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GLOBAL ENVIRO LABS

Recognised by MoEF, Gov, Vide Gazette No. : S.O.1190(E) (Valid upto 30-04-2019)

2-2-1075/14/A/1, 1st Floor, Tilaknagar 'X' Road, Bagh Amberpet,
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E-mail : globalelabs@gmail.com, globalelabs@rediffmail.com

Accredited by :



REF.NO: GEL/ACL/007/2016

Date: 23-04-2016

To
The Vice president
M/s. ANJANI PORTLAND CEMENT LTD.
(A Subsidiary of Chettinad Cement Corporation Limited)
Mellacheruvu (M), Kodada,
Nalgonda (Dist)
Ph. No: 08683 216079/ 230168

Sub: - Submission of Environmental Monitoring Reports - Reg.

Dear Sir,

This is with reference to the above-cited subject; please find enclosed herewith 2 copies of Ambient Air Quality Monitoring, Stack Emissions Monitoring, Noise Levels Monitoring and Wastewater Analysis reports of your esteemed organization for the month of **April - 2016**. Hope this will serve your purpose. If you need further information, do not hesitate to contact us.

Thanking you and assuring you of our best services at all times.

Yours faithfully,
for **GLOBAL ENVIRO LABS**

M. Kavitha

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Accredited by :



REF.NO: GEL/ACL/007/AAQ/2016-001

Date: 23-04-2016

AMBIENT AIR QUALITY DATA

Name of the Industry : **M/s. ANJANI PORTLAND CEMENT LTD.**
(A Subsidiary of Chettinad Cement Corporation Limited)
Address : Chintalapalem (V), Mellacheruvu (M),
Nalgonda (Dist) – 508 246

Sl.No.	Location	Date	Duration of Sampling	PM ₁₀ (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)	PM _{2.5} (µg/m ³)
1.	Near Security Gate	13-04-2016	24 hr.	54	08	12	33
2.	Near Crusher	13-04-2016	24 hr.	59	06	10	37
3.	Near Kiln Stack Area	13-04-2016	24 hr.	61	07	15	34
4.	T.S.P.C.B. Limits			100	80	80	60

Note: All the values are within the limits prescribed by NAAQS.

All the parameters monitored and analyzed as per the MoEF notification Vide G.S.R. No.826 (E) Dt: 18/11/2009

Fine Particulate Sampler Model APM 550 (Sl. No. 448-DTH-2010), Next Calibration due on 24/07/2016

Fine Particulate Sampler Model APM 550 (Sl. No. 449-DTH-2010), Next Calibration due on 24/07/2016

Fine Particulate Sampler Model APM 550 (Sl. No. 288-DTE-2010), Next Calibration due on 24/07/2016

Respirable Dust Sampler Model RDS 9000 (Sl. No. 061254), Next Calibration due on 08/04/2017

Respirable Dust Sampler Model RDS 9000 (Sl. No. 070703), Next Calibration due on 08/04/2017

Respirable Dust Sampler Model RDS 9000 (Sl. No. 070702), Next Calibration due on 08/04/2017

PM₁₀ : Particulate Matter (size less than 10µg/m³)

SO₂ : Sulphur Dioxide

PM_{2.5} : Particulate Matter (size less than 2.5µg/m³)

NO_x : Oxides of Nitrogen

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Accredited by :



REF.NO: GEL/ACL/007/STM/2016-002

Date: 23-04-2016

STACK MONITORING DATA

Name of the Industry : **M/s. Anjani Portland Cement Ltd.**
(A Subsidiary of Chettinad Cement Corporation Limited)
Address : Chintalapalem (V), Mellacheruvu (M),
Nalgonda (Dist) – 508 246

Sample Particulars	Stack No.	I	II	III	IV
Date of sampling	: 13-04-2016				
Time of monitoring	:	09.00 a.m.	10.40 a.m.	12.15 p.m.	02.30 p.m.
1. Stack diameter (m)	: 2.60	0.60	0.7	1.15	
2. Stack cross sectional area (sq m)	: 5.31	0.283	0.385	1.038	
3. Flue gas temperature (°C)	: 216	75	79	227	
4. Exit velocity of flue gases (m/sec)	: 9.58	12.54	12.46	13.51	
5. Flow rate (m ³ /hr)	: 1,83,131	12,776	17,269	50,484	

EMISSION DATA

6. Suspended particulate matter Concentration (mg/Nm ³)	: 15	22	28	30
7. T.S.P.C.B Limits (SPM)	50	50	50	50

Note: All the values are within the limits prescribed by TSPCB.

Stack Kit Model/SL/No:SEA-90/000908, Next Calibration on: 08-04-2017

Note: **Stack No. I : Attached to Kiln Stack – Line – 1**

Stack No. II : Attached to Coal Mill – Line – 1

Stack No. III : Attached to Cement Mill – Line – 1

Stack No. IV : Attached to Cooler Stack – Line – 1

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REF.NO: GEL/ACL/007/STM/2016-003

Date: 23-04-2016

STACK MONITORING DATA

Name of the Industry : **M/s. Anjani Portland Cement Ltd.**
(A Subsidiary of Chettinad Cement Corporation Limited)
Address : Chintalapalem (V), Mellacheruvu (M),
Nalgonda (Dist) – 508 246

Sample Particulars	Stack No.	V	VI	VII	VIII
Date of sampling	:	13-04-2016	14-04-2016	14-04-2016	14-04-2016
Time of monitoring	:	04.30 p.m.	09.15 a.m.	11.00 a.m.	12.25 p.m.
1. Stack diameter (m)	:	0.30	0.85	0.42	0.32
2. Stack cross sectional area (sq m)	:	0.071	0.567	0.138	0.08
3. Flue gas temperature (°C)	:	43	69	42	46
4. Exit velocity of flue gases (m/sec)	:	12.43	11.80	2.95	7.42
5. Flow rate (m ³ /hr)	:	3,177	24,086	1,465	2,136

EMISSION DATA

6. Suspended particulate matter Concentration (mg/Nm ³)	:	13	27	16	23
7. T.S.P.C.B Limits (SPM)		50	50	50	50

Note: All the values are within the limits prescribed by TSPCB.

Stack Kit Model/SL/No:SEA-90/000908, Next Calibration on: 08-04-2017

Note: **Stack No. V : Attached to Crusher Stack – Line – 1**

Stack No. VI : Attached to Raw Mill Stack – Line – 1

Stack No. VII : Attached to Blending Silo Stack – Line – 1

Stack No. VIII : Attached to Packing Plant Stack – Line - 1

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Accredited by :



REF.NO: GEL/ACL/007/STM/2016-004

Date: 23-04-2016

STACK MONITORING DATA

Name of the Industry : **M/s. Anjani Portland Cement Ltd.**
(A Subsidiary of Chettinad Cement Corporation Limited)
Address : Chintalapalem (V), Mellacheruvu (M),
Nalgonda (Dist) – 508 246

Sample Particulars	Stack No.	IX	X	XI	XII
Date of sampling	:	14-04-2016	14-04-2016	14-04-2016	15-04-2016
Time of monitoring	:	02.00 p.m.	03.45 p.m.	05.30 p.m.	09.00 a.m.
1. Stack diameter (m)	:	1.15	3.45	0.90	1.40
2. Stack cross sectional area (sq m)	:	1.038	9.34	0.635	1.53
3. Flue gas temperature (°C)	:	71	221	45	117
4. Exit velocity of flue gases (m/sec)	:	12.28	7.40	11.23	9.23
5. Flow rate (m ³ /hr)	:	45,887	2,48,817	25,672	50,839

EMISSION DATA

6. Suspended particulate matter Concentration (mg/Nm ³)	:	21	29	34	25
7. T.S.P.C.B Limits (SPM)		50	50	50	50

Note: All the values are within the limits prescribed by TSPCB.

Stack Kit Model/SL/No:SEA-90/000908, Next Calibration on: 08-04-2017

Note: **Stack No. IX : Attached to Cement Mill – II – Line – 1**

Stack No. X : Attached to Raw Mill & Kiln - Line - II

Stack No. XI : Attached to L.S. Crusher – Line - II

Stack No. XII : Attached to Coal Mill - Line - II

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Accredited by :



REF.NO: GEL/ACL/007/STM/2016-005

Date: 23-04-2016

STACK MONITORING DATA

Name of the Industry : **M/s. Anjani Portland Cement Ltd.**
(A Subsidiary of Chettinad Cement Corporation Limited)
Address : Chintalapalem (V), Mellacheruvu (M),
Nalgonda (Dist) – 508 246

Sample Particulars	Stack No.	XIII	XIV	XV
Date of sampling	:	15-04-2016	15-04-2016	15-04-2016
Time of monitoring	:	10.50 a.m	12.20 p.m.	02.00 p.m.

1. Stack diameter (m)	:	2.66	1.20	0.40
2. Stack cross sectional area (sq m)	:	5.56	1.13	0.125
3. Flue gas temperature (°C)	:	221	115	42
4. Exit velocity of flue gases (m/sec)	:	9.35	8.32	3.72
5. Flow rate (m ³ /hr)	:	1,87,149	33,845	1,674

EMISSION DATA

6. Suspended particulate matter Concentration (mg/Nm ³)	:	44	31	21
7. T.S.P.C.B Limits (SPM)		50	50	50

Note: All the values are within the limits prescribed by TSPCB.

Stack Kit Model/SL/No:SEA-90/000908, Next Calibration on: 08-04-2017

Note: **Stack No. XIII : Attached to Cooler Vent Stack – Line - II**

Stack No. XIV : Attached to Cement Mill Stack – Line - II

Stack No. XV : Attached to Packing Plant Stack – Line - II

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REF.NO: GEL/ACL/007/NQD/2016-006

Date: 23-04-2016

AMBIENT NOISE QUALITY DATA

Name of the Industry : **M/s. Anjani Portland Cement Ltd.**
(A Subsidiary of Chettinad Cement Corporation Limited)
Address : Chintalapalem (V), Mellacheruvu (M),
Nalgonda (Dist) – 508 246

Date of Monitoring: 15-04-2016

Location	Noise Levels in dB (A)	
	Day Time (1)	Night Time (2)
1. Near Security	54	49
2. Near Cement Mill	65	61
3. Near Kiln	73	67
4. Near D.G Set Area	71	65
5. Near Canteen	56	52
6. Near Compressor House	67	64
7. Near Office	61	53
8. Near Limestone Crusher	69	65
9. Near Raw Mill	71	67
10. Near Guest House	58	50

Note: 1. Day Time is reckoned in between 6 a.m and 10 p.m
2. Night time is reckoned in between 10 p.m and 6 a.m
3. TSPCB Limits for Noise Level at Daytime is 75 dB (A) and Night time is 70 dB (A)
Noise Level Meter Model SL-4010 (Sl. No. I.72964), Next Calibration on: 11-10-2016

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REF.NO: GEL/ACL/007/WWA/2016-007

Date: 23-04-2016

WASTEWATER ANALYSIS

Name of the Industry : **M/s. Anjani Portland Cement Ltd.**
(A Subsidiary of Chettinad Cement Corporation Limited)
Address : Chintalapalem (V), Mellacheruvu (M),
Nalgonda (Dist) – 508 246

Date of collection : 15-04-2016
Date of analysis : 16-04-2016
Sample Particulars : **Domestic Effluent** **Limits** **Method Used**

1. pH	: 7.28	5.5 – 9.0	IS: 2490 - 1982
2. Total Dissolved Solids	: 692	2100	„
3. Total Suspended Solids	: 34	200	„
4. Chemical Oxygen Demand	: 118	250	„
5. Biological Oxygen Demand (3 days at 27°C)	: 27	100	„
6. Oil & Grease	: 0.20	10	“

Note: All the values except pH are expressed in mg/liter
All the values are within the limits prescribed by TSPCB

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Accredited by :



REF.NO: GEL/ACL/007/STM/2016-008

Date: 23-04-2016

STACK MONITORING DATA

Name of the Industry : **M/s. Anjani Portland Cement Ltd.**
(A Subsidiary of Chettinad Cement Corporation Limited)
Address : Chintalapalem (V), Mellacheruvu (M),
Nalgonda (Dist) – 508 246

Sample Particulars : Stack attached to the 320 KVA D.G Set
Date of sampling : 15-04-2016
Time of monitoring : 03.15 a.m.

1. Stack diameter (m)	:	0.15
2. Stack cross sectional area (sq m)	:	0.017
3. Flue gas temperature (°C)	:	134
4. Exit velocity of flue gases (m/sec)	:	13.36
5. Flow rate (cum/hr)	:	817

EMISSION DATA	Limits	Method Used
6. Suspended particulate matter Concentration (mg/N m ³)	49	115 IS: 11255 (Part-I), 1985
7. Sulphur dioxide Concentration (mg/N m ³)	121	--- IS: 11255 (Part-II), 1985
8. Oxides of nitrogen Concentration (mg/N m ³)	143	--- IS: 5182 (Part-VI), 1975

Note: All the values are within the limits prescribed by TSPCB.
Stack Kit Model/SL/No:SEA-90/000908, Next Calibration on: 08-04-2017

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Accredited by :



REF.NO: GEL/ACL/007/STM/2016-009

Date: 23-04-2016

STACK MONITORING DATA

Name of the Industry : **M/s. Anjani Portland Cement Ltd.**
(A Subsidiary of Chettinad Cement Corporation Limited)
Address : Chintalapalem (V), Mellacheruvu (M),
Nalgonda (Dist) – 508 246

Sample Particulars : Stack attached to the 1250 KVA D.G Set
Date of sampling : 15-04-2016
Time of monitoring : 04.20 p.m.

1. Stack diameter (m) : 0.315
2. Stack cross sectional area (sq m) : 0.077
3. Flue gas temperature (°C) : 225
4. Exit velocity of flue gases (m/sec) : 11.48
5. Flow rate (cum/hr) : 3,182

EMISSION DATA		Limits	Method Used
6. Suspended particulate matter Concentration (mg/N m ³)	: 62	115	IS: 11255 (Part-I), 1985
7. Sulphur dioxide Concentration (mg/N m ³)	: 159	---	IS: 11255 (Part-II), 1985
8. Oxides of nitrogen Concentration (mg/N m ³)	: 245	---	IS: 5182 (Part-VI), 1975

Note: All the values are within the limits prescribed by TSPCB.
Stack Kit Model/SL/No:SEA-90/000908, Next Calibration on: 08-04-2017

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REF.NO: GEL/ACL/007/STM/2016-010

Date: 23-04-2016

STACK MONITORING DATA

Name of the Industry : **M/s. Anjani Portland Cement Ltd.**
(A Subsidiary of Chettinad Cement Corporation Limited)
Address : Chintalapalem (V), Mellacheruvu (M),
Nalgonda (Dist) – 508 246

Sample Particulars : Stack attached to CSP Dust Collector – Line-II
Date of sampling : 15-04-2016
Time of monitoring : 05.45 p.m.

1. Stack diameter (m) : 0.60
2. Stack cross sectional area (sq m) : 0.283
3. Flue gas temperature (°C) : 57
4. Exit velocity of flue gases (m/sec) : 11.96
5. Flow rate (cum/hr) : 12,185

EMISSION DATA	Limits	Method Used
6. Suspended particulate matter Concentration (mg/N m ³) : 19	50	IS: 11255 (Part-I), 1985

Note: All the values are within the limits prescribed by TSPCB.
Stack Kit Model/SL/No:SEA-90/000908, Next Calibration on: 08-04-2017

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