



ISO 9001, 14001 & 45001  
CERTIFIED COMPANY

# LAWN ENVIRO ASSOCIATES

[Engineers & Consultants in Pollution Control]

Recognised by Ministry of Environment Forest & Climate Change (MoEF & CC), GOI, New Delhi  
& Laboratory Accredited by NABL

## TEST REPORT

REF.NO: LAWN/DECCAN/2023

Date: 23-9-2023

### AMBIENT AIR QUALITY DATA

Name of the Industry & Address : **M/s. DECCAN CEMENTS LIMITED,**  
Bhavanipuram, Janpahad (P.O),  
Palakeedu (M), Suryapet (Dist.)

S.No	Date of sample	Time duration	Location	Avg. Flow rate (m <sup>3</sup> /min)	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )
1	19-9-2023	8 hr	Near Main gate	1.08	73	28	12	24
			Near Guest House	1.11	61	21	07	17
			Near Temple	1.06	50	15	05	15
			Near Commercial Office	1.13	69	25	10	21
<b>LIMIT</b>				---	<100	<60	<80	<80
<b>PROTOCOL / METHOD</b>					IS:5182 (Part-23); 2017/ Gravimetric Method	IS:5182 (Part-24); 2019/ Gravimetric Method	IS:5182 (Part-2); 2018/ New West & Gaeke Method	IS:5182 (Part-6); 2017/ Jacob & Hochheiser Method

1. RESPIRABLE DUST SAMPLER / APM 460 BL (SL.NO. 2461-DTA-2019), CALIBRATED ON 31-12-2022, DUE ON 30-12-2023
2. RESPIRABLE DUST SAMPLER / APM 460 BL (SL.NO. 2161-DTH-2011), CALIBRATED ON 31-12-2022, DUE ON 30-12-2023
3. RESPIRABLE DUST SAMPLER / APM 460 BL (SL.NO. 2464-DTA-2019), CALIBRATED ON 31-12-2022, DUE ON 30-12-2023
4. RESPIRABLE DUST SAMPLER / APM 460 BL (SL.NO. 2465-DTA-2019), CALIBRATED ON 31-12-2022, DUE ON 30-12-2023

1. FINE PARTICULATE SAMPLER / AAS 127 MINI; (SL.NO. 16-I-623), CALIBRATED ON 31-12-2022, DUE ON 30-12-2023
2. FINE PARTICULATE SAMPLER / AAS 127 MINI; (SL.NO. 17-F-731), CALIBRATED ON 31-12-2022, DUE ON 30-12-2023
3. FINE PARTICULATE SAMPLER / AAS 127 MINI; (SL.NO. 17-J-750), CALIBRATED ON 31-12-2022, DUE ON 30-12-2023
4. FINE PARTICULATE SAMPLER / AAS 127 MINI; (SL.NO. 17-J-751), CALIBRATED ON 31-12-2022, DUE ON 30-12-2023

  
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### AMBIENT AIR QUALITY DATA (BUFFER ZONE)

Name of the Industry & Address : **M/s. DECCAN CEMENTS LIMITED,**  
Bhavanipuram, Janpahad (P.O),  
Palakeedu (M), Suryapet (Dist.)

S.No	Date of sample	Time duration	Location	Avg. Flow rate (m <sup>3</sup> /min)	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )
1	20-9-2023	8 hr	Mahankalli Gudem Village	1.09	60	21	10	20
			Janpahad Darga	1.14	65	25	12	24
			Ravipahad Village	1.05	54	17	11	22
			Sunyapahad Village	1.10	56	19	07	16
<b>LIMIT</b>				---	<100	<60	<80	<80
<b>PROTOCOL / METHOD</b>					IS:5182 (Part-23); 2017/ Gravimetric Method	IS:5182 (Part-24); 2019/ Gravimetric Method	IS:5182 (Part-2); 2018/ New West & Gaeke Method	IS:5182 (Part-6); 2017/ Jacob & Hochheiser Method

1. RESPIRABLE: DUST SAMPLER / APM 460 BL (SL.NO. 2461-DTA-2019), CALIBRATED ON 31-12-2022, DUE ON 30-12-2023
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1. FINE PARTICULATE SAMPLER / AAS 127 MINI; (SL.NO. 16-I-623), CALIBRATED ON 31-12-2022, DUE ON 30-12-2023
2. FINE PARTICULATE SAMPLER / AAS 127 MINI; (SL.NO. 17-F-731), CALIBRATED ON 31-12-2022, DUE ON 30-12-2023
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Date: 23-9-2023

### AMBIENT AIR QUALITY DATA

Name of the Industry & Address : **M/s. DECCAN CEMENTS LIMITED,**  
Bhavanipuram, Janpahad (P.O),  
Palakeedu (M), Suryapet (Dist.)

Location	Near Main gate	LIMIT	PROTOCOL
1. Date of sampling	: 19-9-2023	--	---
2. Total time of monitoring	: 24 hr	--	---
3. Average flow rate (cum/m)	: 1.08	--	---
4. Particulate Matter Concentration ( $\mu\text{g}/\text{m}^3$ )-PM <sub>10</sub>	: 73	<100	IS-5182 (Part-23); 2017
5. Particulate Matter Concentration ( $\mu\text{g}/\text{m}^3$ )-PM <sub>2.5</sub>	: 28	<60	IS-5182 (Part-24); 2019
6. Sulphur Dioxide (SO <sub>2</sub> ) Concentration ( $\mu\text{g}/\text{m}^3$ )	: 12	<80	IS-5182 (Part-2); 2018
7. Nitrogen Dioxide (NO <sub>2</sub> ) Concentration ( $\mu\text{g}/\text{m}^3$ )	: 24	<80	IS-5182 (Part-6); 2017
8. Lead (Pb) Concentration ( $\mu\text{g}/\text{m}^3$ )	: 0.06	<1.0	IS-5182 (Part-22); 2019
9. Carbon monoxide (Co) Concentration ( $\text{mg}/\text{m}^3$ )	: 0.21	<2.0	IS-5182 (Part-10); 2019
10. Ammonia (NH <sub>3</sub> ) Concentration ( $\mu\text{g}/\text{m}^3$ )	: 22	<400	IS-5182 (Part-25); 2018
11. Ozone (O <sub>3</sub> ) Concentration ( $\mu\text{g}/\text{m}^3$ )	: 03	<100	IS-5182 (Part-9); 2019
12. Benzene (C <sub>6</sub> H <sub>6</sub> ) Concentration ( $\mu\text{g}/\text{m}^3$ )	: <0.02	<05	IS-5182 (Part-11); 2017
13. Arsenic (As) Concentration ( $\text{ng}/\text{m}^3$ )	: ND	<06	NAAQMS/ 36/2012-13
14. Nickel (Ni) Concentration ( $\text{ng}/\text{m}^3$ )	: ND	<20	IS-5182 (Part-26); 2020
15. Benzo pyrene (Bap) Particulate phase Concentration ( $\text{ng}/\text{m}^3$ )	: ND	<01	NAAQMS/ 36/2012-13

Note : ND-Not Detected

RESPIRABLE DUST SAMPLER / APM 460 BL (SL.NO. 2461-DTA-2019), CALIBRATED ON 31-12-2022, DUE ON 30-12-2023

FINE PARTICULATE SAMPLER / AAS 127 MINI; (SL.NO. 16-I-623), CALIBRATED ON 31-12-2022, DUE ON 30-12-2023

  
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REF.NO: LAWN/DECCAN/2023

Date: 23-9-2023

### AMBIENT AIR QUALITY DATA


Name of the Industry & Address : **M/s. DECCAN CEMENTS LIMITED,**  
Bhavanipuram, Janpahad (P.O),  
Palakeedu (M), Suryapet (Dist.)

Location	Near Main gate	LIMIT	PROTOCOL
1. Lead (Pb) Concentration ( $\mu\text{g}/\text{m}^3$ )	: 0.06	<1.0	IS-5182 (Part-22); 2019
2. Carbon monoxide (Co) Concentration ( $\text{mg}/\text{m}^3$ )	: 0.21	<2.0	IS-5182 (Part-10); 2019
3. Ammonia ( $\text{NH}_3$ ) Concentration ( $\mu\text{g}/\text{m}^3$ )	: 22	<400	IS-5182 (Part-25); 2018
4. Ozone ( $\text{O}_3$ ) Concentration ( $\mu\text{g}/\text{m}^3$ )	: 03	<100	IS-5182 (Part-9); 2019
5. Benzene ( $\text{C}_6\text{H}_6$ ) Concentration ( $\mu\text{g}/\text{m}^3$ )	: <0.02	<05	IS-5182 (Part-11); 2017
6. Arsenic (As) Concentration ( $\text{ng}/\text{m}^3$ )	: ND	<06	NAAQMS/ 36/2012-13
7. Nickel (Ni) Concentration ( $\text{ng}/\text{m}^3$ )	: ND	<20	IS-5182 (Part-26); 2020
8. Benzo pyrene (Bap) Particulate phase Concentration ( $\text{ng}/\text{m}^3$ )	: ND	<01	NAAQMS/ 36/2012-13

Note : ND-Not Detected

RESPIRABLE DUST SAMPLER / APM 460 BL (SL.NO. 2461-DTA-2019), CALIBRATED ON 31-12-2022, DUE ON 30-12-2023

FINE PARTICULATE SAMPLER / AAS 127 MINI; (SL.NO. 16-I-623), CALIBRATED ON 31-12-2022, DUE ON 30-12-2023

  
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### FUGITIVE EMISSION DATA

Name of the Industry & Address : **M/s. DECCAN CEMENTS LIMITED,**  
Bhavanipuram, Janpahad (P.O),  
Palakeedu (M), Suryapet (Dist.)

PROTOCOL : IS-5182

S.No.	Location	Date	SPM ( $\mu\text{g}/\text{m}^3$ )
1	Near Cement Mill – III	19-9-2023	1,049
2	Near Crusher Area	19-9-2023	1,244
3	Near Cement Mill – 1 & 2	20-9-2023	1,097
4	Near VRM	20-9-2023	1,186
5	Near CPP	20-9-2023	1,129

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2. RESPIRABLE DUST SAMPLER / APM 460 BL (SL.NO. 2161-DTH-2011), CALIBRATED ON 31-12-2022, DUE ON 30-12-2023
3. RESPIRABLE DUST SAMPLER / APM 460 BL (SL.NO. 2464-DTA-2019), CALIBRATED ON 31-12-2022, DUE ON 30-12-2023

  
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## TEST REPORT

REF.NO: LAWN/DECCAN/2023

Date: 23-9-2023

### STACK MONITORING DATA

Name of the Industry & Address : **M/s. DECCAN CEMENTS LIMITED,**  
Bhavanipuram, Janpahad (P.O),  
Palakeedu (M), Suryapet (Dist.).

Sample Particulars : Stack attached to the 70 TPH Boiler (CPP)  
Date of Sampling : 19-9-2023

### PROTOCOL

1. Stack diameter (m)	: 2.80	--
2. Stack cross sectional area (sq m)	: 6.154	--
3. Flue gas temperature (°C)	: 129	IS-11255 (Part-3); 2018
4. Exit velocity of flue gases (m/sec)	: 7.35	IS-11255 (Part-3); 2018
5. Flow rate (cum/hr)	: 1,62,835	IS-11255 (Part-3); 2018

### EMISSION DATA LIMIT

6. Suspended particulate matter Concentration (mg/N m <sup>3</sup> )	: 34.50	<50	IS-11255 (Part-1); 2019
7. Sulphur dioxide Concentration (mg/N m <sup>3</sup> )	: 310.74	<600	IS-11255 (Part-2); 2019
8. Oxides of nitrogen Concentration (mg/N m <sup>3</sup> )	: 119.52	<300	IS-11255 (Part-7); 2017

  
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STACK MONITORING KIT : MODEL NO: APM-160/SI. No. 138-DTK-2020, Calibrated On 31-12-2022, Due On 30-12-2023  
M/s. LATA ENVIROTECH SERVICES.,



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Date: 23-9-2023

### STACK MONITORING DATA

Name of the Industry & Address : **M/s. DECCAN CEMENTS LIMITED,**  
Bhavanipuram, Janpahad (P.O),  
Palakeedu (M), Suryapet (Dist.).

Stack attached to the	Cement Mill-III	Crusher	PROTOCOL
1. Date of sampling	: 19-9-2023	19-9-2023	--
2. Stack diameter (m)	: 1.20	1.30	--
3. Stack cross sectional area (sq m)	: 1.13	1.327	--
4. Flue gas temperature (°C)	: 78	45	IS-11255 (Part-3); 2018
5. Exit velocity of flue gases (m/sec)	: 9.62	10.27	IS-11255 (Part-3); 2018
6. Flow rate (cum/hr)	: 39,134	49,062	IS-11255 (Part-3); 2018

### EMISSION DATA

### TSPCB Prescribed LIMIT

7. Suspended particulate matter Concentration (mg/Nm <sup>3</sup> )	: 14.94	20.81	<30	IS-11255 (Part-1); 2019
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AUTHORISED SIGNATORY

STACK MONITORING KIT : MODEL NO: APM-160/SI. No. 138-DTK-2020, Calibrated On 31-12-2022, Due On 30-12-2023  
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### STACK MONITORING DATA

Name of the Industry & Address : **M/s. DECCAN CEMENTS LIMITED,**  
Bhavanipuram, Janpahad (P.O),  
Palakeedu (M), Suryapet (Dist.)

Sample Particulars : Stack attached to the Kiln2/Raw Mill VRM (RABH)  
Date of Sampling : 20-9-2023

### PROTOCOL

1. Stack diameter (m)	:	4.20	--
2. Stack cross sectional area (sq m)	:	13.86	--
3. Flue gas temperature ( $^{\circ}$ C)	:	105	IS-11255 (Part-3); 2018
4. Exit velocity of flue gases (m/sec)	:	10.84	IS-11255 (Part-3); 2018
5. Flow rate (cum/hr)	:	5,40,873	IS-11255 (Part-3); 2018

### EMISSION DATA

### LIMIT

6. Suspended particulate matter Concentration (mg/Nm <sup>3</sup> )	:	15.74	<30	IS-11255 (Part-1); 2019
7. Sulphur dioxide Concentration (mg/Nm <sup>3</sup> )	:	1.16	<100	IS-11255 (Part-2); 2019
8. Oxides of nitrogen Concentration (mg/Nm <sup>3</sup> )	:	357	<800	IS-11255 (Part-7); 2017

  
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STACK MONITORING KIT : MODEL NO: APM-160/SI. No. 138-DTK-2020, Calibrated On 31-12-2022, Due On 30-12-2023  
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Name of the Industry & Address : **M/s. DECCAN CEMENTS LIMITED,**  
Bhavanipuram, Janpahad (P.O),  
Palakeedu (M), Suryapet (Dist.)

Sample Particulars : Stack attached to the Kiln - I  
Date of Sampling : 20-9-2023

### PROTOCOL

1. Stack diameter (m)	: 2.00	--
2. Stack cross sectional area (sq m)	: 3.14	--
3. Flue gas temperature (°C)	: 139	IS-11255 (Part-3); 2018
4. Exit velocity of flue gases (m/sec)	: 15.76	IS-11255 (Part-3); 2018
5. Flow rate (cum/hr)	: 1,78,151	IS-11255 (Part-3); 2018

### EMISSION DATA LIMIT

6. Suspended particulate matter Concentration (mg/N m <sup>3</sup> )	: 18.20	<30	IS-11255 (Part-1); 2019
7. Sulphur dioxide Concentration (mg/N m <sup>3</sup> )	: 15.70	<100	IS-11255 (Part-2); 2019
8. Oxides of nitrogen Concentration (mg/N m <sup>3</sup> )	: 381.90	<800	IS-11255 (Part-7); 2017

AUTHORISED SIGNATORY

STACK MONITORING KIT : MODEL NO: APM-160/SI. No. 138-DTK-2020, Calibrated On 31-12-2022, Due On 30-12-2023  
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Name of the Industry & Address : **M/s. DECCAN CEMENTS LIMITED,**  
Bhavanipuram, Janpahad (P.O),  
Palakeedu (M), Suryapet (Dist.).

Stack attached to the	: Coal Mill-I	Cooler - I	PROTOCOL
1. Date of sampling	: 19-9-2023	20-9-2023	--
2. Stack diameter (m)	: 0.70	2.00	--
3. Stack cross sectional area (sq m)	: 0.38	2.57	--
4. Flue gas temperature (°C)	: 75	204	IS-11255 (Part-3); 2018
5. Exit velocity of flue gases (m/sec)	: 11.32	8.63	IS-11255 (Part-3); 2018
6. Flow rate (cum/hr)	: 15,486	79,845	IS-11255 (Part-3); 2018

### EMISSION DATA

### TSPCB Prescribed LIMIT

7. Suspended particulate matter Concentration (mg/Nm <sup>3</sup> )	: 23.50	19.70	30	IS-11255 (Part-1); 2019
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Name of the Industry & Address : **M/s. DECCAN CEMENTS LIMITED,**  
Bhavanipuram, Janpahad (P.O),  
Palakeedu (M), Suryapet (Dist.)

Stack attached to the	: Coal Mill - II	Cooler ESP - II	PROTOCOL
1. Date of sampling	: 20-9-2023	20-9-2023	--
2. Stack diameter (m)	: 1.60	4.0	--
3. Stack cross sectional area (sq m)	: 2.01	12.57	--
4. Flue gas temperature (°C)	: 84	102	IS-11255 (Part-3); 2018
5. Exit velocity of flue gases (m/sec)	: 10.37	5.91	IS-11255 (Part-3); 2018
6. Flow rate (cum/hr)	: 75,037	2,67,439	IS-11255 (Part-3); 2018

### EMISSION DATA

### TSPCB Prescribed LIMIT

7. Suspended particulate matter Concentration (mg/Nm<sup>3</sup>) : 17.30      20.70      <30      IS-11255  
(Part-1); 2019

  
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STACK MONITORING KIT : MODEL NO: APM-160/SI. No. 138-DTK-2020, Calibrated On 31-12-2022, Due On 30-12-2023  
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### STACK MONITORING DATA

Name of the Industry & Address : **M/s. DECCAN CEMENTS LIMITED,**  
Bhavanipuram, Janpahad (P.O),  
Palakeedu (M), Suryapet (Dist.).

Sample Particulars : Stack attached to the Cement Mill - I & II  
Date of Sampling : 19-9-2023

### PROTOCOL

1. Stack diameter (m)	: 1.0	--
2. Stack cross sectional area (sq m)	: 0.785	--
3. Flue gas temperature (°C)	: 77	IS-11255 (Part-3); 2018
4. Exit velocity of flue gases (m/sec)	: 11.69	IS-11255 (Part-3); 2018
5. Flow rate (cum/hr)	: 33,036	IS-11255 (Part-3); 2018

### EMISSION DATA

### LIMIT

6. Suspended particulate matter Concentration (mg/N m <sup>3</sup> )	: 13.90	<30	IS-11255 (Part-1); 2019
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Name of the Industry & Address : **M/s. DECCAN CEMENTS LIMITED,**  
Bhavanipuram, Janpahad (P.O),  
Palakeedu (M), Suryapet (Dist.).

Sample Particulars : Stack attached to the Slag Mill  
Date of Sampling : 19-9-2023

### PROTOCOL

1. Stack diameter (m)	: 2.0	--
2. Stack cross sectional area (sq m)	: 3.14	--
3. Flue gas temperature (°C)	: 83	IS-11255 (Part-3); 2018
4. Exit velocity of flue gases (m/sec)	: 7.91	IS-11255 (Part-3); 2018
5. Flow rate (cum/hr)	: 89,415	IS-11255 (Part-3); 2018

### EMISSION DATA

### LIMIT

6. Suspended particulate matter Concentration (mg/N m <sup>3</sup> )	: 15.64	<30	IS-11255 (Part-1); 2019
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STACK MONITORING KIT : MODEL NO: APM-160/SI. No. 138-DTK-2020, Calibrated On 31-12-2022, Due On 30-12-2023  
M/s. LATA ENVIROTECH SERVICES.,



ISO 9001, 14001 & 45001  
CERTIFIED COMPANY

# LAWN ENVIRO ASSOCIATES

[Engineers & Consultants in Pollution Control]

Recognised by Ministry of Environment Forest & Climate Change (MoEF & CC), GOI, New Delhi  
& Laboratory Accredited by NABL

## TEST REPORT

REF.NO: LAWN/DECCAN/2023

Date: 23-9-2023

### WASTE WATER ANALYSIS

Name of the Industry & Address : **M/s. DECCAN CEMENTS LIMITED,**  
Bhavanipuram, Janpahad (P.O),  
Palakeedu (M), Suryapet (Dist.)

Date of Collection : 18-9-2023  
Date of Analysis : 19-9-2023  
PROTOCOL : A. P. H. A. 23<sup>rd</sup> Edition

	STP Inlet	STP Outlet	LIMITS
1. pH	: 7.34	7.91	5.5-8.5
2. Total Dissolved Solids	: 1,149	1,026	<2,100
3. Total Suspended Solids	: 223	20	<100
4. Chemical Oxygen Demand	: 261	43	<250
5. Bio Chemical Oxygen Demand (3 days at 27 °C)	: 122	07	<100
6. Chlorides as Cl	: 145	135	<600
7. Sulphates as So <sub>4</sub>	: 72	20	<1,000
8. Oil & Grease	: 2.60	<1.0	<10

Note : All the values except pH are expressed in mg/L.

  
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CERTIFIED COMPANY

## TEST REPORT

REF.NO: LAWN/DECCAN/2023

Date: 23-9-2023

### WASTE WATER QUALITY ANALYSIS

Name of the Industry & Address : **M/s. DECCAN CEMENTS LIMITED,**  
Bhavanipuram, Janpahad (P.O),  
Palakeedu (M), Suryapet (Dist.)

Date of Collection : 18-9-2023  
Date of Analysis : 19-9-2023  
PROTOCOL : A.P.H.A. 23<sup>rd</sup> Edition


	*I	*II	Limits As per GSR 422E
1. pH	: 7.43	7.76	6.50-8.50
2. Total dissolved solids	: 1,435	1,250	2100
3. Total Suspended solids (at 103-105 °C)	: 44	34	100
4. Chemical oxygen demand	: 97	64	250
5. Biochemical oxygen demand (3 days at 27 °C)	: 24	18	30
6. Chlorides as Cl	: 278	185	600
7. Sulphates as SO <sub>4</sub>	: 91	47	1000
8. Oil & Grease	: 0.77	0.18	10
9. Dissolved Oxygen	: 2.10	1.35	NS
10. Free available chlorine as Cl <sub>2</sub>	: Nil	Nil	0.50
11. Copper as Cu	: 0.17	0.12	1.0
12. Iron as Fe	: 0.38	0.18	1.0
13. Phosphate as P	: 0.31	0.13	5.0
14. Zinc as Zn	: 0.19	0.11	1.0
15. Chromium as Cr+6	: 0.14	0.04	0.20

Note: 1) \*I WHR Discharge water

\*II Treated Effluent water

2) All the values except pH are expressed in mg/L

3) NS – Not Specified.

  
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## TEST REPORT

REF.NO: LAWN/DECCAN/2023

Date: 23-9-2023

### WATER ANALYSIS

Name of the Industry & Address : **M/s. DECCAN CEMENTS LIMITED,**  
Bhavanipuram, Janpahad (P.O),  
Palakeedu (M), Suryapet (Dist.)

Sample Particulars : Borewell Water  
Date of Collection : 18-9-2023  
Date of Analysis : 19-9-2023  
PROTOCOL : A. P. H. A. 23<sup>rd</sup> Edition

As per IS:10500 - 2012

			Requirement (Acceptable Limit)	Permissible Limit in the absence of alternate source
1. pH	:	7.54	6.50 - 8.50	No relaxation
2. E.C (micromhos/cm)	:	659	NS	NS
3. Turbidity (NTU)	:	0.80	01 max	05 max
4. Total dissolved solids	:	368	500 max	2000 max
5. Total hardness	as CaCO <sub>3</sub>	: 206	200 max	600 max
6. Calcium	as Ca	: 55	75 max	200 max
7. Magnesium	as Mg	: 16.22	30 max	100 max
8. Sodium	as Na	: 50.22	NS	NS
9. Potassium	as K	: 3.67	NS	NS
10. Chloride	as Cl	: 56.11	250 max	1000 max
11. Sulphate	as SO <sub>4</sub>	: 36.18	200 max	400 max
12. Nitrates	as NO <sub>3</sub>	: 4.02	45 max	No relaxation
13. Methyl orange alkalinity	as CaCO <sub>3</sub>	: 200	NS	NS
14. Phenolphthalein alkalinity	as CaCO <sub>3</sub>	: Nil	NS	NS
15. Total Alkalinity	as CaCO <sub>3</sub>	: 200	200 max	600 max
16. Iron	as Fe	: 0.22	0.3 max	No relaxation
17. Fluorides	as F	: 0.78	1.0 max	1.5 max
18. Lead	as Pb	: 0.006	0.01	No relaxation
19. Copper	as Cu	: 0.009	0.05	1.50

### BACTERIOLOGICAL ANALYSIS

1. Total Plate Count/ml	:	216 CFU	NS	NS
2. MPN of Coliform/100ml	:	Absent	Absent	NS
3. MPN of E-Coli/100ml	:	Absent	Absent	NS

Note: 1) All the values except pH, Turbidity & E.C. are expressed in mg/L.  
2) NS – Not Specified

  
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## TEST REPORT

REF.NO: LAWN/DECCAN/2023

Date: 23-9-2023

### WATER ANALYSIS

Name of the Industry & Address : **M/s. DECCAN CEMENTS LIMITED,**  
Bhavanipuram, Janpahad (P.O),  
Palakeedu (M), Suryapet (Dist.)

Sample Particulars : Drinking Water (R.O. Water)  
Date of Collection : 18-9-2023  
Date of Analysis : 19-9-2023  
PROTOCOL : A. P. H. A. 23<sup>rd</sup> Edition

As per IS:10500 - 2012

			Requirement (Acceptable Limit)	Permissible Limit in the absence of alternate source
1. pH	: 7.84	6.50 - 8.50		No relaxation
2. E.C (micromhos/cm)	: 117	--		--
3. Turbidity (NTU)	: Nil	01 max		05 max
4. Total dissolved solids	: 65	500 max		2000 max
5. Total hardness	as CaCO <sub>3</sub> : 11.67	200 max		600 max
6. Calcium	as Ca : 2.51	75 max		200 max
7. Magnesium	as Mg : 1.29	30 max		100 max
8. Sodium	as Na : 22	--		--
9. Potassium	as K : 0.13	--		--
10. Chloride	as Cl : 12.12	250 max		1000 max
11. Sulphate	as SO <sub>4</sub> : 3.40	200 max		400 max
12. Nitrates	as NO <sub>3</sub> : 1.27	45 max		No relaxation
13. Methyl orange alkalinity	as CaCO <sub>3</sub> : 30	--		--
14. Phenolphthalein alkalinity	as CaCO <sub>3</sub> : Nil	--		--
15. Total Alkalinity	as CaCO <sub>3</sub> : 30	200 max		600 max
16. Iron	as Fe : <0.10	0.3 max		No relaxation
17. Fluorides	as F : 0.10	1.0 max		1.5 max
18. Lead	as Pb : <0.001	0.01		No relaxation
19. Copper	as Cu : <0.001	0.05		1.50

### BACTERIOLOGICAL ANALYSIS

1. MPN of Coliform/100ml	: Absent	Absent	--
2. MPN of E-Coli/100ml	: Absent	Absent	--

Note : All the values except pH & E.C. are expressed in mg/L.

  
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## TEST REPORT

REF.NO: LAWN/DECCAN/2023

Date: 23-9-2023

### AMBIENT NOISE QUALITY DATA

Name of the Industry & Address : **M/s. DECCAN CEMENTS LIMITED,**  
Bhavanipuram, Janpahad (P.O),  
Palakeedu (M), Suryapet (Dist.)

Location :	Levels in dB (A)	
	Day Time	Night Time
1. Near Main gate (Entrance Gate) :	63	58
2. Near Guest House :	54	49
3. Near Colony :	52	41
4. Near Temple :	51	40
5. Near Mahankaligudem (Village) :	53	42
6. Near Janpahad Durga (Village) :	50	39
7. Near Sunyapahad (Village) :	49	38

- Note:**
- Noise levels are monitored on 19-9-2023.
  - Instrument make - Lutron SL – 4001/G-49271, Calibrated on 22-02-2023, Due on 21-02-2024.
  - Day time is reckoned in between 6.0 am and 10.0 pm; Limit <75.0 dB (A)
  - Night time is reckoned in between 10.0 pm and 6.0 am; Limit <70.0 dB (A)

  
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## TEST REPORT

REF.NO: LAWN/DECCAN/2023

Date: 23-9-2023

### WORK ZONE NOISE QUALITY DATA

Name of the Industry & Address : **M/s. DECCAN CEMENTS LIMITED,**  
Bhavanipuram, Janpahad (P.O),  
Palakeedu (M), Suryapet (Dist.)


Location	:	Levels in dB (A)	
		Day Time	Night Time
1. Near Kiln	:	79	74
2. Near Coal Mill	:	80	75
3. Near Cement Mill	:	77	72
4. Near WHR	:	84	79
5. Near Crusher	:	82	77
6. Near Slag Mill	:	78	73
7. Near Stores	:	67	62
8. Near Commercial Office	:	66	61

Note: \*I 1. Noise levels are monitored on 19-9-2023.

2. Instrument make - Lutron SL – 4001/G-49271, Calibrated On 22-02-2023, Due On 21-02-2024.

\*II The noise Pollution (Regulation and Control) Rules, 2000

Schedule, Rule 3(1) and 4(1), Section 7 – (IX) factories act – Limit <90 dB (A).

  
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