

MCDR-MiFLOLST/1/2022-BNG-IBM\_RO\_BNG  
INDIAN BUREAU OF MINES  
MINERALS DEVELOPEMMENT AND REGULATION DIVISION

I/29268/2024

**MCDR inspection REPORT**  
**Bangalore regional office**

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

**Mine code :** 38KAR10012

- (i) Name of the Inspecting : 277 ) GANGADHAR BHAKAT  
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : Sanjeev Tripathi , DGM Mining, Jagadish M K, Mgr - Ge  
Official with  
Designation
- (iv) Date of Inspection : 28/11/2023
- (v) Prev.inspection date : 31/05/2022

**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~~ ML No 2641
- (b) **Lease area** : 471.03 Ha
- (c) **Period of lease** : 50 Years, up to 31/03/2030
- (d) **Date of Expiry** : 31/03/2030
4. **Mineral worked** : LIMESTONE Main  
CLAY (OTHERS) Associated  
SHALE Associated

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## 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 : Ajay Kapur, Whole Time Director & CEO  
121, Maharshi Karve road,  
Cement House Mumbai - 400  
020 GULBARGA KARNATAKA  
Phone: 9820070057  
FAX :

Agent : Pavan Gandhi  
ACC Limited, Wadi-585225  
Taluk: Chittapur  
Dist.Gulbarga GULBARGA  
KARNATAKA  
Phone: 9764998324  
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 : SANJEEV TRIPATI.,,  
Qualification : DIP IN FCC  
Appointment/ : 19/05/2022  
Termination date

6. Date of approval of Mining Plan/Scheme of Mining	:	Existing rule 11 MCDR1988	28/06/1990
		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
		MP modif under 17(3) MCR 2016	20/10/2022
		MP review under 17(1) MCR 2016	07/03/2023

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## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal.	NIL	-
1b	Exploration over lease area for geological axis 1 or 2	No proposal.	NIL	-
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal.	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	--	Reserves: For Limestone: 111 - 21835612 Tons For Shale: 111 - 32310000 tons as on 01.04.2023	As per the Annual Returns submitted for the FY 2022-23. The details of Mineral Reserves for Limestone & Shale is not reported correctly under UNFC code-111 as per the approved Modified document. Hence, Violation pointed out under Rule 45(7).
1f	General remarks of inspecting officers on geology, exploration etc			the FY 2022- 23. The details of Mineral Reserves for Limestone & Shale have not been reported correctly under UNFC code-111 as per the approved modified document. Hence, Violation pointed out 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 ML2A-ML3A N1888870 to 1889194, E710860 to 711020 & Eastern side ML6A-8A N1888020 to 1888240, E711000 to 711800	Western Side N1888870 to 1889194, E710860 to 711020 & Eastern Side N1888020 to 1888240, E711501 to711798	Development carried out within the proposed grid.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches proposed in Overburden and Mineral.	Carried out as per proposal.	-
2c	Stripping ratio or ore to OB ratio	1:0.1	1:0.1	1:0.1 Ore-6204013 Tons OB- 777065 Tons (As reported in AR 2022-23)
2d	Quantity of topsoil generation in m3	4720 m3	3710m3	-
2e	Quantity of overburden generation in m3	467316m3	485666m3	-
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Development work carried out within the proposed location.

## 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.	-
3b	Quantity of ROM mineral production proposed	Limestone: 67,20,820 Tons	Limestone: 6204013Tons	Modified Review & Updation of Mining plan vide letter No.: 279/116/89/BNG dt: 20/10/2022.

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3c	Recovery of sailable/usable mineral from ROM production	100%	100%	-
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

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3k	Provision of mining machineries in mineral benches	Proposal of i)Excavator 6.5 Cum-4 nos. & 3 Cum- 2 nos. ii)Loader- 4.5 Cum-2 nos. iii) Dumper- 100 tons- 8 nos. & 30 tons-8 nos. iv) Hydraulic Drill- 150 mm- 1 no. v)Dozer- 1 no. vi)Water tanker-10 KL-1 no & 28 KL- 1 no.	i)Excavator-5 Cum-1 no., 7.2 Cum- 4 nos., & 10 Cum- 1 no. ii)Loader- 5.5 Cum-1no. iii) Dumper-85 tons- 2 nos. & 100 tons-8 nos. & 40 tons-2 no. iv) Drill Machine- 150 mm-2 nos. v)Dozer-1 no. vi)Water tanker-10 KL-1 no & 28 KL- 1 no, vii)Crusher- 3Nos (800Tph,1000 Tph &1200 Tph)	As reported in AR 2022-23.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Proposal for OB Bench height up to 4m; Ore bench height up to 10 m.	OB bench height- 4m Ore bench height- 10m	OB-1 bench Ore-3 benches.
3m	Total area covered under excavation/pits	305.54 Ha At the end of the plan period.	294.81 Ha	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.1	1:0.1	Ore-6204013 Tons OB- 777065 Tons (As reported in AR 2022-23)
3o	Total area put in use under different heads at the end of year	i)Area under Mining- 305.54 Ha, ii)Waste dump-2.69 Ha, iii)Top soil stotrage-4.36 Ha, iv)Infrastruct ure- 90.05Ha, v)Roads -0.87 Ha.	i)Area under Mining- 294.81 Ha, ii)Waste dump- 2.56 Ha, iii)Top soil stotrage-6.6 Ha, iv)Infrastructure- 89.98 Ha, v)Others-4.36 Ha.	-

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3p	Production of ROM mineral during the last five year period as applicable	2018-19 66,74,073 2019- 20:66,65,983 2020- 21:66,50,965 2021- 22:76,45,652 2022- 23:67,20,820 (in Tons)	2018-19:61,28,618 2019-20: 59,32,933 2020-21: 55,26,321 2021-22:63,44,642 2022-23: 62,04,013 (in Tons)	Actual production is within the proposed limit.
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3q	General remarks of inspecting officers on method of mining etc.	The ROM production was carried out within the proposed limit as per the approved Modified Review & Updation of Mining plan vide letter No.: 279/116/89/BNG dt:20/10/2022.
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## 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.	No mineral Reject generation. Topsoil generated utilized for plantation.
4b	Location of topsoil, OB and mineral reject dumps	Backfilling proposed West N-1887920 to 1887875 & E-709030 to 708970 East N-1888910 to 1888270 & E- 711381 to 711188	Backfilling carried at the proposed extents as per the proposal.	-
4c	Number of dumps within lease area and outside of lease area	WML-3nos OML-0	WML-3nos OML-0	

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4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Within the UPL.	Within the UPL.	-
4e	Number of active and alive dumps.	No proposal.	Nil.	The OB generated is backfilled currently in the portion of west and East pit.
4f	Number of dead dumps.	3 No's	3 No's	All dumps are matured & stabilized by plantation.
4g	Number of dumps established.	3 No's	3 No's	3 No's of Dumps are stabilized by plantation.
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.	-
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			The OB generated has been backfilled at the earmarked location as per proposal.

#### 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.	-
5b	Area under backfilling of mined out area	Proposed 1.0 Ha.	Backfilling done 1.32Ha	



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5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	4720 Cum of topsoil proposed to be generated and to be used concurrently for plantation.	3710 Cum of top soil generated and used concurrently for plantation on the backfilled area.	-
5d	Total area fully reclaimed and rehabilitated	17.35 ha considered as fully reclaimed and rehabilitated.	17.35Ha	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.

## 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 2022-23 submitted on 07/07/2023	-
6b	Area available for rehabilitation (ha) .	1.0 Ha for afforestation in untouched area proposed.	1.0 Ha afforestation carried out in untouched area as per the proposal.	As reported in Annual PMCP report 2022-23 by the Lessee.
6c	afforestation done (ha).	1.0 Ha for afforestation in untouched area proposed.	1.0 Ha afforestation carried out in untouched area as per the proposal.	
6d	No. of saplings planted during the year	2500 nos. of saplings proposed.	3000 No's. of saplings planted (WML 2500 No's & OML 500 No's).	As reported in AR 2022-23.
6e	Cumulative no .of plants	WML - 1,27,500 nos.	WML - 1,27,254 nos.	As reported in Annual PMCP report 2022-23 by the Lessee.
6f	Any other method of rehabilitation	No proposal.	NIL	NIL
6g	Cost incurred on watch and care during the year	Rs.10,50,000	Rs.11,10,000/-expenses incurred.	-

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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-500M; B-450M D-7m Sump3A L-300M; B-300M; D-5 M	The actual work done to fill the void by backfilling as: Sump 7 L-200M; B-150M; D7M Sump3A L-200M; B-150M; D- 5M	-
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)Afforestation on on backfilled area	No proposal.	NIL	-
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	-

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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)	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.	All environment monitoring parameters are within the permissible limits.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			The PMCP proposals have been carried out 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 being 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 proposal.	NIL	-
7d	Any beneficiation process at mines .	No proposal.	NIL	-
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Entire ROM produced is being utilized with proper blending in the cement plant.

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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 purpose.
8b	Concurrent use or storage of topsoil	4720 Cum of top soil proposed to be used concurrently for plantation.	3710 Cum 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 1.0 Ha	OB excavated is backfilled as per proposal.	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 1.0 Ha	OB excavated is backfilled as per proposal.	Restoration, reclamation & rehabilitation of lands affected by mining operations are being progressed phasewise by backfilling & plantation as per proposal.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	WML - 1,27,500 nos.	WML - 1,27,254 nos.	Plantation by karanj carried out at earmarked places.
8g	Survival rate	85%	80%	NIL
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 & 12KL 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.

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## Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted up to Mar 2023. A.R. Submitted up to 2022-23.		M.R. Submitted for the month Mar 2023 on 08/04/2023 A.R. for Year 2022-23 is submitted on 29.06.2023.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer: B. N. Prasadrao , B.E. Mining & Geologist: Jagadish M K. M.Sc	Appear to be correct.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	i)Area under Mining-294.81 Ha, ii)Waste dump- 2.56 Ha, iii)Top soil stotrage-6.6 Ha, iv)Infrastruct ure- 89.98 Ha, v)Others-4.36 Ha.	Appear to be correct.	
9d	Scrutiny of Annual return on afforestation	WML -2500 nos @ 80% survival rate OML-500 nos. @ 85 % survival rate.	Appear to be correct.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NIL	Appear to be correct.	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM O/s- 0 tons Production 6204013 Tons C/s- 0 tons. Graded Ore (Cement Grade) O/s- 0 tons Production 6204013 Tons C/s- 0 tons.	Appear to be correct.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost of production & Ex. Mine Price Rs. 209.59/- per Ton.	Appear to be correct.	

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9h	Scrutiny of Annual return on fixed assets	Fixed assets value of Rs 1979820387/-	Appear to be correct.
9k	Scrutiny of Annual return on mining machineries	i)Excavator-5 Cum-1 no., 7.2 Cum- 4 nos., & 10 Cum- 1 no. ii)Loader- 5.5 Cum-1no. iii) Dumper-85 tons- 2 nos. & 100 tons-8 nos. & 40 tons-2 no. iv) Drill Machine- 150 mm-2 nos. v)Dozer-1 no. vi)Water tanker-10 KL-1 no & 28 KL- 1 no, vii)Crusher- 3Nos (800Tph,1000 Tph &1200 Tph)	Appear to be correct.

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**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 45(7) (a)	08/01/2023	26/02/2024	MCDR17 Rule 45(7)	08/01/2023	26/02/2024

**Date :****(GANGADHAR BHAKAT)**

Indian Bureau of Mines