

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

MCDR inspection REPORT

Bangalore regional office

Mine file No : KNT/GLB/LST/7/BNG

Mine code : 38KAR10012

- (i) Name of the Inspecting : **S19**) **SANDEEP KUMAR SINGH**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Shri. Vikram Singh, Chief Mgr - Mining, &
Official with
Designation
- (iv) Date of Inspection : 22/09/2021
- (v) Prev.inspection date : 08/08/2017

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **WADI - I**
- (b) **Registration NO.** : **IBM/256/2011**
- (c) **Category** : **A Fully Mechanised**
- (d) **Type of Working** : **Opencast**
- (e) **Postal address**
- State : **KARNATAKA**
- District : **GULBARGA**
- Village : **WADI**
- Taluka : **CHITTAPUR**
- Post office : **WADI**
- Pin Code :
- FAX No. : **022-25811618**
- E-mail : **kunj.verma@acclimited.com**
- Phone : **022-67973967 (O),948068626:**
- (f) **Police Station** : **Chittapur**
- (g) **First opening date** : **09/09/1968**
- (h) **Weekly day of rest** : **SUN**
2. **Address for correspondance** : **M/s ACC Limited, Wadi Cement Works**
Wadi-585 225, Taluk-Chittapur
Dist-Gulbarga , State -Karnataka
3. (a) **Lease Number** : **KAR0074**
- (b) **Lease area** : **471.03**
- (c) **Period of lease** : **20**
- (d) **Date of Expiry** : **18/02/2023**
4. **Mineral worked** : **LIMESTONE** Main
- CLAY (OTHERS) Associated
- SHALE Associated

5. Name and Address of the

Lessee : ACC Limited
WADI CEMENT WORKS, WADI
[P.O], GULBARGA, GULBARGA
KARNATAKA
Phone:08476-62411
FAX :08476-62190

Owner : Mr. Sridhar Balakrishnan,MD & CEO,
121, Maharshi Karve road
Cement House Mumbai -
400020 MUMBAI (SUBURBAN)
MAHARASHTRA
Phone: 7738147500
FAX :

Agent : SeethaRamulu Ch
ACC Limited, Wadi-585225
Chittapur
Dist.Gulbarga,Karnataka
GULBARGA KARNATAKA
Phone: 9480686051
FAX :

Mining Engineer
Name : B N Prasadrao,Full Time
Qualification : B.E. Mining Engineering
Appointment/ : 20/06/2016
Termination date

Geologist
Name : JAGDISH MADIVAL,Full Time
Qualification : M.Sc (GEOLOGY)
Appointment/ : 05/07/2013
Termination date

Manager
Name : Vikram Singh
Qualification : FCC
Appointment/ : 01/05/2020
Termination date

6. Date of approval of Mining	:	Existing rule 11 MCDR1988	28/06/1990
Plan/Scheme of Mining	:	Modif.of approved Mining Plan	10/06/1993
	:	Mining Scheme rule 12 MCDR1988	12/10/1994
	:	Mining Scheme rule 12 MCDR1988	08/03/2000
	:	Renewal under rule 22 MCR1960	16/06/2003
	:	Mining Scheme rule 12 MCDR1988	20/10/2008
	:	Mining Scheme rule 12 MCDR1988	24/09/2013
	:	MP review under 17(1) MCR 2016	08/11/2017
	:	MP modif under 17(3) MCR 2016	09/09/2020

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal.	Nil.	Nil.
1b	Exploration over lease area for geological axis 1 or 2	No proposal.	Nil	Nil
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal.	Nil	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	G1 axis-390.04 Ha G3 axis-80.99 Ha	G1 axis-390.04 Ha G3 axis-80.99 Ha	Wadi 2 Cement Plant area falls in G3 axis (80.99 ha)
1e	Balance reserve as on 01/04/20	i)41.21 million tonnes of Cement Grade Limestone as on 1.08.2020. ii)32.31 million tonnes of shale as on 1.08.2020.	Limestone: 111 - 37150000 tons Shale: 111 - 32310000 tons	As per the Annual Returns submitted for the FY:2020-21. The details of Mineral Resource is not reported correctly under UNFC code-331 in Sec 3(B)(3) as per the approved document, for Limestone. Violation issued under Rule 45(7)
1f	General remarks of inspecting officers on geology, exploration etc			The details of Mineral Resource is not reported correctly under UNFC code-331 in Sec 3(B)(3) of AR 2020-21, as per the approved document, for Limestone. Violation issued under Rule 45(7) of MCDR 2017.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t. lease area	Western side ML7-ML13 N-1888200 to 18872000 E-708600 to 709600 Eastern side ML0-ML8A N-1889600 to 1888000 E-710600 to 712000	It was observed during site inspection that development of OB 1st bench between Sec 6A-6A' to Sec 8A-8A' of the eastern pit were not advanced as per the proposal. Also, at the Western pit systematic development of OB 1st bench between Sec 8-8' to 10-10' were not advanced as per the proposal.	Violation issued under Rule 11(1).
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches proposed in Overburden and Mineral	Separate benches maintained in overburden and Mineral as per the proposal.	Nil
2c	Stripping ratio or ore to OB ratio	1:0.1 (In tons)	1:0.1 (In tons)	Ore-55,26,321 tons OB- 6,11,400 tons (As reported in AR 2020-21).
2d	Quantity of topsoil generation in m3	4131 cum.	3821.25 cum.	Nil.
2e	Quantity of overburden generation in m3	409042 cum.	382125 cum	Nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			It was observed during site inspection that development of OB 1st bench between Sec 6A-6A' to Sec 8A-8A' of the eastern pit were not advanced as per the proposal. Also, at the Western pit systematic development of OB 1st bench between Sec 8-8' to 10-10' were not advanced as per the proposal. Violation issued under Rule 11(1) of MCDR 2017.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One pit proposed for production.	Actual production is carried out in one pit only.	Nil.
3b	Quantity of ROM mineral production proposed	66,50,965 tons of Limestone proposed.	55,26,321 tons of limestone produced.	Nil.
3c	Recovery of sailable/usable mineral from ROM production	100% proposed	100% achieved	Nil.
3d	Quantity of mineral reject generation	No Proposal.	Nil.	Nil.
3e	Grade of mineral rejects generation and threshold value declared.	No Proposal.	Nil.	Nil.
3f	Quantity of sub grade mineral generation.	No Proposal.	Nil.	Nil.
3g	Grade of sub grade mineral generation	No Proposal.	Nil.	Nil.
3h	Manual / Mechanised method adopted for segregating from ROM	All the blasted material is proposed to be sent to crushers for further sizing	All the blasted material is sent to crushers for further sizing	3 crushers are operated to reduce size of material viz.-12.5mm, -50mm & -50mm; Crusher1-West side (850 tph) Crusher2-South side (1000 tph) Crusher3-North side (1200 tph)
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal.	Nil.	Nil.
3j	Provision of drilling and blasting in mineral benches	Deep Hole Drilling & Blasting proposed.	Deep Hole Drilling & Blasting carried out.	Drilling carried out by DTH Drills of 115mm & 150mm. Blasting is carried out by using ANFO, NONEL detonators & Electronic detonators.

3k	Provision of mining machineries in mineral benches	i)Excavator- 6.5 Cum-4 nos. & 10 Cum- 1 no. ii)Loader- 4.5 Cum-2 nos. iii) Dumper-85 tons- 5 nos. & 100 tons-6 nos. iv) Hydraulic Drill-115 mm- 1no. and 150 mm-2 nos. v)Dozer-1 no. vi)Water tanker-10 KL-1 no & 28 KL- 1 no.	i)Excavator-6.5 Cum-2 nos., 7 Cum- 1 no., 5 Cum-1 no. & 10 Cum- 1 no. ii)Loader- 5.5 Cum-1no. iii) Dumper-85 tons- 6 nos. & 100 tons-7 nos. & 40 tons-1 no. iv) Hydraulic Drill-115 mm-1no. and 150 mm-2 nos. v)Dozer-2 nos. vi)Water tanker-10 KL-1 no & 28 KL- 1 no	As reported in AR 2020-21.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Proposal for OB Bench Ht: 1 to 6m; Ore bench Ht: 4-10 m.	OB bench height- 3m Ore bench height- 8m	OB-1 bench Ore-4 benches.
3m	Total area covered under excavation/pits	300.85 Ha At the end of the plan period (18.02.2023)	291.38Ha	As reported in AR 2020-21.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.1	1:0.1	Ore-55,26,321 tons OB- 6,11,400 tons (As reported in AR 2020-21).
3o	Total area put in use under different heads at the end of year	i)Area under Mining-300.85 ha, ii)Waste dump- 5 ha iii)Top soil stotrage-6.6 ha iv)Infrastruct ure- 96.55 ha v)Green belt- 25 ha vi)Reclaimed & Rehabilitated area-15.6 ha	i)Area under Mining- 291.38 ha, ii)Waste dump- 5 ha iii)Top soil stotrage- 6.6 ha iv)Infrastructure- 96.55 ha v)Green belt-25 ha. vi) Reclaimed & Rehabilitated area-15.74 ha	The land use (area in ha) as given in Part-I (12) under 12(iii) have not been reported correctly in accordance with Para-8.6(Financial Assurance), of the approved document in AR 2020-21. Violation issued under Rule 45(7).

3p	Production of ROM mineral during the last five year period as applicable	2016-17 :77,19,750 2017-18 :77,18,250 2018-19: 66,74,073 2019-20: 66,65,983 2020-21: 66,05,794 (In tonnes)	2016-17 :51,00,099 2017-18 :56,80,730 2018-19: 61,28,618 2019-20: 59,32,933 2020-21: 55,26,321 (In tonnes)	Actual production is within the proposed limits.
3q	General remarks of inspecting officers on method of mining etc.			i)The ROM production was carried out within the proposed limit as per the proposal. ii)The plans & sections were not found maintained properly up to date as per the provision of this rule. The plan was not prepared and updated in UTM grid. Violation issued under Rule 31(4) of MCDR 2017.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate dumping of OB proposed (Backfilling proposed)	Backfilling of OB carried out at the proposed location.	West-1 Ha & East-4 Ha area for Backfilling. No mineral Reject generation. Topsoil generated utilized for plantation.
4b	Location of topsoil, OB and mineral reject dumps	Backfilling proposed West N-1888200 to 1887200 E- 708600 to 709600 East N-1889600 to 1888000 E- 710600 to 712000	Backfilling carried at the proposed extents as per the proposal.	Nil.

4c	Number of dumps within lease area and outside of lease area	3 OB dumps within the lease area.	3 OB dumps within the lease area.	Location of dump Dump1-Sec-ML8 to Sec-ML12 Dump2 - Sec-ML6A to Sec-ML8A Dump3 - Sec-ML0 to Sec-ML6A
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Within UPL.	Within UPL.	Temporary dump and will be rehandled.
4e	Number of active and alive dumps.	Nil.	Nil.	The OB generated is backfilled currently in the portion of west and East pit.
4f	Number of dead dumps.	3 nos. of dead dumps.	3 nos. of dead dumps.	Location of dump Dump1-Sec-ML8 to Sec-ML12 Dump2 - Sec-ML6A to Sec-ML8A Dump3 - Sec-ML0 to Sec-ML6A.
4g	Number of dumps established.	No proposal.	Nil.	Nil.
4h	Whether Retaining wall or garland drain all along dumps are there.	Garland drains present along the existing dumps.	Garland drain maintained along existing dumps.	Nil.
4i	Length of Retaining wall or garland drain all along dumps	No proposal for Retaining Wall & Garland drain.	Nil.	Nil.
4j	Number of settling ponds	No Proposal.	Nil.	Nil.

4k	Specific comments of inspecting officer on waste dump management	i)The OB generated has been backfilled at the earmarked location as per proposal. ii)The total quantity of Overburden/Waste removed during the year(tonnes) in Sec 4.2(C) & Quantity backfilled in Sec 4.2(C)(i) of AR 2020-21 have not been reported correctly. Violation issued under Rule 45(7) of MCDR 2017.
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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.	Backfilling proposed for the entire OB generated in the area where limestone is exhausted.	Backfilling is carried out after full extraction of mineral as per proposal.	Nil.
5b	Area under backfilling of mined out area	West-1Ha East-4 Ha	West-1Ha East-4 Ha	Backfilling carried out at the earmarked location as per proposal.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	4131 Cum of topsoil proposed to be generated and to be used concurrently for plantation.	3821 Cum of top soil generated and used concurrently for plantation on the backfilled area.	
5d	Total area fully reclaimed and rehabilitated	15.6 ha considered as fully reclaimed and rehabilitated.	15.6Ha	As per the last approved document.

5e	General remarks of inspecting officers on backfilling and reclamation etc.	Backfilling carried out the west and east of the pit at the earmarked location as per proposal.
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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).	To be submitted before 1st of July every year.	Annual PMCP report for the year 2020-21 submitted on 30.06.2021	Nil.
6b	Area available for rehabilitation (ha) .	1.5 ha for afforestation in untouched area proposed.	1.5 ha afforestation carried out in untouched area as per the proposal.	As reported in Annual PMCP report 2020-21 by the Lessee.
6c	afforestation done (ha).	1.5 ha for afforestation in untouched area proposed.	1.5 ha afforestation carried out in untouched area as per the proposal.	As reported in Annual PMCP report 2020-21 by the Lessee.
6d	No. of saplings planted during the year	3000 nos. of saplings proposed.	3000 nos. of saplings planted as per the proposal within the Lease area.	As reported in AR 2020-21.
6e	Cumulative no .of plants	1,20,754 nos. of plants within ML area.	1,21,754 nos. of plants within ML area.	As reported in Annual PMCP report 2020-21 by the Lessee.
6f	Any other method of rehabilitation	No proposal.	Nil.	Nil.
6g	Cost incurred on watch and care during the year	Rs.9,36,323 proposed for plantation and watch and care.	Rs.9,50,000 expenses incurred.	As reported in Annual PMCP report 2020-21 by the Lessee.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Proposed area for compliance on reclamation of voids by backfilling as: Sump 7 L-400M; B-200M Sump3A L-300M; B-200M	The actual work done to fill the void by backfilling with generated overburden as: Sump 7 L-150M; B-200M Sump3A L-150 M; B-200M	As reported in Annual PMCP report 2020-21 by the Lessee. The proposed area is as per the approved document.

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal.	Nil.	Nil.
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	No proposal.	Nil.	Nil.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal.	Nil.	Nil.
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	No proposal.	Nil.	Nil.
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	No proposal.	Nil.	Nil.
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	No proposal.	Nil.	Nil.
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	No proposal.	Nil.	Nil.
6p	Compliance of environmental monitoring (core zone and buffer zone)	Seasons wise environmental monitoring of air, water, soil & noise proposed for both core & buffer zone.	Season wise environmental monitoring of air, water, soil & noise was carried out as per the proposal. for both core and buffer zone. Environmental monitoring report of month Feb-21 available during inspection.	All environmental parameters within the permissible limit

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	The PMCP proposals have been implemented in mines as per the proposal.
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Direct ROM dispatch to the captive plant. Only Crushing Proposed	Blasted material is sent to the crusher for further sizing & dispatched to the captive cement plant.	3 crusher units Crusher1-West side (850 tph) Crusher2-South side (1000 tph) Crusher3-North side (1200 tph)
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No proposal.	Nil.	All material excavated is used for cement manufacturing in the Captive Cement plant.
7c	Different grade of mineral sorted out at mines.	No Sorting Proposed .	Nil.	Nil.
7d	Any beneficiation process at mines .	No proposal.	Nil.	Nil.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Entire ROM produced are being utilized with proper blending in the cement plant.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Separate removal & utilization of top soil proposed.	Separate removal & utilization of top soil carried out.	Top soil is used for plantation purposes.

8b	Concurrent use or storage of topsoil	4131cum of top soil proposed to be used concurrently for plantation.	3821.25cum of top soil generated is used concurrently for plantation.	Nil.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate earmarked place for backfilling is proposed.	OB generated is backfilled as per proposal in the earmarked location.	Overburden is backfilled & no other waste rock/rejects/fines occur in mines.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Separate earmarked place for backfilling is proposed West-1Ha East-4 Ha	OB excavated is backfilled as per proposal. West-1Ha East-4 Ha	OB is backfilled & plantation is done & no other waste rock / rejects / fines occur in mines
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Separate earmarked place for backfilling is proposed West-1Ha East-4 Ha	OB excavated is backfilled as per proposal. West-1Ha East-4 Ha	Restoration, reclamation & rehabilitation of lands affected by mining operations are being progressed phase-wise by backfilling & plantation as per proposal.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	1,20,754 nos. of plants within ML area.	1,21,754 nos. of plants within ML area.	As reported by Lessee in Annual PMCP Report 2020-21.
8g	Survival rate	80-85% proposed within ML area.	85% achieved within ML area.	As reported by Lessee in AR 2020-21.
8h	Water sprinkling on roads to control airborne dust	Water sprinkling on haul roads proposed for dust suppression.	Water sprinkling on haul roads carried out for dust suppression.	02 water tankers each of 28KL & 10KL are utilized for water sprinkling at haul roads.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			The aesthetic beauty in and around the mine looks good.

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		M.R. Submitted up to Aug 2021 on 6th Sep 2021 ***** A.R. Submitted up to 2020-21 on 01st Jul 2021	Nil.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Manager: Shri. Vikram Singh Mining Engineer: Shri. B N Prasadrao Geologist: Shri. Jagadish M K	Information on Mining Engineer, Manager & Geologist provided.	Nil.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	i)Area under Mining-300.85 ha, ii)Waste dump- 5 ha iii)Top soil stotrage-6.6 ha iv)Infrastruct ure- 96.55 ha v)Green belt- 25 ha vi)Reclaimed & Rehabilitated area-15.6 ha	i)Area under Mining- 291.38 ha, ii)Waste dump- 5 ha iii)Top soil stotrage- 6.6 ha iv)Infrastructure- 96.55 ha v)Green belt-25 ha. vi) Reclaimed & Rehabilitated area-15.74 ha	The land use (area in ha) as given in Part-I (12) under 12(iii) have not been reported correctly in accordance with Para-8.6(Financial Assurance), of the approved document. Violation issued under Rule 45(7) of MCDR 2017.
9d	Scrutiny of Annual return on afforestation	WML -3000 nos @ 85% survival rate OML-3000 nos. @ 80 % survivalrate	Appears to be Correct.	Nil.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil.	Appears to be Correct.	Nil.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM O/s- 0 tons Production- 55,26,321 tons C/s- 0 tons. Graded Ore (Cement Grade) O/s- 0 tons Production- 55,26,321 tons C/s- 0 tons.	Appears to be Correct.	Nil.

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost of production- Rs. 183.98 Ex. Mine Price-Rs. 183.97	Appears to be correct.	The mine is a captive mine.
9h	Scrutiny of Annual return on fixed assets	Rs. 1,92,38,11,923 /- (Including land, industrial & plant, machinery)	Appears to be correct.	The DMF and NMET amount has not been reported in Sec (5) (c) of AR 2020-21. Violation issued under Rule 45(7) of MCDR 2017.
9k	Scrutiny of Annual return on mining machineries	Drills - 115mm-1 no & 150 mm- 1no. Shovels- 6.5 Cum. - 02 nos; 10 Cum. - 01no; 7 Cum- 1no. 5 Cum- 1no Dumpers- 85 Tons- 06 nos; 100 Tons -07 nos; 40 Tons- 1 no. Loaders -5.5 Cum- 02 nos; Dozer-02 nos; Water tankers- 10KL-1 no. & 28KL-01 no.; Explosive van- 10 Tons-01no; Crusher- 850Tph-1no. ,1000 Tph-1no. & 1200 Tph-1 no.	Appears to be correct.	Nil.

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
MCDR17	Rule 11(1)	04/10/2021	08/11/2021				
MCDR17	Rule 31(4)	04/10/2021	08/11/2021				
MCDR17	Rule 45(7)(a)	04/10/2021	08/11/2021				

Date :

(SANDEEP KUMAR SINGH)

Indian Bureau of Mines