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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,
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: 24-09-2016

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 **September - 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/2016-051

Date: 24-09-2016

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	17-09-2016	24 hr.	48	06	11	27
2.	Near Crusher	17-09-2016	24 hr.	54	08	15	31
3.	Near Kiln Stack Area	17-09-2016	24 hr.	59	10	13	29
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 24/07/2017
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

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/2016-052

Date: 24-09-2016

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	: 17-09-2016				
Time of monitoring	:	09.00 a.m.	09.45 a.m.	10.30 a.m.	11.45 a.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)	: --	--	79	--	
4. Exit velocity of flue gases (m/sec)	: --	--	12.34	--	
5. Flow rate (m ³ /hr)	: --	--	17,103	--	

EMISSION DATA

6. Suspended particulate matter Concentration (mg/Nm ³)	: --	--	24	--
7. T.S.P.C.B Limits (SPM)	30	30	30	30

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 (Not in Operation)

Stack No. II : Attached to Coal Mill – Line – 1 (Not in Operation)

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

Stack No. IV : Attached to Cooler Stack – Line – 1 (Not in Operation)

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REF.NO: GEL/ACL/007/STM/2016-053

Date: 24-09-2016

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	:	17-09-2016	17-09-2016	17-09-2016	18-09-2016
Time of monitoring	:	02.15 p.m.	02.45 p.m.	03.30 p.m.	09.15 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)	:	--	--	43	41
4. Exit velocity of flue gases (m/sec)	:	--	--	2.88	7.36
5. Flow rate (m ³ /hr)	:	--	--	1,431	2,120

EMISSION DATA

6. Suspended particulate matter Concentration (mg/Nm ³)	:	--	--	26	28
7. T.S.P.C.B Limits (SPM)		30	30	30	30

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 (Not in Operation)**
Stack No. VI : Attached to Raw Mill Stack – Line – 1 (Not in Operation)
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/2016-054

Date: 24-09-2016

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	:	18-09-2016	18-09-2016	18-09-2016	18-09-2016
Time of monitoring	:	10.15 a.m.	11.45 a.m.	02.30 p.m.	04.15 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)	:	81	214	41	98
4. Exit velocity of flue gases (m/sec)	:	12.34	7.38	11.12	9.13
5. Flow rate (m ³ /hr)	:	46,112	2,48,145	25,420	50,288

EMISSION DATA

6. Suspended particulate matter Concentration (mg/Nm ³)	:	27	26	24	29
7. Sulphur dioxide Concentration (mg/Nm ³)	:	--	36	--	--
8. Oxides of nitrogen Concentration (mg/Nm ³)	:	--	445	--	--
9. T.S.P.C.B Limits (SPM)		30	30	30	30

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/2016-055

Date: 24-09-2016

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	:	19-09-2016	19-09-2016	19-09-2016
Time of monitoring	:	09.30 a.m	10.45 a.m.	12.00 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)	:	223	110	41
4. Exit velocity of flue gases (m/sec)	:	9.34	8.24	3.64
5. Flow rate (m ³ /hr)	:	1,86,949	33,520	1,638

EMISSION DATA

6. Suspended particulate matter Concentration (mg/Nm ³)	:	29	28	26
7. T.S.P.C.B Limits (SPM)		30	30	30

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/2016-056

Date: 24-09-2016

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: 19-09-2016

Location	Noise Levels in dB (A)	
	Day Time (1)	Night Time (2)
1. Near Security	52	49
2. Near Cement Mill	61	54
3. Near Kiln	70	66
4. Near D.G Set Area	69	58
5. Near Canteen	52	48
6. Near Compressor House	68	57
7. Near Office	56	52
8. Near Limestone Crusher	64	58
9. Near Raw Mill	69	61
10. Near Guest House	54	49

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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Accredited by :



REF.NO: GEL/ACL/007/WWA/2016-057

Date: 24-09-2016

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 : 19-09-2016
Date of analysis : 20-09-2016
Sample Particulars : **Domestic Effluent** **Limits** **Method Used**

1. pH	: 7.26	5.5 – 9.0	IS: 2490 - 1982
2. Total Dissolved Solids	: 624	2100	„
3. Total Suspended Solids	: 29	200	„
4. Chemical Oxygen Demand	: 98	250	„
5. Biological Oxygen Demand (3 days at 27°C)	: 20	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/2016-058

Date:24-09-2016

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 : 19-09-2016
Time of monitoring : 02.15 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 ³)	34	115 IS: 11255 (Part-I), 1985
7. Sulphur dioxide Concentration (mg/N m ³)	110	--- IS: 11255 (Part-II), 1985
8. Oxides of nitrogen Concentration (mg/N m ³)	126	--- 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/2016-059

Date: 24-09-2016

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 : 19-09-2016
Time of monitoring : 03.15 p.m.

1. Stack diameter (m) : 0.315
2. Stack cross sectional area (sq m) : 0.077
3. Flue gas temperature (°C) : 208
4. Exit velocity of flue gases (m/sec) : 11.41
5. Flow rate (cum/hr) : 3,163

EMISSION DATA	Limits	Method Used
6. Suspended particulate matter Concentration (mg/N m ³)	51	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)	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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REF.NO: GEL/ACL/007/STM/2016-060

Date: 24-09-2016

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 : 19-09-2016
Time of monitoring : 04.20 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) : 11.72
5. Flow rate (cum/hr) : 11,940

EMISSION DATA	Limits	Method Used
6. Suspended particulate matter Concentration (mg/N m ³) : 14	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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