dumps w.r.t. ultimate pit limit (Rule 16) | No proposal. | Nil | |
| 4e | Number of active and alive dumps. | No proposal. | Nil | |
| 4f | Number of dead dumps. | No proposal. | Nil | |

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|----|--------------------------------------------------------------------|--------------|--------------------------------------|
| 4g | Number of dumps established. | No proposal. | Nil |
| 4h | Whether Retaining wall or garland drain all along dumps are there. | Provided. | provided. |
| 4i | Length of Retaining wall or garland drain all along dumps | No proposal. | Nil |
| 4j | Number of settling ponds | No proposal. | Nil |
| 4k | Specific comments of inspecting officer on waste dump management | | No OB/waste generation is envisaged. |

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) | No proposal. | Nil | |
| 5d | Total area fully reclaimed and rehabilitated | No proposal. | Nil | |
| 5e | General remarks of inspecting officers on backfilling and reclamation etc. | | Area not matured for reclamation. | |

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). | PMCP report to submitted. submitted before 1 st July. | | |
| 6b | Area available for rehabilitation (ha) . | No proposal. | Nil | |
| 6c | afforestation done (ha). | 1 ha during the year 2021-22 | 1 ha | |
| 6d | No. of saplings planted during the year | 2500 nos | 2500 nos | |
| 6e | Cumulative no .of plants | 147901 nos | 147901 nos | |
| 6f | Any other method of rehabilitation | No proposal. | Nil | |
| 6g | Cost incurred on watch and care during the year | | Rs. 1377312 | |
| 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)Afforestati on on backfilled area | No proposal. | Nil | |

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|----|-----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| 6k | Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir | No proposal. | Nil |
| 6l | Compliance on reclamation and rehabilitation by backfilling (v) any other specific means. | No proposal. | Nil |
| 6m | Compliance of rehabilitation of waste land within lease (i) afforestation | No proposal. | Nil |
| 6n | Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha) | No proposal. | Nil |
| 6o | Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation | No proposal. | Nil |
| 6p | Compliance of environmental monitoring (core zone and buffer zone) | Periodical Monitoring as stipulated in Environment Clearance granted by MoEF & CC and Consent to Operate granted by SPCB. | Periodical Monitoring as stipulated in Environment Clearance granted by MoEF & CC and Consent to Operate granted by SPCB is carried out. |
| 6q | General remarks of inspecting officers on PMCP compliance and progressive closure operations etc. | | PMCP measures were carried out as proposed. |

Mineral Conservation:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|----------------------------------------------------------------------------------------|------------------------|------------------------------------------------------------------|----------------------------------------------------------------------|
| 7a | ROM Mineral dispatch or grade-wise sorting within lease area | proposed. | carried out. | entire ROM (Limestone) of cement grade is used in the captive plant. |
| 7b | Method of grade-wise mineral sorting i.e. manual or mechanical. | mechanical. | mechanical. | |
| 7c | Different grade of mineral sorted out at mines. | cement grade limestone | cement grade limestone | |
| 7d | Any beneficiation process at mines | No proposal. | Nil | |
| 7e | General remarks of inspecting officer on Mineral conservation and beneficiation issues | | entire ROM (limestone) of cement grade is used at captive plant. | |

Environment:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|------------------------------------------------------------------------|--------------|--------------|---------|
| 8a | Separate removal and utilization of topsoil (Rule 32) | proposed. | carried out. | |
| 8b | Concurrent use or storage of topsoil | proposed. | carried out. | |
| 8c | Separate dumps for overburden, waste rock, rejects and fines (Rule 33) | No proposal. | Nil | |

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|----|-------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|--------------------------------------------------------------|
| 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) | 2500 nos | 2500 nos |
| 8g | Survival rate | | 86% |
| 8h | Water sprinkling on roads to control airborne dust | water sprinkling on haul roads for dust suppression is proposed. | carried out. |
| 8i | General remarks of inspecting officer on aesthetic beauty in and around mines area | | aesthetic beauty in and around the mines area is maintained. |

Compliance of Rule 45:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|----------------------------------------------------|-----------------------------------------------------------------------------|-------------|---------|
| 9a | Status of submission of Monthly and Annual returns | Monthly and annual returns are to be submitted as per rule 45 of MCDR, 2017 | submitted. | |

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|----|-----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|
| 9b | Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager | Graduate Mining Engineer 2, Diploma Mining Engineer 3, Geologist 1 | found to be in order. | |
| 9c | Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. | Covered under current (O/C) Workings 121.393 ha, Used for waste disposal 2.450 ha, Occupied by plant, buildings, residential, welfare buildings & roads 58.470 ha | found to be in order. | |
| 9d | Scrutiny of Annual return on afforestation | 2500 nos | found to be in order. | |
| 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 closing stock is Nil | found to be in order. | |
| 9g | Scrutiny of Annual return on sale value, Ex. Mine price and production cost | Ex-Mine price is Rs. 213.4 | Ex-Mine price furnished in the annual return submitted for the year 2021-22 is not matching with the derived weighted average of the Ex-mine prices furnished in Monthly returns for the year 2021-22. | advised the lessee to rectify the issue. |
| 9h | Scrutiny of Annual return on fixed assets | Rs. 370873178 | Rs. 370873178 | |

9k Scrutiny of SHOVEL found to be in order.
Annual return on (HYDRAULIC)
mining 6.500 CUM 1,
machineries SHOVEL
(HYDRAULIC)
6.000 CUM 1,
SHOVEL
(HYDRAULIC)
4.300 CUM 1
WHEEL LOADER
6.900 CUM 1,
etc.,

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 |

No violation.

R. Dalvi

(RAMKISHAN R)

Date : 4/11/22

Indian Bureau of Mines