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

ISO 9001, 14001 & 45001 CERTIFIED COMPANY

TEST REPORT

REF.NO: LAWN/DECCAN/2022 Date: 29-9-2022

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^3/min)	PM_{10} ($\mu g/m^3$)	$PM_{2.5}$ ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	NO_2 ($\mu g/m^3$)
1	20-9-2022	8 hr	Near Main gate	1.14	71	26	12	24
			Near Guest House	1.10	58	21	09	19
			Near Temple	1.08	56	19	06	17
			Near Commercial Office	1.06	63	23	10	22
LIMIT				---	<100	<60	<80	<80
PROTOCOL / METHOD					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 29-12-2021, DUE ON 28-12-2022
2. RESPIRABLE DUST SAMPLER / APM 460 BL (SL.NO. 2161-DTH-2011), CALIBRATED ON 29-12-2021, DUE ON 28-12-2022
3. RESPIRABLE DUST SAMPLER / APM 460 BL (SL.NO. 2464-DTA-2019), CALIBRATED ON 29-12-2021, DUE ON 28-12-2022
4. RESPIRABLE DUST SAMPLER / APM 460 BL (SL.NO. 2465-DTA-2019), CALIBRATED ON 29-12-2021, DUE ON 28-12-2022

1. FINE PARTICULATE SAMPLER / AAS 127 MINI; (SL.NO. 16-I-623), CALIBRATED ON 30-12-2021, DUE ON 29-12-2022
2. FINE PARTICULATE SAMPLER / AAS 127 MINI; (SL.NO. 17-F-731), CALIBRATED ON 30-12-2021, DUE ON 29-12-2022
3. FINE PARTICULATE SAMPLER / AAS 127 MINI; (SL.NO. 17-J-750), CALIBRATED ON 30-12-2021, DUE ON 29-12-2022
4. FINE PARTICULATE SAMPLER / AAS 127 MINI; (SL.NO. 17-J-751), CALIBRATED ON 30-12-2021, DUE ON 29-12-2022

AUTHORISED SIGNATORY

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

ISO 9001, 14001 & 45001
CERTIFIED COMPANY

TEST REPORT

REF.NO: LAWN/DECCAN/2022 Date: 29-9-2022

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^3/min)	PM_{10} ($\mu g/m^3$)	$PM_{2.5}$ ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	NO_2 ($\mu g/m^3$)
1	21-9-2022	8 hr	Mahankalli Gudem Village	1.12	58	22	06	16
			Janpahad Darga	1.03	68	27	12	23
			Ravipahad Village	1.09	61	24	10	21
			Sunyapahad Village	1.05	55	20	08	19
LIMIT				---	<100	<60	<80	<80
PROTOCOL / METHOD					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 29-12-2021, DUE ON 28-12-2022
2. RESPIRABLE DUST SAMPLER / APM 460 BL (SL.NO. 2161-DTH-2011), CALIBRATED ON 29-12-2021, DUE ON 28-12-2022
3. RESPIRABLE DUST SAMPLER / APM 460 BL (SL.NO. 2464-DTA-2019), CALIBRATED ON 29-12-2021, DUE ON 28-12-2022
4. RESPIRABLE DUST SAMPLER / APM 460 BL (SL.NO. 2465-DTA-2019), CALIBRATED ON 29-12-2021, DUE ON 28-12-2022

1. FINE PARTICULATE SAMPLER / AAS 127 MINI; (SL.NO. 16-I-623), CALIBRATED ON 30-12-2021, DUE ON 29-12-2022
2. FINE PARTICULATE SAMPLER / AAS 127 MINI; (SL.NO. 17-F-731), CALIBRATED ON 30-12-2021, DUE ON 29-12-2022
3. FINE PARTICULATE SAMPLER / AAS 127 MINI; (SL.NO. 17-J-750), CALIBRATED ON 30-12-2021, DUE ON 29-12-2022
4. FINE PARTICULATE SAMPLER / AAS 127 MINI; (SL.NO. 17-J-751), CALIBRATED ON 30-12-2021, DUE ON 29-12-2022

AUTHORISED SIGNATORY

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

ISO 9001, 14001 & 45001
CERTIFIED COMPANY

TEST REPORT

REF.NO: LAWN/DECCAN/2022 Date: 29-9-2022

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	:	20-9-2022	--	---
2. Total time of monitoring	:	24 hr	--	---
3. Average flow rate (cum/m)	:	1.14	--	---
4. Particulate Matter Concentration ($\mu g/m^3$)-PM_{10}	:	71	<100	IS-5182 (Part-23); 2017
5. Particulate Matter Concentration ($\mu g/m^3$)-$PM_{2.5}$	:	26	<60	IS-5182 (Part-24); 2019
6. Sulphur Dioxide (So_2) Concentration ($\mu g/m^3$)	:	12	<80	IS-5182 (Part-2); 2018
7. Nitrogen Dioxide (No_2) Concentration ($\mu g/m^3$)	:	24	<80	IS-5182 (Part-6); 2017
8. Lead (Pb) Concentration ($\mu g/m^3$)	:	0.05	<1.0	IS-5182 (Part-22); 2019
9. Carbon monoxide (Co) Concentration (mg/m^3)	:	0.26	<2.0	IS-5182 (Part-10); 2019
10. Ammonia (NH_3) Concentration ($\mu g/m^3$)	:	21	<400	IS-5182 (Part-25); 2018
11. Ozone (O_3) Concentration ($\mu g/m^3$)	:	04	<100	IS-5182 (Part-9); 2019
12. Benzene (C_6H_6) Concentration ($\mu g/m^3$)	:	<0.02	<05	IS-5182 (Part-11); 2017
13. Arsenic (As) Concentration (ng/m^3)	:	ND	<06	NAAQMS/ 36/2012-13
14. Nickel (Ni) Concentration (ng/m^3)	:	ND	<20	IS-5182 (Part-26); 2020
15. Benzo pyrene (Bap) Particulate phase Concentration (ng/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 29-12-2021, DUE ON 28-12-2022

FINE PARTICULATE SAMPLER / AAS 127 MINI; (SL.NO. 16-I-623), CALIBRATED ON 30-12-2021, DUE ON 29-12-2022

AUTHORISED SIGNATORY

Head Office : "LAWN HOUSE", #184-C, Vengalrao Nagar, Hyderabad - 500 038. (T.S.) INDIA. Tel : 040-66730925, 66730926, Fax : 040-66730926
Branch Office : D.No.31-58-103, MIG-71, Phase-7, Road No.4/4, Dwarakapuri Colony, Kurmanapallem, Vishakhapatnam-530046.Tel : 9701505182
E-mail : lawnenviro@yahoo.co.in, Website : www.lawnenviro.com

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

ISO 9001, 14001 & 45001 CERTIFIED COMPANY

TEST REPORT

REF.NO: LAWN/DECCAN/2022 Date: 29-9-2022

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 ($\mu g/m^3$)	:	0.05	<1.0	IS-5182 (Part-22); 2019
2. Carbon monoxide (Co) Concentration (mg/m^3)	:	0.26	<2.0	IS-5182 (Part-10); 2019
3. Ammonia (NH_3) Concentration ($\mu g/m^3$)	:	21	<400	IS-5182 (Part-25); 2018
4. Ozone (O_3) Concentration ($\mu g/m^3$)	:	04	<100	IS-5182 (Part-9); 2019
5. Benzene (C_6H_6) Concentration ($\mu g/m^3$)	:	<0.02	<05	IS-5182 (Part-11); 2017
6. Arsenic (As) Concentration (ng/m^3)	:	ND	<06	NAAQMS/ 36/2012-13
7. Nickel (Ni) Concentration (ng/m^3)	:	ND	<20	IS-5182 (Part-26); 2020
8. Benzo pyrene (Bap) Particulate phase Concentration (ng/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 29-12-2021, DUE ON 28-12-2022

FINE PARTICULATE SAMPLER / AAS 127 MINI; (SL.NO. 16-I-623), CALIBRATED ON 30-12-2021, DUE ON 29-12-2022

AUTHORISED SIGNATORY

Head Office : "LAWN HOUSE", #184-C, Vengalrao Nagar, Hyderabad - 500 038. (T.S.) INDIA. Tel : 040-66730925, 66730926, Fax : 040-66730926
Branch Office : D.No.31-58-103, MIG-71, Phase-7, Road No.4/4, Dwarakapuri Colony, Kurmanapallem, Vishakhapatnam-530046.Tel : 9701505182
E-mail : lawnenviro@yahoo.co.in, Website : www.lawnenviro.com

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/2022

Date: 29-9-2022

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 ($\mu g/m^3$)
1	Near Cement Mill – III	20-9-2022	1,148
2	Near Crusher Area	20-9-2022	1,095.12
3	Near Cement Mill – 1 & 2	21-9-2022	1,204.28
4	Near VRM	21-9-2022	1,178
5	Near CPP	21-9-2022	1,122

1. RESPIRABLE DUST SAMPLER / APM 460 BL (SL.NO. 2461-DTA-2019), CALIBRATED ON 29-12-2021, DUE ON 28-12-2022
2. RESPIRABLE DUST SAMPLER / APM 460 BL (SL.NO. 2161-DTH-2011), CALIBRATED ON 29-12-2021, DUE ON 28-12-2022
3. RESPIRABLE DUST SAMPLER / APM 460 BL (SL.NO. 2464-DTA-2019), CALIBRATED ON 29-12-2021, DUE ON 28-12-2022

AUTHORISED SIGNATORY

Head Office : "LAWN HOUSE", #184-C, Vengalrao Nagar, Hyderabad - 500 038. (T.S.) INDIA. Tel : 040-66730925, 66730926, Fax : 040-66730926
Branch Office : D.No.31-58-103, MIG-71, Phase-7, Road No.4/4, Dwarakapuri Colony, Kurmanapallem, Vishakhapatnam-530046.Tel : 9701505182
E-mail : lawnenviro@yahoo.co.in, Website : www.lawnenviro.com

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

ISO 9001, 14001 & 45001
CERTIFIED COMPANY

TEST REPORT

REF.NO: LAWN/DECCAN/2022 Date: 29-9-2022

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 : 21-9-2022

			PROTOCOL
1. Stack diameter (m)	: 2.80		--
2. Stack cross sectional area (sq m)	: 6.154		--
3. Flue gas temperature (^{o}C)	: 124		IS-11255 (Part-3); 2018
4. Exit velocity of flue gases (m/sec)	: 9.64		IS-11255 (Part-3); 2018
5. Flow rate (cum/hr)	: 2,13,568		IS-11255 (Part-3); 2018
	EMISSION DATA	**LIMIT**	
6. Suspended particulate matter Concentration (mg/N m^3)	: 30.10	<50	IS-11255 (Part-1); 2019
7. Sulphur dioxide Concentration (mg/N m^3)	: 321.28	<600	IS-11255 (Part-2); 2019
8. Oxides of nitrogen Concentration (mg/N m^3)	: 100.0	<300	IS-11255 (Part-7); 2017

AUTHORISED SIGNATORY

STACK MONITORING KIT : MODEL NO: APM-160/Sl. No. 138-DTK-2020, Calibrated On 31-12-2021, Due On 30-12-2022
M/s. LATA ENVIROTECH SERVICES.,

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

ISO 9001, 14001 & 45001 CERTIFIED COMPANY

TEST REPORT

REF.NO: LAWN/DECCAN/2022 Date: 29-9-2022

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	:	20-9-2022	20-9-2022		--
2. Stack diameter (m)	:	1.20	1.30		--
3. Stack cross sectional area (sq m)	:	1.13	1.327		--
4. Flue gas temperature (^{0}C)	:	82	40		IS-11255 (Part-3); 2018
5. Exit velocity of flue gases (m/sec)	:	11.74	9.68		IS-11255 (Part-3); 2018
6. Flow rate (cum/hr)	:	47,758	46,243		IS-11255 (Part-3); 2018
EMISSION DATA				TSPCB Prescribed LIMIT	
7. Suspended particulate matter Concentration (mg/Nm^3)	:	16.50	23.80	<30	IS-11255 (Part-1); 2019

AUTHORISED SIGNATORY

STACK MONITORING KIT : MODEL NO: APM-160/Sl. No. 138-DTK-2020, Calibrated On 31-12-2021, Due On 30-12-2022
M/s. LATA ENVIROTECH SERVICES.

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

ISO 9001, 14001 & 45001 CERTIFIED COMPANY

TEST REPORT

REF.NO: LAWN/DECCAN/2022 Date: 29-9-2022

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 VRM
Date of Sampling : 20-9-2022

				PROTOCOL
1. Stack diameter (m)	:	2.0		--
2. Stack cross sectional area (sq m)	:	3.14		--
3. Flue gas temperature (^{0}C)	:	73		IS-11255 (Part-3); 2018
4. Exit velocity of flue gases (m/sec)	:	10.24		IS-11255 (Part-3); 2018
5. Flow rate (cum/hr)	:	1,15,753		IS-11255 (Part-3); 2018
		EMISSION DATA	**LIMIT**	
6. Suspended particulate matter Concentration (mg/Nm^3)	:	13.70	<30	IS-11255 (Part-1); 2019

AUTHORISED SIGNATORY

STACK MONITORING KIT : MODEL NO: APM-160/Sl. No. 138-DTK-2020, Calibrated On 31-12-2021, Due On 30-12-2022
M/s. LATA ENVIROTECH SERVICES.,

Head Office : "LAWN HOUSE", #184-C, Vengalrao Nagar, Hyderabad - 500 038. (T.S.) INDIA. Tel : 040-66730925, 66730926, Fax : 040-66730926
Branch Office : D.No.31-58-103, MIG-71, Phase-7, Road No.4/4, Dwarakapuri Colony, Kurmanapallem, Vishakhapatnam-530046.Tel : 9701505182
E-mail : lawnenviro@yahoo.co.in, Website : www.lawnenviro.com

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

ISO 9001, 14001 & 45001 CERTIFIED COMPANY

TEST REPORT

REF.NO: LAWN/DECCAN/2022 Date: 29-9-2022

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 : 20-9-2022

				PROTOCOL
1. Stack diameter (m)	:	4.20		--
2. Stack cross sectional area (sq m)	:	13.86		--
3. Flue gas temperature (^{0}C)	:	102		IS-11255 (Part-3); 2018
4. Exit velocity of flue gases (m/sec)	:	10.76		IS-11255 (Part-3); 2018
5. Flow rate (cum/hr)	:	5,36,881		IS-11255 (Part-3); 2018
		EMISSION DATA	LIMIT	
6. Suspended particulate matter Concentration (mg/Nm^3)	:	14.70	<30	IS-11255 (Part-1); 2019
7. Sulphur dioxide Concentration (mg/Nm^3)	:	1.10	<100	IS-11255 (Part-2); 2019
8. Oxides of nitrogen Concentration (mg/Nm^3)	:	366	<800	IS-11255 (Part-7); 2017

AUTHORISED SIGNATORY

STACK MONITORING KIT : MODEL NO: APM-160/Sl. No. 138-DTK-2020, Calibrated On 31-12-2021, Due On 30-12-2022
M/s. LATA ENVIROTECH SERVICES.

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

ISO 9001, 14001 & 45001 CERTIFIED COMPANY

TEST REPORT

REF.NO: LAWN/DECCAN/2022 Date: 29-9-2022

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	:	Coal Mill - II	Cooler ESP - II		PROTOCOL
1. Date of sampling	:	21-9-2022	21-9-2022		--
2. Stack diameter (m)	:	1.60	4.0		--
3. Stack cross sectional area (sq m)	:	2.01	12.57		--
4. Flue gas temperature (^{0}C)	:	74	120		IS-11255 (Part-3); 2018
5. Exit velocity of flue gases (m/sec)	:	12.22	9.86		IS-11255 (Part-3); 2018
6. Flow rate (cum/hr)	:	88,424	4,46,185		IS-11255 (Part-3); 2018
EMISSION DATA				**TSPCB Prescribed LIMIT**	
7. Suspended particulate matter Concentration (mg/Nm^3)	:	18.70	21.90	<30	IS-11255 (Part-1); 2019

AUTHORISED SIGNATORY

STACK MONITORING KIT : MODEL NO: APM-160/Sl. No. 138-DTK-2020. Calibrated On 31-12-2021. Due On 30-12-2022
M/s. LATA ENVIROTECH SERVICES.

Head Office : "LAWN HOUSE", #184-C, Vengalrao Nagar, Hyderabad - 500 038. (T.S.) INDIA. Tel : 040-66730925, 66730926, Fax : 040-66730926
Branch Office : D.No.31-58-103, MIG-71, Phase-7, Road No.4/4, Dwarakapuri Colony, Kurmanapallem, Vishakhapatnam-530046.Tel : 9701505182
E-mail : lawnenviro@yahoo.co.in, Website : www.lawnenviro.com

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

ISO 9001, 14001 & 45001 CERTIFIED COMPANY

TEST REPORT

REF.NO: LAWN/DECCAN/2022 Date: 29-9-2022

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 : 20-9-2022

			PROTOCOL
1. Stack diameter (m)	: 1.0		--
2. Stack cross sectional area (sq m)	: 0.785		--
3. Flue gas temperature (^{o}C)	: 78		IS-11255 (Part-3); 2018
4. Exit velocity of flue gases (m/sec)	: 10.62		IS-11255 (Part-3); 2018
5. Flow rate (cum/hr)	: 30,012		IS-11255 (Part-3); 2018
	EMISSION DATA	**LIMIT**	
6. Suspended particulate matter Concentration (mg/N m^3)	: 15.90	<30	IS-11255 (Part-1); 2019

AUTHORISED SIGNATORY

STACK MONITORING KIT : MODEL NO: APM-160/Sl. No. 138-DTK-2020, Calibrated On 31-12-2021, Due On 30-12-2022
M/s. LATA ENVIROTECH SERVICES.,

Head Office : "LAWN HOUSE", #184-C, Vengalrao Nagar, Hyderabad - 500 038. (T.S.) INDIA. Tel : 040-66730925, 66730926, Fax : 040-66730926
Branch Office : D.No.31-58-103, MIG-71, Phase-7, Road No.4/4, Dwarakapuri Colony, Kurmanapallem, Vishakhapatnam-530046.Tel : 9701505182
E-mail : lawnenviro@yahoo.co.in, Website : www.lawnenviro.com

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/2022

Date: 29-9-2022

WASTE WATER ANALYSIS

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

Date of Collection : 21-9-2022
Date of Analysis : 22-9-2022
PROTOCOL : A. P. H. A. 23rd Edition

		STP Inlet	STP Outlet	LIMITS
1. pH	:	7.35	7.71	5.5-8.5
2. Total Dissolved Solids	:	1,269	936	<2,100
3. Total Suspended Solids	:	246	24	<100
4. Chemical Oxygen Demand	:	268	49	<250
5. Bio Chemical Oxygen Demand (3 days at 27 ^{0}C)	:	134	09	<100
6. Chlorides as Cl	:	157	92	<600
7. Sulphates as So_4	:	86	27	<1,000
8. Oil & Grease	:	3.30	<1.0	<10

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

AUTHORISED SIGNATORY

Head Office : "LAWN HOUSE", #184-C, Vengalrao Nagar, Hyderabad - 500 038. (T.S.) INDIA. Tel : 040-66730925, 66730926, Fax : 040-66730926
Branch Office : D.No.31-58-103, MIG-71, Phase-7, Road No.4/4, Dwarakapuri Colony, Kurmanapallem, Vishakhapatnam-530046.Tel : 9701505182
E-mail : lawnenviro@yahoo.co.in, Website : www.lawnenviro.com

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

ISO 9001, 14001 & 45001 CERTIFIED COMPANY

TEST REPORT

REF.NO: LAWN/DECCAN/2022 Date: 29-9-2022

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 : 21-9-2022
Date of Analysis : 22-9-2022
PROTOCOL : A.P.H.A. 23rd Edition

		*I	*II	Limits As per GSR 422E
1. pH	:	7.41	7.86	6.50-8.50
2. Total dissolved solids	:	1,358	1,175	2100
3. Total Suspended solids (at 103-105 ^{0}C)	:	36	29	100
4. Chemical oxygen demand	:	72	56	250
5. Biochemical oxygen demand (3 days at 27 ^{0}C)	:	17	12	30
6. Chlorides as Cl	:	246	171	600
7. Sulphates as SO_4	:	76	42	1000
8. Oil & Grease	:	0.66	0.13	10
9. Dissolved Oxygen	:	1.70	1.50	NS
10. Free available chlorine as Cl_2	:	Nil	Nil	0.50
11. Copper as Cu	:	0.11	0.10	1.0
12. Iron as Fe	:	0.28	0.14	1.0
13. Phosphate as P	:	0.20	0.08	5.0
14. Zinc as Zn	:	0.14	0.07	1.0
15. Chromium as Cr+6	:	0.09	0.03	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.

AUTHORISED SIGNATORY

Head Office : "LAWN HOUSE", #184-C, Vengalrao Nagar, Hyderabad - 500 038. (T.S.) INDIA. Tel : 040-66730925, 66730926, Fax : 040-66730926
Branch Office : D.No.31-58-103, MIG-71, Phase-7, Road No.4/4, Dwarakapuri Colony, Kurmanapallem, Vishakhapatnam-530046.Tel : 9701505182
E-mail : lawnenviro@yahoo.co.in, Website : www.lawnenviro.com

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

ISO 9001, 14001 & 45001 CERTIFIED COMPANY

TEST REPORT

REF.NO: LAWN/DECCAN/2022

Date: 29-9-2022

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 : 21-9-2022
Date of Analysis : 22-9-2022
PROTOCOL : A. P. H. A. 23rd 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)		642	NS	NS
3. Turbidity (NTU)		0.90	01 max	05 max
4. Total dissolved solids		360	500 max	2000 max
5. Total hardness	as $CaCO_3$	204	200 max	600 max
6. Calcium	as Ca	55	75 max	200 max
7. Magnesium	as Mg	16.05	30 max	100 max
8. Sodium	as Na	49.66	NS	NS
9. Potassium	as K	3.68	NS	NS
10. Chloride	as Cl	55.46	250 max	1000 max
11. Sulphate	as SO_4	35.77	200 max	400 max
12. Nitrates	as NO_3	3.99	45 max	No relaxation
13. Methyl orange alkalinity	as $CaCO_3$	197	NS	NS
14. Phenolphthalein alkalinity	as $CaCO_3$	Nil	NS	NS
15. Total Alkalinity	as $CaCO_3$	197	200 max	600 max
16. Iron	as Fe	0.26	0.3 max	No relaxation
17. Fluorides	as F	0.74	1.0 max	1.5 max
18. Lead	as Pb	0.007	0.01	No relaxation
19. Copper	as Cu	0.009	0.05	1.50

BACTERIOLOGICAL ANALYSIS

1. Total Plate Count/ml	254 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

AUTHORISED SIGNATORY

Head Office : "LAWN HOUSE", #184-C, Vengalrao Nagar, Hyderabad - 500 038. (T.S.) INDIA. Tel : 040-66730925, 66730926, Fax : 040-66730926
Branch Office : D.No.31-58-103, MIG-71, Phase-7, Road No.4/4, Dwarakapuri Colony, Kurmanapallem, Vishakhapatnam-530046.Tel : 9701505182
E-mail : lawnenviro@yahoo.co.in, Website : www.lawnenviro.com

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

ISO 9001, 14001 & 45001 CERTIFIED COMPANY

TEST REPORT

REF.NO: LAWN/DECCAN/2022

Date: 29-9-2022

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 : 21-9-2022
Date of Analysis : 22-9-2022
PROTOCOL : A. P. H. A. 23rd 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)		: 111	--	--
3. Turbidity (NTU)		: Nil	01 max	05 max
4. Total dissolved solids		: 62	500 max	2000 max
5. Total hardness	as $CaCO_3$	: 11.24	200 max	600 max
6. Calcium	as Ca	: 2.43	75 max	200 max
7. Magnesium	as Mg	: 1.17	30 max	100 max
8. Sodium	as Na	: 20	--	--
9. Potassium	as K	: 0.10	--	--
10. Chloride	as Cl	: 11.68	250 max	1000 max
11. Sulphate	as SO_4	: 3.67	200 max	400 max
12. Nitrates	as NO_3	: 1.25	45 max	No relaxation
13. Methyl orange alkalinity	as $CaCO_3$	: 29	--	--
14. Phenolphthalein alkalinity	as $CaCO_3$	: Nil	--	--
15. Total Alkalinity	as $CaCO_3$	: 29	200 max	600 max
16. Iron	as Fe	: 0.05	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.

AUTHORISED SIGNATORY

Head Office : "LAWN HOUSE", #184-C, Vengalrao Nagar, Hyderabad - 500 038. (T.S.) INDIA. Tel : 040-66730925, 66730926, Fax : 040-66730926
Branch Office : D.No.31-58-103, MIG-71, Phase-7, Road No.4/4, Dwarakapuri Colony, Kurmanapallem, Vishakhapatnam-530046.Tel : 9701505182
E-mail : lawnenviro@yahoo.co.in, Website : www.lawnenviro.com

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

ISO 9001, 14001 & 45001 CERTIFIED COMPANY

TEST REPORT

REF.NO: LAWN/DECCAN/2022 Date: 29-9-2022

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)	:	64	59
2. Near Guest House	:	58	53
3. Near Colony	:	61	56
4. Near Temple	:	57	52
5. Near Mahankaligudem (Village)	:	62	57
6. Near Janpahad Durga (Village)	:	65	60
7. Near Sunyapahad (Village)	:	63	58

Note:
1. Noise levels are monitored on 21-9-2022.
2. Instrument make - Lutron SL – 4001/G-49271, Calibrated on 23-02-2022, Due on 22-02-2023.
3. Day time is reckoned in between 6.0 am and 10.0 pm; Limit <75.0 dB (A).
4. Night time is reckoned in between 10.0 pm and 6.0 am; Limit <70.0 dB (A).

AUTHORISED SIGNATORY

Head Office : "LAWN HOUSE", #184-C, Vengalrao Nagar, Hyderabad - 500 038. (T.S.) INDIA. Tel : 040-66730925, 66730926, Fax : 040-66730926
Branch Office : D.No.31-58-103, MIG-71, Phase-7, Road No.4/4, Dwarakapuri Colony, Kurmanapalem, Vishakhapatnam-530046.Tel : 9701505182
E-mail : lawnenviro@yahoo.co.in, Website : www.lawnenviro.com

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

ISO 9001, 14001 & 45001 CERTIFIED COMPANY

TEST REPORT

REF.NO: LAWN/DECCAN/2022 Date: 29-9-2022

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	:	83	78
2. Near Coal Mill	:	79	74
3. Near Cement Mill	:	77	72
4. Near WHR	:	85	80
5. Near Crusher	:	81	76
6. Near Slag Mill	:	78	73
7. Near Stores	:	62	57
8. Near Commercial Office	:	65	60

Note: *I 1. Noise levels are monitored on 21-9-2022.

2. Instrument make - Lutron SL – 4001/G-49271, Calibrated On 23-02-2022, Due On 22-02-2023.

*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).

AUTHORISED SIGNATORY

Head Office : "LAWN HOUSE", #184-C, Vengalrao Nagar, Hyderabad - 500 038. (T.S.) INDIA. Tel : 040-66730925, 66730926, Fax : 040-66730926

Branch Office : D.No.31-58-103, MIG-71, Phase-7, Road No.4/4, Dwarakapuri Colony, Kurmanapallem, Vishakhapatnam-530046.Tel : 9701505182

E-mail : lawnenviro@yahoo.co.in, Website : www.lawnenviro.com