

# Ambient Air Quality monitoring report-I



## PAPL

**PADMAJA AEROBIOLOGICALS PVT. LTD.**  
 Public Testing Laboratory  
 Recognised by Ministry of Environment Forest & Climate Change (MoEFCC):  
 Gazette Notification No. S.O.3744(E) Valid upto : 16.10.2024  
 ISO 9001 : 2015, OHSAS 18001:2007 Certified  
 CIN : U73100MH1995PTC092502  
 NABL Accreditation Certificate No. TC-5088 Valid upto 31.12.2020.

**AIR-F-002**

### TEST REPORT AMBIENT AIR QUALITY MONITORING

Report No.	PAPL/ A-57/06-20		Report Date	25/06/2020	
Work Order No.	6600010433 Dated 08/05/2020				
Name of Customer	M/s USV Private Ltd.				
Address	Plot No.N35,Anand Nagar, Ambernath (East) - 421501				
MoEF Certificate No.	From 23 May 2019		Valid up to	16/10/2024	
Type of sampling	AAQM	24 Hrs.	AAQM	24 Hrs.	AAQM
Instrument used	RDS	✓	FDS	✓	
	ID No.	AIR-I-028	ID No.	AIR-I-011	
	Calibration Date	04/09/2020	Calibration Date	05/09/2020	
Date of Sampling	18/06/2020		Sample Ref. No.	245/A-57/06-2020	
Location of sampling	Near Main Gate				
Sample Collected By	Padmaja Aerobiologicals Pvt. Ltd.				

#### POLLUTION PARAMETERS

Parameter	Result	Limit	Unit	Method
Particulate Matter (PM <sub>2.5</sub> )	35	60	µg/m <sup>3</sup>	Gravimetric method (CPCB guidelines 2012, NAAQS Volume -I)
Particulate Matter (PM <sub>10</sub> )	73	100	µg/m <sup>3</sup>	IS 5182(Part-23):2006,Reaffirmed-2012
Sulphur Dioxide (SO <sub>2</sub> )	20.4	80	µg/m <sup>3</sup>	IS 5182(Part -02):2001,Reaffirmed-2012
Nitrogen Dioxide(NO <sub>2</sub> )	22.1	80	µg/m <sup>3</sup>	IS 5182(Part-06):2006
Ammonia(NH <sub>3</sub> )	<10.0	400	µg/m <sup>3</sup>	Indophenol Blue method 4.1 (CPCB guidelines 2012,NAAQS Volume-I)
*Carbon monoxide (CO)	1.0	04	mg/m <sup>3</sup>	IS 5182(Part-10):1999,Reaffirmed -2009
*Benzene (C <sub>6</sub> H <sub>6</sub> )	<0.05	05	µg/m <sup>3</sup>	IS 5182(Part-11):2006
Ozone (O <sub>3</sub> )	<33.0	100	µg/m <sup>3</sup>	Chemical Method (NAAQS Volume-I)
*Lead (Pb)	0.042	1.0	µg/m <sup>3</sup>	AAS Method (NAAQS Volume-I)
*Nickel (Ni)	<12.0	20	ng/m <sup>3</sup>	AAS Method (NAAQS Volume-I)
*Arsenic (As)	<1.2	06	ng/m <sup>3</sup>	AAS Method (NAAQS Volume-I)
*Benzo(a)pyrene (BaP)	<0.2	01	ng/m <sup>3</sup>	IS 5182(Part-12):2004

Sampling conditions	Rain	No	Construction site near by	No
	Wind	No	Vehicular Activity	No

Abbreviations: BDL-Below Detectable Limit, N.D-Not Detected.

\* Not covered under NABL scope

#### Remark:--

Note: This test report may not be produced in part or full, without the permission of this laboratory.  
 This test report refers only to the sample submitted for the testing.

Analyzed by

Authorized Signatory

# Ambient Air Quality monitoring report-II



## PAPL

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AIR-F-002

### TEST REPORT AMBIENT AIR QUALITY MONITORING

Report No.	PAPL/ A-58/06-20	Report Date	25/06/2020		
Work Order No.	6600010433 Dated 08/05/2020				
Name of Customer	M/s USV Private Ltd.				
Address	Plot No. N35, Anand Nagar, Ambernath (East) - 421501				
MoEF Certificate No.	From 23 May 2019		Valid up to 16/10/2024		
Type of sampling	AAQM	24 Hrs.	AAQM	24 Hrs.	AAQM
Instrument used	RDS	✓	FDS	✓	
	ID No.	AIR-I-028	ID No.	AIR-I-011	
	Calibration Date	04/09/2020	Calibration Date	05/09/2020	
Date of Sampling	18/06/2020		Sample Ref. No.	246/A-58/06-20	
Location of sampling	Near ETP Area				
Sample Collected By	Padmaja Aerobiologicals Pvt. Ltd.				

#### POLLUTION PARAMETERS

Parameter	Result	Limit	Unit	Method
Particulate Matter (PM <sub>2.5</sub> )	31	60	µg/m <sup>3</sup>	Gravimetric method (CPCB guidelines 2012, NAAQS Volume -I)
Particulate Matter (PM <sub>10</sub> )	68	100	µg/m <sup>3</sup>	IS 5182(Part-23):2006,Reaffirmed-2012
Sulphur Dioxide (SO <sub>2</sub> )	18.7	80	µg/m <sup>3</sup>	IS 5182(Part -02):2001,Reaffirmed-2012
Nitrogen Dioxide(NO <sub>2</sub> )	21.4	80	µg/m <sup>3</sup>	IS 5182(Part-06):2006
Ammonia(NH <sub>3</sub> )	<10.0	400	µg/m <sup>3</sup>	Indophenol Blue method 4.1 (CPCB guidelines 2012,NAAQS Volume-I)
*Carbon monoxide (CO)	0.9	04	mg/m <sup>3</sup>	IS 5182(Part-10):1999,Reaffirmed -2009
*Benzene (C <sub>6</sub> H <sub>6</sub> )	<0.05	05	µg/m <sup>3</sup>	IS 5182(Part-11):2006
Ozone (O <sub>3</sub> )	<33.0	100	µg/m <sup>3</sup>	Chemical Method (NAAQS Volume-I)
*Lead (Pb)	0.037	1.0	µg/m <sup>3</sup>	AAS Method (NAAQS Volume-I)
*Nickel (Ni)	<12.0	20	ng/m <sup>3</sup>	AAS Method (NAAQS Volume-I)
*Arsenic (As)	<1.2	06	ng/m <sup>3</sup>	AAS Method (NAAQS Volume-I)
*Benzo(a)pyrene (BaP)	<0.2	01	ng/m <sup>3</sup>	IS 5182(Part-12):2004

Sampling conditions	Rain	No	Construction site near by	No
	Wind	No	Vehicular Activity	No

Abbreviations: BDL-Below Detectable Limit, N.D-Not Detected.

\* Not covered under NABL scope

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# Stack monitoring report of Scrubber



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AIR-F-005

### CERTIFICATE OF ANALYSIS ANALYSIS REPORT FOR STACK EMISSION

Sample / Report Ref. No.	250/A-62/06-20	
Report Date	25/06/2020	
Work Order No.	6600010433 Dated 08/05/2020	
Name of Industry	M/s USV Private Ltd.	
Address:	Plot No.N35.Anand Nagar, Ambernath (East) -421501	
Sample Collected by	PADMAJA AEROBIOLOGICALS PVT. LTD.	
Date of Sampling	17/06/2020	Time of Sampling: Daytime

#### PARTICULARS OF STACK

Stack Attached to	Scrubbr Sc-101	
Stack Diameter (Meter)	0.3	
Stack Height (Meter)	5.0 Top of Building	
Stack Temperature (°C)	30	
Stack Velocity of Flue Gases (m/s)	--	
Stack Volume of Flue Gases (Nm <sup>3</sup> /hr)	--	
Type of Fuel	--	

#### POLLUTION PARAMETERS

Parameter	Result	Limit	Unit	Method
SO <sub>2</sub> conc.	N.D.	N.S.	mg/Nm <sup>3</sup>	IS-11255 (Part 2) 1985 Reaffirmed 2009
NOx conc.	N.D.	N.S.	mg/Nm <sup>3</sup>	IS 11255 (Part 7) 2005 Reaffirmed 2012
Acid Mist Conc.	10	35	mg/Nm <sup>3</sup>	Analar
NH <sub>3</sub> Conc.	N.D.	30	mg/Nm <sup>3</sup>	IS-11255 (Part 6) 1999 Reaffirmed 2009
Toluene Conc.	<0.186	100	mg/Nm <sup>3</sup>	G.C.
Benzene Conc.	< 0.16	05	mg/Nm <sup>3</sup>	G.C.
Chlorine Conc.	N.D.	15	mg/Nm <sup>3</sup>	IS 5182 (Part-19) 1982 Reaffirmed 2009
Acetonitrile Conc.	< 0.084	1000	mg/Nm <sup>3</sup>	G.C.
Dichloromethane Conc.	< 0.174	200	mg/Nm <sup>3</sup>	G.C.

**Remark: --**

Instrument used: - Polltech Make Model PEM-SMK 10B ID. No. AIR-I-019.  
 Calibration Valid up to 12/02/2021.  
 Limit as per MPCB Consent. N.S.: - Not Specified

Analyst

For Padmaja Aerobiologicals Pvt. Ltd.

# Stack monitoring report of Boiler



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CIN : U73100MH1995PTC092502  
NABL Accreditation Certificate No. TC-5088 Valid upto 31.12.2020.

AIR-F-005

### CERTIFICATE OF ANALYSIS

#### ANALYSIS REPORT FOR STACK EMISSION

Sample / Report Ref. No.	247/A-59/06-20	
Report Date	25/06/2020	
Work Order No.	6600010433 Dated 08/05/2020	
Name of Industry	M/s USV Private Ltd.	
Address:	Plot No.N35,Anand Nagar, Ambernath (East) -421501.	
Sample Collected by	PADMAJA AEROBIOLOGICALS PVT. LTD.	
Date of Sampling	17/06/2020	Time of Sampling: Daytime

#### PARTICULARS OF STACK

Stack Attached to	Boiler
Stack Diameter (Meter)	0.4
Stack Height (Meter)	30.0
Stack Temperature ( <sup>o</sup> C)	128
Stack Velocity of Flue Gases (m/s)	4.5
Stack Volume of Flue Gases (Nm <sup>3</sup> /hr)	1502
Type of Fuel	F.O.

#### POLLUTION PARAMETERS

Parameter	Result	Limit	Unit	Method
Total Particulate Matter (TPM)	98	150.0	mg/Nm <sup>3</sup>	EPA Method-17
SO <sub>2</sub> conc.	37.2	486	kg/day	IS-11255 (Part 2) 1985 Reaffirmed 2009
NO <sub>x</sub> conc.	80	N.S.	mg/Nm <sup>3</sup>	IS 11255 (Part 7) 2005 Reaffirmed 2012
Hydrocarbons (C <sub>1</sub> to C <sub>4</sub> )	N.D.	N.S.	ppm	GC

**Remark: --**

Instrument used: - Polltech Make Model PEM-SMK 10B ID. No. AIR-I-019.

Calibration Valid up to 12/02/2021.

Limit as per MPCB Consent. N.S.:- Not Specified

Analyst

For Padmaja Aerobiologicals Pvt. Ltd.

# Stack monitoring report of D.G. Set



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AIR-F-005

### CERTIFICATE OF ANALYSIS

#### ANALYSIS REPORT FOR STACK EMISSION

Sample / Report Ref. No.	248/A-60/06-20
Report Date	25/06/2020
Work Order No.	6600010433 Dated 08/05/2020
Name of Industry Address:	M/s USV Private Ltd. Plot No.N35,Anand Nagar, Ambernath (East) -421501
Sample Collected by	PADMAJA AEROBIOLOGICALS PVT. LTD.
Date of Sampling	17/06/2020 Time of Sampling: Daytime

#### PARTICULARS OF STACK

Stack Attached to	D.G.Set 625 kva
Stack Diameter (Meter)	0.28
Stack Height (Meter)	6.0
Stack Temperature (°C)	154
Stack Velocity of Flue Gases (m/s)	15.3
Stack Volume of Flue Gases (Nm <sup>3</sup> /hr)	2351
Type of Fuel	Diesel

#### POLLUTION PARAMETERS

Parameter	Result	Limit	Unit	Method
Total Particulate Matter (TPM)	61	150.0	mg/Nm <sup>3</sup>	EPA Method-17
SO <sub>2</sub> conc.	1.45	69.12	kg/day	IS-11255 (Part 2) 1985 Reaffirmed 2009
NO <sub>x</sub> conc.	21	N.S.	mg/Nm <sup>3</sup>	IS 11255 (Part 7) 2005 Reaffirmed 2012
Hydrocarbons (C <sub>1</sub> to C <sub>4</sub> )	N.D.	N.S.	ppm	GC

**Remark: --**

Instrument used: - Polltech Make Model PEM-SMK 10B ID. No. AIR-I-019.  
Calibration Valid up to 12/02/2021.  
Limit as per MPCB Consent. N.S.:- Not Specified

Analyst

For Padmaja Aerobiologicals Pvt. Ltd.