

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

**MCDR inspection REPORT
Jabalpur regional office**

Mine file No : MP/KTN/LST-61

Mine code : 38MPR18025

- (i) Name of the Inspecting : **C004**) **ROBERT SIMON C**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Sh.Manish Upadhyay, Mines Manager
Official with
Designation
- (iv) Date of Inspection : 04-DEC-20
- (v) Prev.inspection date : 27-NOV-19

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **GANGA - I (5.76 HA)**
- (b) **Registration NO.** :
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address
State : MADHYA PRADESH
District : KATNI
Village : BADARI
Taluka : VIJAYRAGHAVGARH
Post office : KAYMORE
Pin Code : 483880
FAX No. : N. A.
E-mail : snsktm@sancharnet.in
Phone : 07622- 221976, 222304
- (f) Police Station :
- (g) First opening date : 03-APR-78
- (h) Weekly day of rest : THU
2. Address for : M/S ACC Limited
correspondance : P.O. KYMORE, VIA. JUKEHI,
DIST KATNI (M.P.) 483501
3. (a) Lease Number : MPR0264
(b) Lease area : 5.76
(c) Period of lease : 20
(d) Date of Expiry : 02-APR-18
4. Mineral worked : LIMESTONE Main
DOLOMITE Associated

5. Name and Address of the

Lessee : ACC Limited
P.O. KYMORE VIA JUKEHI
KATNI MADHYA PRADESH
Phone:N. A.
FAX :N. A.

Owner : ACC Limited
P.O. KYMORE VIA JUKEHI
KATNI MADHYA PRADESH
Phone: N. A.
FAX : N. A.

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|-------------------------------|---|--------------------------------|-----------|
| 6. Date of approval of Mining | : | Mining Scheme rule 12 MCDR1988 | 04-AUG-04 |
| Plan/Scheme of Mining | | Mining Scheme rule 12 MCDR1988 | 06-MAR-13 |
| | | Mining Scheme rule 12 MCDR1988 | 18-SEP-14 |
| | | MP modif under 17(3) MCR 2016 | 15-JAN-18 |

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|---|----------------|---|---------|
| 1a | Backlog of previous year | Nil | Nil | |
| 1b | Exploration over lease area for geological axis 1 or 2 | Nil | The Entire lease area has already been explored upto G1 level | |
| 1c | Exploration Agencies and Expenditure in lakh rupees during the year | NA | NA | |
| 1d | Balance area to be explored to bring Geological axis in 1 or 2 | Nil | The Entire lease area has already been explored upto G1 level | |
| 1e | Balance reserve as on 01/04/20 | 2780589 tonnes | 2769013 tonnes | |
| 1f | General remarks of inspecting officers on geology, exploration etc | | | |

Development :

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|--|-------------------------|-------------------------|---------|
| 2a | Location of development w.r.t.lease area | northwest of the quarry | northwest of the quarry | |
| 2b | Separate benches in topsoil, overburden and minerals (Rule 15) | proposed | as per proposal | |
| 2c | Stripping ratio or ore to OB ratio | 1:0.10 | 1:0.24 | |
| 2d | Quantity of topsoil generation in m3 | Nil | Nil | |

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|----|---|------|------|
| 2e | Quantity of overburden generation in m3 | 5000 | 9013 |
| 2f | General remarks of inspecting officers on development of pit w.r.t. type of deposit etc | | |

Exploitation:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|--|---------------------------------|---------|
| 3a | Number of pit proposed for production | 01 | 01 | |
| 3b | Quantity of ROM mineral production proposed | 50000 | 38423.98 | |
| 3c | Recovery of sailable/usable mineral from ROM production | Entire ROM is to be used in Cement plant | Entire ROM used in Cement plant | |
| 3d | Quantity of mineral reject generation | nil | nil | |
| 3e | Grade of mineral rejects generation and threshold value declared. | NA | NA | |
| 3f | Quantity of sub grade mineral generation. | Nil | Nil | |
| 3g | Grade of sub grade mineral generation | NA | NA | |
| 3h | Manual / Mechanised method adopted for segregating from ROM | No segregation proposed | No segregation done | |

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| 3i | Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects. | not proposed | not done |
| 3j | Provision of drilling and blasting in mineral benches | proposed | as per proposal |
| 3k | Provision of mining machineries in mineral benches | proposed | as per proposal |
| 3l | Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM | yes | Height is suitable for the mining method proposed |
| 3m | Total area covered under excavation/pits | 5.5 ha | 5.5 ha |
| 3n | Ore to OB ratio for the pit/mine during the year. | 1:0.10 | 1:0.24 |
| 3o | Total area put in use under different heads at the end of year | 5.76 ha | 5.76 ha |
| 3p | Production of ROM mineral during the last five year period as applicable | 2015-16 50626 2016-17 50859 2017-18 50550 2018-19 31850 2019-20 50000 | 2015-16 1924.08 2016-17 20013.9 2017-18 37596 2018-19 31424 2019-20 38423.98 |
| 3q | General remarks of inspecting officers on method of mining etc. | | |

Solid Waste Management - Dumping:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|--|-----------|--------------------------|---------|
| 4a | Separate dumping of topsoil, OB and mineral rejects (Rule 32,33) | proposed | one OB dump maintained | |
| 4b | Location of topsoil, OB and mineral reject dumps | proposed | one OB dump within lease | |
| 4c | Number of dumps within lease area and outside of lease area | proposed | one OB dump within lease | |
| 4d | Location of dumps w.r.t. ultimate pit limit (Rule 16) | proposed | outside upl | |
| 4e | Number of active and alive dumps. | 01 | 01 | |
| 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. | yes | 20m of retaining wall | |
| 4i | Length of Retaining wall or garland drain all along dumps | proposed | 20m of retaining wall | |
| 4j | Number of settling ponds | Nil | Nil | |
| 4k | Specific comments of inspecting officer on waste dump management | | | |

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 extraction of mineral proposed before starting backfilling | full extraction of mineral not achieved yet to start backfilling |
| 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 | nil |
| 5d | Total area fully reclaimed and rehabilitated | nil | nil |
| 5e | General remarks of inspecting officers on backfilling and reclamation etc. | | |

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). | yes | not submitted | violation pointed out |
| 6b | Area available for rehabilitation (ha) . | NIL | NIL | |
| 6c | afforestation done (ha) . | NIL | NIL | |
| 6d | No. of saplings planted during the year | NIL | NIL | |
| 6e | Cumulative no .of plants | NIL | NIL | |

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|----|---|-----|-----|
| 6f | Any other method of rehabilitation | NIL | NIL |
| 6g | Cost incurred on watch and care during the year | NA | NA |
| 6h | Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L x B x D | NIL | NIL |
| 6i | Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings | NA | NA |
| 6j | Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area | NA | NA |
| 6k | Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir | NA | NA |
| 6l | Compliance on reclamation and rehabilitation by backfilling (v) any other specific means. | NIL | NIL |
| 6m | Compliance of rehabilitation of waste land within lease (i) afforestation | NA | NA |

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|----|---|----------|-----------------|
| 6n | Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha) | NA | NA |
| 6o | Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation | NA | NA |
| 6p | Compliance of environmental monitoring (core zone and buffer zone) | proposed | as per proposal |
| 6q | General remarks of inspecting officers on PMCP compliance and progressive closure operations etc. | | |

Mineral Conservation:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|-------------------------------|---|---------|
| 7a | ROM Mineral dispatch or grade-wise sorting within lease area | ROM mineral dispatch proposed | ROM mineral dispatched to captive cement plant owned by the lessee. | |
| 7b | Method of grade-wise mineral sorting i.e. manual or mechanical. | no sorting proposed | not done | |
| 7c | Different grade of mineral sorted out at mines. | NA | NA | |
| 7d | Any beneficiation process at mines | not proposed | not done | |

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| 7e | General remarks of inspecting officer on Mineral conservation and beneficiation issues | ROM mineral dispatched to captive cement plant owned by the lessee. |
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Environment:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|---------------------|-----------------------|---------|
| 8a | Separate removal and utilization of topsoil (Rule 32) | not proposed | nil | |
| 8b | Concurrent use or storage of topsoil | NA | NA | |
| 8c | Separate dumps for overburden, waste rock, rejects and fines (Rule 33) | 01 OB dump proposed | 01 OB dump maintained | |
| 8d | Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use | not proposed | 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) | not proposed | not done | |

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|----|--|----------|----------------------|
| 8g | Survival rate | NA | NA |
| 8h | Water sprinkling on roads to control airborne dust | proposed | done as per proposal |
| 8i | General remarks of inspecting officer on aesthetic beauty in and around mines area | | |

Compliance of Rule 45:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|-----------|--|---------|
| 9a | Status of submission of Monthly and Annual returns | proposed | AR submitted till 2019-20 MR submitted till March-2021 | |
| 9b | Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager | yes | Manager Mr Manish Kumar Upadhayay Mining Engineer in charge Mr Deepak Mishra Geologist in charge Mr Nihar Tripathy | |
| 9c | Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. | yes | Covered under current (O/C) Workings 5.500 ha Used for waste disposal 0.260 ha | |
| 9d | Scrutiny of Annual return on afforestation | yes | Number of trees planted during the year is 250 nos outside lease | |
| 9e | Scrutiny of Annual return on mineral reject generation (Grade and quantity) | yes | nil | |
| 9f | Scrutiny of Annual return on ROM stock and/or graded ore | yes | nil | |

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| 9g | Scrutiny of Annual return on sale value, Ex. Mine price and production cost | yes | ex mine price of cement grade limestone is 214.91 rupees |
| 9h | Scrutiny of Annual return on fixed assets | yes | Value of Fixed Assets (in Rs) 1162313665 -/- |
| 9k | Scrutiny of Annual return on mining machineries | yes | BACK HOE 2.800 CUM 2 Non Electrical Opencast BACK HOE 3.800 CUM 1 Non Electrical Opencast DUMPER 40.000 TONNE 2 Non Electrical Opencast DUMPER 50.000 TONNE 6 Non Electrical Opencast DOZER 320.000 HP 1 Non Electrical Opencast BLAST HOLE DRILL (ELEC.) 115.000 MM 1 Non Electrical Opencast EXPLOSIVE VAN 10.000 TONNE 1 Non Electrical Opencast CRUSHER 350.000 T/H 1 Electrical Opencast CONVEYOR (ELEC.) 400.000 T/H 1 Electrical Opencast SHOVEL (HYDRAULIC) 2.800 CUM 1 Non Electrical Opencast |

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 26(2) | 06-DEC-20 | 23-MAR-21 | | | | |
| MCDR17 | Rule 33 | 06-DEC-20 | 23-MAR-21 | | | | |
| MCDR17 | Rule 35(2) | 06-DEC-20 | 23-MAR-21 | | | | |

Date :

(ROBERT SIMON C)

Indian Bureau of Mines