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GLOBAL ENVIRO LABS

Recognised by MoEF, GoI, 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



REF.NO: GEL/ACL/007/AAQ/2015-100

Date: 18-12-2015

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 ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO _x ($\mu\text{g}/\text{m}^3$)	PM _{2.5} ($\mu\text{g}/\text{m}^3$)
1.	Near Security Gate	08-12-2015	24 hr.	47	06	11	28
2.	Near Crusher	08-12-2015	24 hr.	54	08	13	32
3.	Near Kiln Stack Area	08-12-2015	24 hr.	61	12	16	35
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 08/04/2016

Respirable Dust Sampler Model RDS 9000 (Sl. No. 070703), Next Calibration due on 08/04/2016

Respirable Dust Sampler Model RDS 9000 (Sl. No. 070702), Next Calibration due on 08/04/2016

PM₁₀ : Particulate Matter (size less than 10 $\mu\text{g}/\text{m}^3$)

PM_{2.5} : Particulate Matter (size less than 2.5 $\mu\text{g}/\text{m}^3$)

SO₂ : Sulphur Dioxide

NO_x : Oxides of Nitrogen

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REF.NO: GEL/ACL/007/STM/2015-101

Date: 18-12-2015

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	: 08-12-2015				
Time of monitoring	: 09.30 a.m.	09.45 a.m.	10.15 a.m.	12.00 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)	: --	--	74	--	
4. Exit velocity of flue gases (m/sec)	: --	--	12.43	--	
5. Flow rate (m ³ /hr)	: --	--	17,228	--	

EMISSION DATA

6. Suspended particulate matter Concentration (mg/Nm ³)	: --	--	27	--
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: 08-04-2016

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 – Line – 1

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

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REF.NO: GEL/ACL/007/STM/2015-102

Date: 18-12-2015

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	:	08-12-2015	08-12-2015	08-12-2015	08-12-2015
Time of monitoring	:	12.45 p.m.	01.15 p.m.	01.45 p.m.	02.30 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)	:	--	--	--	41
4. Exit velocity of flue gases (m/sec)	:	--	--	--	7.28
5. Flow rate (m ³ /hr)	:	--	--	--	2,097

EMISSION DATA

6. Suspended particulate matter Concentration (mg/Nm ³)	:	--	--	--	29
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: 08-04-2016

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 - (Not in Operation)

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

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REF.NO: GEL/ACL/007/STM/2015-103

Date: 18-12-2015

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	:	09-12-2015	09-12-2015	09-12-2015	09-12-2015
Time of monitoring	:	09.30 a.m.	11.00 a.m.	12.45 p.m.	02.30 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)	:	71	224	45	104
4. Exit velocity of flue gases (m/sec)	:	12.56	7.39	11.22	9.28
5. Flow rate (m ³ /hr)	:	46,934	2,48,481	25,648	51,114

EMISSION DATA

6. Suspended particulate matter Concentration (mg/Nm ³)	:	33	39	42	37
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: 08-04-2016

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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REF.NO: GEL/ACL/007/STM/2015-104

Date: 18-12-2015

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	:	09-12-2015	09-12-2015	10-12-2015
Time of monitoring	:	04.00 p.m	05.35 p.m.	09.00 a.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)	:	241	107	42
4. Exit velocity of flue gases (m/sec)	:	9.51	8.45	3.89
5. Flow rate (m ³ /hr)	:	1,90,352	34,375	1,751

EMISSION DATA

6. Suspended particulate matter Concentration (mg/Nm ³)	:	46	35	26
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7. T.S.P.C.B Limits (SPM)	50	50	50
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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: 08-04-2016

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/2015-105

Date: 18-12-2015

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:	10-12-2015		
Location	Noise Levels in dB (A)		
	Day Time	Night Time	
	(1)	(2)	
1. Near Security	:	59	53
2. Near Cement Mill	:	73	67
3. Near Kiln	:	74	69
4. Near D.G Set Area	:	70	65
5. Near Canteen	:	62	53
6. Near Compressor House	:	71	66
7. Near Office	:	62	54
8. Near Limestone Crusher	:	67	56
9. Near Raw Mill	:	68	64
10. Near Guest House	:	59	51

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/2015-106

Date: 18-12-2015

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	: 10-12-2015		
Date of analysis	: 11-12-2015		
Sample Particulars	: Domestic Effluent	Limits	Method Used
1. pH	: 7.36	5.5 – 9.0	IS: 2490 - 1982
2. Total Dissolved Solids	: 671	2100	„
3. Total Suspended Solids	: 30	200	„
4. Chemical Oxygen Demand	: 104	250	„
5. Biological Oxygen Demand (3 days at 27°C)	: 23	100	„
6. Oil & Grease	: 0.12	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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REF.NO: GEL/ACL/007/STM/2015-107

Date: 18-12-2015

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 : 10-12-2015
Time of monitoring : 11.30 a.m.

1. Stack diameter (m) : 0.15
2. Stack cross sectional area (sq m) : 0.017
3. Flue gas temperature (°C) : 135
4. Exit velocity of flue gases (m/sec) : 13.82
5. Flow rate (cum/hr) : 845

EMISSION DATA		Limits	Method Used
6. Suspended particulate matter	: 57	115	IS: 11255 (Part-I), 1985
Concentration (mg/N m ³)		---	
7. Sulphur dioxide	: 118	---	IS: 11255 (Part-II), 1985
Concentration (mg/N m ³)		---	
8. Oxides of nitrogen	: 142	---	IS: 5182 (Part-VI), 1975
Concentration (mg/N m ³)			

Note: All the values are within the limits prescribed by TSPCB.
Stack Kit Model/SL/No:SEA-90/000908, Next Calibration on: 08-04-2016

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REF.NO: GEL/ACL/007/STM/2015-108

Date: 18-12-2015

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 : 10-12-2015
Time of monitoring : 01.00 p.m.

1. Stack diameter (m) : 0.315
2. Stack cross sectional area (sq m) : 0.077
3. Flue gas temperature (°C) : 231
4. Exit velocity of flue gases (m/sec) : 11.28
5. Flow rate (cum/hr) : 3,126

EMISSION DATA		Limits	Method Used
6. Suspended particulate matter	: 64	115	IS: 11255 (Part-I), 1985
Concentration (mg/N m ³)		---	
7. Sulphur dioxide	: 203	---	IS: 11255 (Part-II), 1985
Concentration (mg/N m ³)		---	
8. Oxides of nitrogen	: 274	---	IS: 5182 (Part-VI), 1975
Concentration (mg/N m ³)			

Note: All the values are within the limits prescribed by TSPCB.
Stack Kit Model/SL/No:SEA-90/000908, Next Calibration on: 08-04-2016

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REF.NO: GEL/ACL/007/STM/2015-109

Date: 18-12-2015

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 : 10-12-2015
Time of monitoring : 03.30 p.m.

1. Stack diameter (m) : 0.60
2. Stack cross sectional area (sq m) : 0.283
3. Flue gas temperature (°C) : 61
4. Exit velocity of flue gases (m/sec) : 12.04
5. Flow rate (cum/hr) : 12,265

EMISSION DATA	Limits	Method Used
6. Suspended particulate matter Concentration (mg/N m ³)	39 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: 08-04-2016

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