

**TEST REPORT**  
**(AMBIENT AIR MONITORING)**

Test Report No.	UERL/16/02/A-PI004	Report Issue Date	11/02/2016
Service Request form No.	UERL/AIR/SRF/02/004	Service Request Date	05/02/2016
Sample ID No.	UERL/AIR/ID/A-16/02/004	Field Data Sheet No.	UERL/AIR/FDS/A-16/02/004
Name & Add. of Customer	M/s. POLYGEL INDUSTRIES PVT. LTD. Survey No. 358/1P, Village Dadra, B/H Dadra Garden, Village: Dadra (U.T. of Dadra & Nagar Haveli)		
Dates of Sampling	05/02/2016	Date of Testing	06/02/2016
Sampling Procedure:	CPCB Guideline		
Location of Sampling / Monitoring	Within Company Premises		

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/01	Respirable Dust Sampler	1254-3490-DTG-2008	21/08/2015	20/08/2016
UERL/AIR/FPS/17	Fine Particulate Sampler	546-DTK-2010	01/11/2015	31/10/2016

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24
2.	Flow Rate of PM <sub>10</sub>	m <sup>3</sup> /min	1.25
3.	Volume of Air Sampled for PM <sub>10</sub>	m <sup>3</sup>	1800
4.	Volume of Air Sampled for PM <sub>2.5</sub>	m <sup>3</sup>	24.14
5.	Flow Rate for Gas	L/min	1.5
6.	Volume of Air Sample for Gas	L	2160

➤ **Environmental Conditions during testing :** Temp.: 25 ± 5 °C, Relative Humidity: 40 to 50%

➤ **Test Parameter Results**

Sr. No.	Test Parameter	Unit	Result	Specific Value (As per NAAQMS)	Method of Measurement
1.	Particulate Matter. (PM <sub>10</sub> )	µg/m <sup>3</sup>	81	100	IS - 5182, Part - 23
2.	Particulate Matter. (PM <sub>2.5</sub> )	µg/m <sup>3</sup>	26	60	CPCB Manual Volume - 1
3.	Sulphur Dioxide	µg/m <sup>3</sup>	19.1	80	IS - 5182, Part - 2
4.	Nitrogen Dioxide	µg/m <sup>3</sup>	22.6	80	IS - 5182, Part - 6
5.	Carbon Monoxide	mg/m <sup>3</sup>	0.05	2.0	By using Gas Analyzer
6.	Ozone	µg/m <sup>3</sup>	BDL	100	Chemical Method

Sampling Done By:

*A. R. P.*  
(Chemist)  
(A. R. P.)

Page No.: 1 of 1

Tested By:

*P. B. T.*  
(Chemist) / (Sr. Chemist)  
(P. B. T.)

Authorized By:

*C. J. S.*  
(Sr. Chemist)  
(C. J. S.)

UERL/AIR/F-05/02

**TEST REPORT  
(STACK MONITORING)**

Test Report No.	UERL/16/02/S-PI014	Report Issue Date	11/02/2016
Service Request form No.	UERL/AIR/SRF/02/014	Service Request Date	05/02/2016
Sample ID No.	UERL/AIR/ID/S-16/02/014	Field Data Sheet No.	UERL/AIR/FDS/S-16/02/014
Name & Add. of Customer	M/s. POLYGEL INDUSTRIES PVT. LTD. Survey No. 358/1P, Village Dadra, B/H Dadra Garden, Village: Dadra (U.T. of Dadra & Nagar Haveli)		
Date of Sampling	05/02/2016	Date of Testing	05/02/2016
Stack Sampling Attached to	Boiler		
Air Pollution Control Device	--		
Fuel Used	LDO		

➤ **Details of Instrument Used for Monitoring**

Instrument Id No.	UERL/AIR/SMK/16		
Instrument Name	Stack Monitoring Kit, VSS1	Serial Number	814 DT1 10
Calibration Date	01/09/2015	Next Calibration Due On	31/08/2016

➤ **General Stack Monitoring Observation**

Sr. No.	Description	Unit of measurement	Observation
1.	Stack Height	m	22
2.	Stack Dia	mm	300
3.	Stack Area	m <sup>2</sup>	0.0706
4.	Ambient Temperature	°C	29
5.	Flue Gas Temperature	°C	125
6.	Exit Gas Velocity	m/s	7.58
7.	Exit Gas Flow	m <sup>3</sup> /h	1926

➤ **Test Parameter Results**

Sr. No.	Test Parameter	Unit of measurement	Result	Specific Value	Method of Test
1.	Particulate Matter	mg/Nm <sup>3</sup>	87	<150	IS 11255( Part 1)
2.	Sulphur Dioxide	mg/Nm <sup>3</sup>	24	<40	IS 11255(Part 2)
3.	Oxide of Nitrogen	mg/Nm <sup>3</sup>	19	<25	IS 11255(Part 7)

Sampling Done By:

*A. Patel*  
(Chemist)  
(A-11-1)

Page No.: 1 of 1

Tested By:

*R. Patel*  
(Chemist) / (Sr. Chemist)  
(10-1)-7)

Authorized By:

*S. Patel*  
(Sr. Chemist)  
(S-11)

UERL/AIR/F-04/00

**TEST REPORT  
(STACK MONITORING)**

Test Report No.	UERL/16/02/S-PI015	Report Issue Date	11/02/2016
Service Request form No.	UERL/AIR/SRF/02/015	Service Request Date	05/02/2016
Sample ID No.	UERL/AIR/ID/S-16/02/015	Field Data Sheet No.	UERL/AIR/FDS/S-16/02/015
Name & Add. of Customer	M/s. POLY GEL INDUSTRIES PVT. LTD. Survey No. 358/1P, Village Dadra, B/H Dadra Garden, Village: Dadra (U.T. of Dadra & Nagar Haveli)		
Date of Sampling	05/02/2016	Date of Testing	05/02/2016
Stack Sampling Attached to	Thermopac		
Air Pollution Control Device	--		
Fuel Used	LDO		

➤ **Details of Instrument Used for Monitoring**

Instrument Id No.	UERL/AIR/SMK/16		
Instrument Name	Stack Monitoring Kit, VSS1	Serial Number	814 DTI 10
Calibration Date	01/09/2015	Next Calibration Due On	31/08/2016

➤ **General Stack Monitoring Observation**

Sr. No.	Description	Unit of measurement	Observation
1.	Stack Height	m	15
2.	Stack Dia	mm	300
3.	Stack Area	m <sup>2</sup>	0.0706
4.	Ambient Temperature	°C	29
5.	Flue Gas Temperature	°C	147
6.	Exit Gas Velocity	m/s	8.84
7.	Exit Gas Flow	m <sup>3</sup> /h	2246

➤ **Test Parameter Results**

Sr. No.	Test Parameter	Unit of measurement	Result	Specific Value	Method of Test
1.	Particulate Matter	mg/Nm <sup>3</sup>	91	<150	IS 11255( Part 1)
2.	Sulphur Dioxide	mg/Nm <sup>3</sup>	29	<40	IS 11255(Part 2)
3.	Oxide of Nitrogen	mg/Nm <sup>3</sup>	22	<25	IS 11255(Part 7)

Sampling Done By:

*A. Patel*  
(Chemist)  
(A-2-1)

Page No.: 1 of 1

Tested By:

*P. Patel*  
(Chemist) / (Sr. Chemist)  
(H-2-7)

Authorized By:

*P. Patel*  
(Sr. Chemist)  
(2-2-3)

UERL/AIR/F-04/00

**TEST REPORT  
(STACK MONITORING)**

Test Report No.	UERL/16/02/S-PI016	Report Issue Date	11/02/2016
Service Request form No.	UERL/AIR/SRF/02/016	Service Request Date	05/02/2016
Sample ID No.	UERL/AIR/ID/S-16/02/016	Field Data Sheet No.	UERL/AIR/FDS/S-16/02/016
Name & Add. of Customer	M/s. POLYGEL INDUSTRIES PVT. LTD. Survey No. 358/1P, Village Dadra, B/H Dadra Garden, Village: Dadra (U.T. of Dadra & Nagar Haveli)		
Date of Sampling	05/02/2016	Date of Testing	05/02/2016
Stack Sampling Attached to	D. G. Set (500 KVA)		
Air Pollution Control Device	--		
Fuel Used	Diesel		

➤ **Details of Instrument Used for Monitoring**

Instrument Id No.	UERL/AIR/SMK/16		
Instrument Name	Stack Monitoring Kit, VSS1	Serial Number	814 DTI 10
Calibration Date	01/09/2015	Next Calibration Due On	31/08/2016


➤ **General Stack Monitoring Observation**

Sr. No.	Description	Unit of measurement	Observation
1.	Stack Height	m	4
2.	Stack Dia	mm	200
3.	Stack Area	m <sup>2</sup>	0.0314
4.	Ambient Temperature	°C	29
5.	Flue Gas Temperature	°C	253
6.	Exit Gas Velocity	m/s	19.62
7.	Exit Gas Flow	m <sup>3</sup> /h	2217

➤ **Test Parameter Results**

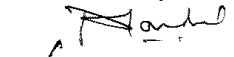
Sr. No.	Test Parameter	Unit of measurement	Result	Specific Value	Method of Test
1.	Particulate Matter	mg/Nm <sup>3</sup>	39	<150	IS 11255(Part 1)
2.	Sulphur Dioxide	mg/Nm <sup>3</sup>	16	<40	IS 11255(Part 2)
3.	Oxide of Nitrogen	mg/Nm <sup>3</sup>	15	<25	IS 11255(Part 7)

Sampling Done By:


  
(Chemist)  
(A.R.T.)

Page No.: 1 of 1

Tested By:

  
(Chemist) / (Sr. Chemist)  
(K.A.T.)

Authorized By:

  
(Sr. Chemist)  
(G.S.S.)

UERL/AIR/F-04/00

**TEST REPORT  
(STACK MONITORING)**

Test Report No.	UERL/16/02/S-PI017	Report Issue Date	11/02/2016
Service Request form No.	UERL/AIR/SRF/02/017	Service Request Date	05/02/2016
Sample ID No.	UERL/AIR/ID/S-16/02/017	Field Data Sheet No.	UERL/AIR/FDS/S-16/02/017
Name & Add. of Customer	M/s. POLYGEL INDUSTRIES PVT. LTD. Survey No. 358/1P, Village Dadra, B/H Dadra Garden, Village: Dadra (U.T. of Dadra & Nagar Haveli)		
Date of Sampling	05/02/2016	Date of Testing	05/02/2016
Stack Sampling Attached to	Scrubber		

➤ **Details of Instrument Used for Monitoring**

Instrument Id No.	UERL/AIR/SMK/16		
Instrument Name	Stack Monitoring Kit, VSS1	Serial Number	814 DTI 10
Calibration Date	01/09/2015	Next Calibration Due On	31/08/2016


➤ **General Stack Monitoring Observation**

Sr. No.	Description	Unit of measurement	Observation
1.	Stack Height	m	12
2.	Stack Dia	mm	200
3.	Stack Area	m <sup>2</sup>	0.0314
4.	Ambient Temperature	°C	29
5.	Exit Velocity	m/s	7.87
6.	Exit Flow	m <sup>3</sup> /h	889

➤ **Test Parameter Results**

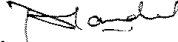
Sr. No.	Test Parameter	Unit of measurement	Result	Specific Value
1.	Hydrochloric Acid (as HCl)	mg/Nm <sup>3</sup>	Not Detected	<35
2.	Ammonia (as NH <sub>3</sub> )	mg/Nm <sup>3</sup>	60	<175

Sampling Done By:


  
(Chemist)  
(A-R-T)

Page No.: 1 of 1

Tested By:

  
(Chemist) / (Sr. Chemist)  
(A-R-T)

Authorized By:

  
(Sr. Chemist)  
(S.S.)

UERL/AIR/F-04/00



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MoEF&CC (GOI) Recognized Environment Laboratory under the EPA-1986(12.01.2015 to 11.01.2020) NABL (ISO/IEC-17025) Accredited laboratory Chemical: T-2239 Biological: T-2240 (15.09.2014 to 14.09.2016) CCI-NABET Accredited EIA Consultant Organization (14.02.2014 to 13.02.2017) Gujarat Pollution Control Board (Govt. of Gujarat) Recognized Environmental Auditor (Schedule-II) OHSAS18001:2007 Certified Laboratory Management System (Company 140527019104) ISO 9001:2008 Certified T.N.V. : S 0 5 2 0 0 3 9 1 0 1

### NOISE LEVEL MONITORING REPORT

Test Report No.:	16/02/N-PI011	Date Of Report:	11/02/2016
Name & Add. Of Industries	M/s. POLYGEL INDUSTRIES PVT. LTD. Survey No. 358/1P, Village Dadra, B/H Dadra Garden, Village: Dadra (U.T. of Dadra & Nagar Haveli)		

➤ Details of Instrument Used for Monitoring.

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/SLM/09A	Sound Level Meter	24 DTE 2008	01/04/2015	31/03/2016

Date and Time of Monitoring : 05-02-2016 at 11:45 Hrs. (Day Time)

**Result**

Sr. No.	Location	Direction	Noise Level dB(A)	Permissible Limit CPCB
1.	Within Company Premises.	East	63	<75 dB(A)
		West	62	<75 dB(A)
		South	69	<75 dB(A)
		North	65	<75 dB(A)

**Note:**

Checked By

Authorized By



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MoEF&CC (GOI) Recognized Environment Laboratory under the EPA-1986(12.01.2015 to 11.01.2020) NABL (ISO/IEC:17025) Accredited Laboratory (15.09.2014 to 14.09.2016) QCI-NABET Accredited EIA Consultant Organization (Govt. of Gujarat) Recognized Laboratory Management System (14.02.2014 to 13.02.2017) : Environmental Auditor (Schedule-II) OHSAS18001:2007 Certified (TNY 150520039101) ISO 9001:2008 Certified Company 140527019104

### NOISE LEVEL MONITORING REPORT

Test Report No.:	16/02/N-PI012	Date Of Report:	11/02/2016
Name & Add. Of Industries	M/s. POLYGEL INDUSTRIES PVT. LTD. Survey No. 358/1P, Village Dadra, B/H Dadra Garden, Village: Dadra (U.T. of Dadra & Nagar Haveli)		

➤ **Details of Instrument Used for Monitoring.**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/SLM/09A	Sound Level Meter	24 DTE 2008	01/04/2015	31/03/2016

Date and Time of Monitoring : 05-02-2016 at 22:00 Hrs. (Night Time)

**Result**

Sr. No.	Location	Direction	Noise Level dB(A)	Permissible Limit CPCB
1.	Within Company Premises.	East	57	<70 dB(A)
		West	55	<70 dB(A)
		South	62	<70 dB(A)
		North	59	<70 dB(A)

**Note:**

Checked By

*A. Patel*

Authorized By

*[Signature]*

**TEST REPORT**


Report No.	UERL /16/02/L-0070		Date Of Report	09/02/2016
Name & Address of Customer	M/s. POLYGEL INDUSTRIES PVT. LTD. 358/1-P, Village – Dadra ,B/H Dadra Garden, Village: Dadra (U.T. of Dadra & Nagar Haveli)			
Sample Details	ETP Inlet Water	Sample Qty.	1+2 Lit.	
Sampling Date	05/02/2016	Sample Received Date	05/02/2016	
Sampled By	Us.	Appearance Of Sample	Colourless	
Test Started Date	05/02/2016	Test Completion Date	08/02/2016	
UERL Lab Sample ID.No. 16/02/L-0070				

**TEST RESULTS**

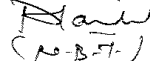
Sr. No.	Parameters	Test Method	Results
<b>PHYSICAL QUALITY</b>			
1.	pH @ 25 °C	IS 3025(Part 11)1983, (APHA 22 <sup>nd</sup> Ed.,2012,4500-H'B)	7.44
2.	Colour (Pt. Co. Scale)	IS 3025(Part 4)1983	80
<b>CHEMICAL QUALITY (In mg/L)</b>			
1.	Total Dissolved Solids	(APHA 22 <sup>nd</sup> Ed.,2012,2540- C), IS 3025(Part 16)1984	504
2.	Total Suspended Solids	IS 3025(Part 17)1984,Amd.1 (APHA 22 <sup>nd</sup> Ed.,2012,2540 –D),	66
3.	Chemical Oxygen Demand (COD)	IS 3025(Part 58)2006, (APHA 22 <sup>nd</sup> Ed.,2012,5220-B),	77.2
4.	Biochemical Oxygen Demand (BOD) (3 days at 27 °C)	IS 3025(Part44)1993, Amd. 1	23
5.	Oil & Grease	IS 3025(Part39)1991,Amd. 1	5.0
6.	Chloride (as Cl)	IS 3025(Part 32)1988, (APHA 22 <sup>nd</sup> Ed.,2012,4500-Cl)	101.7
7.	Sulphate (as SO <sub>4</sub> )	IS 3025(Part 24)1986	72.5

\*\*\*\*\* End of Report \*\*\*\*\*

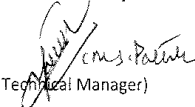
Tested By

  
(N.C.P.)  
(Chemist)

Checked By

  
(N.B.T.)  
(Sr. Chemist)

Authorized By

  
(Technical Manager)



### TEST REPORT

Report No	UERL /16/02/L-0071	Date Of Report	09/02/2016
Name & Address of Customer	M/s. POLYGEL INDUSTRIES PVT. LTD. 358/1-P, Village – Dadra ,B/H Dadra Garden, Village: Dadra (U.T. of Dadra & Nagar Haveli)		
Sample Details	ETP Outlet Water	Sample Qty.	1+2 Lit.
Sampling Date	05/02/2016	Sample Received Date	05/02/2016
Sampled By	Us.	Appearance Of Sample	Colourless
Test Started Date	05/02/2016	Test Completion Date	08/02/2016
UERL Lab Sample ID.No. 16/02/L-0071			

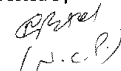
### TEST RESULTS

Sr. No.	Parameters	Test Method	P.C.C. Limit	Results
<b>PHYSICAL QUALITY</b>				
1.	pH @ 25 °C	IS 3025(Part 11)1983, (APHA 22 <sup>nd</sup> Ed.,2012,4500-H <sup>7</sup> B)	6.5 – 9.0	7.86
2.	Colour (Pt. Co. Scale)	IS 3025(Part 4)1983	--	60
<b>CHEMICAL QUALITY (In mg/L)</b>				
1.	Total Dissolved Solids	(APHA 22 <sup>nd</sup> Ed.,2012,2540- C), IS 3025(Part 16)1984	--	308
2.	Total Suspended Solids	IS 3025(Part 17)1984,Amd.1 (APHA 22 <sup>nd</sup> Ed.,2012,2540 –D),	100 Max	16
3.	Chemical Oxygen Demand (COD)	IS 3025(Part 58)2006, (APHA 22 <sup>nd</sup> Ed.,2012,5220-B),	250 Max	36.5
4.	Biochemical Oxygen Demand (BOD) (3 days at 27 °C)	IS 3025(Part44)1993, Amd. 1	100 Max	11
5.	Oil & Grease	IS 3025(Part39)1991,Amd. 1	10 Max	N.D.(MDL:4.0)
6.	Chloride (as Cl)	IS 3025(Part 32)1988, (APHA 22 <sup>nd</sup> Ed.,2012,4500-Cl)	--	36.3
7.	Sulphate (as SO <sub>4</sub> )	IS 3025(Part 24)1986	--	44.5

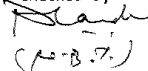
Note: N.D. = Not Detected, MDL = Minimum Detection Limit

\*\*\*\*\* End of Report \*\*\*\*\*

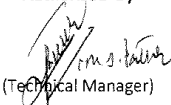
Tested By

  
(P.C.P.)  
(Chemist)

Checked By

  
(P.B.S.)  
(Sr. Chemist)

Authorized By

  
(Technical Manager)

**TEST REPORT**

Report No.	UERL /16/02/L-0072	Date Of Report	09/02/2016
Name & Address of Customer	M/s. POLY GEL INDUSTRIES PVT. LTD. 358/1-P, Village – Dadra ,B/H Dadra Garden, Village: Dadra (U.T. of Dadra & Nagar Haveli)		
Sample Details	Drinking Water Sample	Sample Qty.	4 Lit.
Sampling Date	05/02/2016	Sample Received Date	05/02/2016
Sampled By	Us.	Appearance Of Sample	Colourless
Test Started Date	05/02/2016	Test Completion Date	08/02/2016
UERL Lab Sample ID.No. 16/02/L-0072			

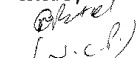
**TEST RESULTS**

Sr. No.	Parameters	Test Method	As Per IS 10500:2012		Results
			Desirable Limit	Permissible limit in the Absence of Alternate Source	
<b>PHYSICAL QUALITY</b>					
1.	pH @ 25 ° C	IS 3025(Part 11)1983, (APHA 22 <sup>nd</sup> Ed.,2012,4500-H <sup>+</sup> B)	6.5 to 8.5	6.5 to 8.5	7.43
2.	Colour (Pt. Co. Scale)	IS 3025(Part 4)1983	5 Max.	15 Max.	<5
3.	Taste	IS 3025(Part 7)1984	Agreeable	Agreeable	Agreeable
4.	Turbidity(NTU)	IS 3025(Part 10)1984	1 Max.	5 Max.	N.D.(MDL :1.0)
<b>CHEMICAL QUALITY (In mg/L)</b>					
1.	Total Dissolved Solids	{APHA 22 <sup>nd</sup> Ed.,2012,2540-C), IS 3025(Part 16)1984	500 Max.	2000 Max.	416
2.	Total Hardness (as CaCO <sub>3</sub> )	{IS 3025(Part 21)2009,Amd.1]	200 Max.	600 Max.	105
3.	Alkalinity	{IS 3025(Part 23)1986, Amd.2]	200 Max.	600 Max.	128.8
4.	Chloride (as Cl)	IS 3025(Part 32)1988 (APHA 22 <sup>nd</sup> Ed.,2012,4500-Cl)	250 Max.	1000 Max.	15.2
5.	Sulphate (as SO <sub>4</sub> <sup>-2</sup> )	IS 3025(Part 24)1986	200 Max.	400 Max.	13.5
6.	Nitrate (as NO <sub>3</sub> )	{APHA 22 <sup>nd</sup> Ed.,2012,4500 NO3-B)	45 Max.	45 Max.	1.1
7.	Calcium (as Ca)	{APHA 22 <sup>nd</sup> Ed.,2012,3500 Ca.B)	75 Max.	200 Max.	29.2
8.	Magnesium (as Mg)	{APHA 22 <sup>nd</sup> Ed.,2012,3500 Mg.B)	30 Max.	100 Max.	7.8
9.	Fluoride (as F)	{APHA 22 <sup>nd</sup> Ed.,2012,4500 F,D)	1.0 Max.	1.5 Max.	0.41
10.	Iron (as Fe)	IS 3025(Part 53)2003, (APHA 22 <sup>nd</sup> Ed.,2012,,3111-B)	1.0 Max	1.0 Max	N.D.(MDL:0.001)
11.	Zinc (as Zn)	IS 3025(Part 49)1994, (APHA 22 <sup>nd</sup> Ed.,2012,3111-B)	5 Max.	15 Max.	N.D.(MDL:0.001)
12.	Phenolic Compound as (C <sub>6</sub> H <sub>5</sub> OH)	{APHA 22 <sup>nd</sup> Ed.,2012,5530-C)	0.001 Max.	0.002 Max.	N.D.(MDL : 0.01)
13.	Residual Chlorine	IS 3025(Part 26)1986, {APHA 22 <sup>nd</sup> Ed.,2012,4500-Cl-B)	0.2 Max.	1.0 Max.	N.D.(MDL : 0.2)

Note: N.D. = Not Detected, MDL = Minimum Detection Limit

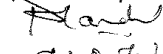
\*\*\*\*\* End of Report \*\*\*\*\*

Tested By



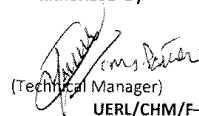
(Chemist)

Checked By



(Sr. Chemist)

Authorized By



(Technical Manager)