



ISO 9001:2015  
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# GLOBAL ENVIRO LABS

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

# 2-2-1075/14/A/1, 1<sup>st</sup> Floor, Tilaknagar 'X' Road, Bagh Amberpet,  
Hyderabad - 500 013. Ph : 65582886, 27407969, Fax : 27407969,  
E-mail : globalelabs@gmail.com, globalelabs@rediffmail.com

Accredited by :



REF.NO: GEL/ACL/007/2016

Date: 05-12-2016

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 **November - 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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REF.NO: GEL/ACL/007/AAQ/2016-071

Date: 05-12-2016

## 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 <sub>10</sub> (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>x</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )
1.	Near Security Gate	27-11-2016	24 hr.	51	05	11	27
2.	Near Crusher	27-11-2016	24 hr.	56	08	13	32
3.	Near Kiln Stack Area	27-11-2016	24 hr.	60	10	07	34
<b>4.</b>	<b>T.S.P.C.B. Limits</b>			<b>100</b>	<b>80</b>	<b>80</b>	<b>60</b>

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 24/07/2017  
Fine Particulate Sampler Model APM 550 (Sl. No. 449-DTH-2010), Next Calibration due on 24/07/2017  
Fine Particulate Sampler Model APM 550 (Sl. No. 288-DTE-2010), Next Calibration due on 24/07/2017  
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

PM<sub>10</sub> : Particulate Matter (size less than 10µg/m<sup>3</sup>)

SO<sub>2</sub> : Sulphur Dioxide

PM<sub>2.5</sub> : Particulate Matter (size less than 2.5µg/m<sup>3</sup>)

NO<sub>x</sub> : Oxides of Nitrogen

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Accredited by :



REF.NO: GEL/ACL/007/STM/2016-072

Date: 05-12-2016

## 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	: 27-11-2016				
Time of monitoring	:	09.15 a.m.	10.45 a.m.	12.30 p.m.	02.15 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)	: 214	78	79	228
4. Exit velocity of flue gases (m/sec)	: 9.58	12.63	12.36	13.56
5. Flow rate (m <sup>3</sup> /hr)	: 1,83,131	12867	17,131	50,671

## EMISSION DATA

6. Suspended particulate matter Concentration (mg/Nm <sup>3</sup> )	: 14	18	25	27
7. Sulphur dioxide Concentration (mg/Nm <sup>3</sup> )	: 28	--	--	--
8. Oxides of nitrogen Concentration (mg/Nm <sup>3</sup> )	: 396	--	--	--

<b>7. T.S.P.C.B Limits (SPM)</b>	<b>30</b>	<b>30</b>	<b>30</b>	<b>30</b>
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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-1 – Line – 1  
**Stack No. IV** : Attached to Cooler Stack – Line – 1

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REF.NO: GEL/ACL/007/STM/2016-073

Date: 05-12-2016

## 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		27-11-2016	27-11-2016	28-11-2016	28-11-2016
Time of monitoring		04.00 p.m.	05.30 p.m.	09.45 a.m.	11.40 a.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)		42	68	44	39
4. Exit velocity of flue gases (m/sec)		12.29	11.86	2.91	7.36
5. Flow rate (m <sup>3</sup> /hr)		25,086	24,209	1,446	2,120

## EMISSION DATA

6. Suspended particulate matter Concentration (mg/Nm <sup>3</sup> )	: 16	19	22	26
7. T.S.P.C.B Limits (SPM)	<b>30</b>	<b>30</b>	<b>30</b>	<b>30</b>

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/2016-074

Date: 05-12-2016

## 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		28-11-2016	28-11-2016	28-11-2016	28-11-2016
Time of monitoring		12.45 p.m.	02.30 p.m.	03.45 p.m.	05.30 p.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)		84	205	23	98
4. Exit velocity of flue gases (m/sec)		12.36	7.27	11.19	9.21
5. Flow rate (m <sup>3</sup> /hr)		46,187	2,44,446	25,580	50,729

## EMISSION DATA

6. Suspended particulate matter Concentration (mg/Nm <sup>3</sup> )	: 23	19	21	26
7. Sulphur dioxide Concentration (mg/Nm <sup>3</sup> )	: --	31	--	--
8. Oxides of nitrogen Concentration (mg/Nm <sup>3</sup> )	: --	428	--	--
<b>9. T.S.P.C.B Limits (SPM)</b>	<b>30</b>	<b>30</b>	<b>30</b>	<b>30</b>

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/2016-075

Date: 05-12-2016

## 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		29-11-2016	29-11-2016	29-11-2016
Time of monitoring		09.30 a.m	11.00 a.m.	12.20 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)	: 232	110	45
4. Exit velocity of flue gases (m/sec)	: 9.46	8.36	3.72
5. Flow rate (m <sup>3</sup> /hr)	: 1,89,351	34,008	1,674

## EMISSION DATA

6. Suspended particulate matter Concentration (mg/Nm <sup>3</sup> )	: 29	23	21
<b>7. T.S.P.C.B Limits (SPM)</b>	<b>30</b>	<b>30</b>	<b>30</b>

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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Accredited by :



REF.NO: GEL/ACL/007/NQD/2016-076

Date: 05-12-2016

## 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: 29-11-2016

Location	Noise Levels in dB (A)	
	Day Time (1)	Night Time (2)
1. Near Security	53	49
2. Near Cement Mill	61	54
3. Near Kiln	68	63
4. Near D.G Set Area	66	55
5. Near Canteen	48	43
6. Near Compressor House	69	58
7. Near Office	54	51
8. Near Limestone Crusher	63	56
9. Near Raw Mill	71	64
10. Near Guest House	52	47

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: 11-10-2017

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Accredited by :



REF.NO: GEL/ACL/007/WWA/2016-077

Date: 05-12-2016

## 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 : 29-11-2016  
Date of analysis : 30-11-2016  
Sample Particulars : **Domestic Effluent**      **Limits**      **Method Used**

1. pH	: 7.21	5.5 – 9.0	IS: 2490 - 1982
2. Total Dissolved Solids	: 659	2100	„
3. Total Suspended Solids	: 34	200	„
4. Chemical Oxygen Demand	: 110	250	„
5. Biological Oxygen Demand (3 days at 27°C)	: 22	100	„
6. Oil & Grease	: 0.18	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/2016-078

Date:05-12-2016

## 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 : 29-11-2016  
Time of monitoring : 02.30 p.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) : 818

EMISSION DATA	Limits	Method Used
6. Suspended particulate matter Concentration (mg/N m <sup>3</sup> )	43	<b>115</b> IS: 11255 (Part-I), 1985
7. Sulphur dioxide Concentration (mg/N m <sup>3</sup> )	118	--- IS: 11255 (Part-II), 1985
8. Oxides of nitrogen Concentration (mg/N m <sup>3</sup> )	146	--- 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/2016-079

Date: 05-12-2016

## 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 : 29-11-2016  
Time of monitoring : 03.45 p.m.

1. Stack diameter (m) : 0.315  
2. Stack cross sectional area (sq m) : 0.077  
3. Flue gas temperature (°C) : 216  
4. Exit velocity of flue gases (m/sec) : 11.53  
5. Flow rate (cum/hr) : 3,196

EMISSION DATA	Limits	Method Used
6. Suspended particulate matter Concentration (mg/N m <sup>3</sup> )	56	115 IS: 11255 (Part-I), 1985
7. Sulphur dioxide Concentration (mg/N m <sup>3</sup> )	158	---
8. Oxides of nitrogen Concentration (mg/N m <sup>3</sup> )	224	---
		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/2016-080

Date: 05-12-2016

## 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 : 29-11-2016  
Time of monitoring : 04.45 p.m.

1. Stack diameter (m)	:	0.60
2. Stack cross sectional area (sq m)	:	0.283
3. Flue gas temperature (°C)	:	48
4. Exit velocity of flue gases (m/sec)	:	11.76
5. Flow rate (cum/hr)	:	11,981

EMISSION DATA	Limits	Method Used
6. Suspended particulate matter Concentration (mg/N m <sup>3</sup> )	30	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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