

®

**LOMBARDY**

PIPES

THE  
**SMARTER**  
CHOICE

# ABOUT US

2001

## THE LOMBARDY JOURNEY

Back in 2001, Lombardy Pipes was formed with a vision to provide water to as many homes and people it could in Nigeria. The company commenced operations with humble beginnings, precisely with one Cincinnati machine and aligned all efforts towards this vision. We started producing pressure pipes that were of exceptional quality and offered these at affordable prices and gradually grew our business from there. Today we serve Water, Energy and Power Distribution Industries and many more.



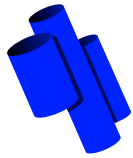
## WE ARE LOMBARDY

LOMBARDY PIPES is one of the largest producers of PVC, PPR and HDPE Pipes in Nigeria. Our multicultural team of Piping experts work rigorously to meet the ever-changing needs of the market and to exceed the expectations of our clients. Our clients come to us as we deliver only the best, we have earned this reputation solely because of the dedication our team puts into every project and order. Today we have developed a circle of trust amongst all our stakeholders, and this circle of trust keeps our company moving forward.



## WE MAKE IT HAPPEN

As a mature industry, we have comprehensive experience of processes on every level of value creation, from product development and production to supply, sales & after sales services. Our strengths also include our deep-rooted drive and capability for continuous improvement, which we use to continually increase our efficiency in achieving the best return on investment for the customer. While competing with regional and global players, this allows us to successfully realize a balance between form and functional differentiation in our products on one hand and cost leadership in products on the other.



## OUR PRODUCTS & SERVICES

Lombardy Pipes provides the markets of Nigeria and Africa with a comprehensive range of PPR, PVC, and HDPE Pipes. We maintain international standards to provide the highest quality products; by performing stringent quality tests at our in-house laboratory.



## OUR COMPANY'S VISION & GOALS

As Nigeria's leading manufacturer of pressure pipes, in PVC, HDPE, and PPR we take advantage of our local production capabilities and our human resources. Our goal is to improve the quality of life with products that are both durable and reliable. Adopting the latest advancements in cutting-edge technologies increases our efficiency and enables us to offer our products at affordable prices.



## WHERE YOU CAN FIND US

Lombardy supplies its products internationally and all across Nigeria, today. We receive our primary business from East Lagos and Abuja. Our Factory is located in Ota which has the third largest concentration of industries in Nigeria. Being situated in a favorable location translates into better efficiencies during all logistic processes, both internal and external.

## SOME OF OUR PRESTIGIOUS CLIENTS:



# PVC

## PRESSURE & NON PRESSURE PIPES

Since 1950s Polyvinyl Chloride (PVC) pipes have been the first choice to bring water to communities across the world. It has varied applications in both pressure and non-pressure infrastructure piping systems. It has grown to become the most common material adopted in water systems across the globe. PVC pipes are widely used in municipal systems to bring clean water to homes and carry sewage to wastewater treatment facilities. PVC resins are developed in an industrial process that combines natural gas and salt. Additional additives are blended to formulate the PVC compound which is extruded into pipes. Appropriate colors signifying its usage are added, and then the pipes are tested to ensure they meet all required standards before being shipped to clients and customers.

## CHARACTERISTICS

PVC pipes offer several benefits and are becoming the number one choice for municipalities, homeowners and others who need a durable, sustainable and high-quality solution for their projects. Our pipes are subjected to highest standards in quality testing which include impact strength tests and crush resistance tests. The tests we conduct in our in-house testing facility ensure the pipes can be deployed in underground applications.

## BENEFITS

### LONG LIFESPAN

Over 100 years of lifespan translate into lower replacement and maintenance costs.

### CORROSION RESISTANCE

As PVC does not react with air and water it remains free from corrosion and rust.

### LOW FRICTION

Extremely smooth inner walls, a minimal build-up of materials results in less friction.

### EASE IN HANDLING

Its lightweight nature offers ease in transportation and in the assembly of complex pipe networks.

### RESISTANCE TO CHEMICALS

PVC materials are resistant to most chemicals and micro/macro biological agents.

### STRENGTH & DURABILITY

PVC pipes have the toughness and flexibility to withstand adverse conditions with ease.

## APPLICATIONS

Lombardy PVC pipes are used with confidence in the following applications:



WASTEWATER &  
DRAINAGE



AGRICULTURE



MINING &  
INDUSTRIAL



PLUMBING



GAS



ELECTRICAL &  
COMMUNICATIONS





MADE FROM

**100%**

**VIRGIN  
MATERIAL**

# PVC

## CORPORATE PIPES

Lombardy PVC Corporate Pipes are made from 100% virgin material meant for Water Pressure in different classes of pressure. In Nigeria these pipes are primarily used in water supply, irrigation and sewerage rising mains. Their high strength to weight ratio together with exceptional resistance to corrosion or chemical attack makes these pipes ideal for vital infrastructure applications. Lombardy pipes manufacture a wide assortment of these pipes to conform to various pressure rating and overall thickness.

PRESSURE PIPES									
Outside Diameter	Nominal Wall Thickness (mm) for pressure Pipes								
	1	2	3	4	5	6	7	8	9
20 MM	1.8	2.6	---	---	---	---	---	---	---
25 MM	1.8	2.6	---	---	---	---	---	---	---
32 MM	1.8	2.6	---	---	---	---	---	---	---
40 MM	1.8	2.6	---	---	---	---	---	---	---
50 MM	2.0	2.8	3.0	3.6	---	---	---	---	---
63 MM	2.0	3.0	3.6	---	---	---	---	---	---
75 MM	2.5	3.6	5.6	---	---	---	---	---	---
90 MM	3.0	4.0	7.0	---	---	---	---	---	---
110 MM	1.5	1.7	2.0	2.9	3.2	4.8	5.3	6.5	8.2
115 MM	3.5	4.0	---	---	---	---	---	---	---
140 MM	3.2	5.0	6.5	---	---	---	---	---	---
160 MM	2.0	2.5	3.2	4.7	7.7	10.6	---	---	---
200 MM	4.3	5.0	7.5	9.6	14.9	---	---	---	---
225 MM	5.0	7.5	10.8	17.0	---	---	---	---	---
250 MM	5.0	7.5	11.9	13.5	18.9	---	---	---	---
20 mm - 32 mm Plain End (With out socket)									
40 mm - 75 mm Selfit Socket only									
90 mm - 400 mm Selfit Socket and Rubber Ring Joint on suitable wall thickness									
Length As per requirements									
Colour Grey or Blue or Off white									

WASTE PIPES	
Outside Diameter	Nominal Wall Thickness (mm) for Waste Pipes
40 MM	1.1
50 MM	1.1
63 MM	1.1
75 MM	1.1
110 MM	1.1
40 mm - 110 mm Selfit Socket only	
Length 9 feet and above as per requirments	
Colour Grey or Blue or Off white	

CONDUIT PIPES	
Outside Diameter	Nominal Wall Thickness (mm) for Waste Pipes
20 MM	1.0
25 MM	1.1
20 mm - 25 mm Selfit Socket only	
Length 7 feet and above as per requirments	
Colour Grey or Black	

UPVC PIPES AS PER DIN 8062				
Outside Diameter	Nominal Wall Thickness (mm) for pressure Pipes			
	CLASS 2 (4 BAR)	CLASS 3 (6 BAR)	CLASS 4 (10 BAR)	CLASS 5 (16 BAR)
20 MM				1.5
25 MM			1.5	1.9
32 MM			1.8	2.4
40 MM		1.8	1.9	3.0
50 MM		1.8	2.4	3.7
63 MM		1.9	3.0	4.7
75 MM	1.8	2.2	3.6	5.6
90 MM	1.8	2.7	4.3	6.7
110 MM	2.2	3.2	5.3	8.2
125 MM	2.5	3.6	6.0	9.2
140 MM	2.8	4.1	6.7	10.4
160 MM	3.2	4.7	7.7	11.9
180 MM	3.6	5.3	8.6	13.4
200 MM	4.0	5.9	9.6	14.9
225 MM	4.5	6.6	10.8	16.7
250 MM	4.9	7.3	11.9	18.6
280 MM	5.5	8.2	13.4	20.8
315 MM	6.2	9.2	15.0	23.4
355 MM	7	10.4	16.9	26.7
400 MM	7.9	11.7	19.1	29.7
160 mm - 400 mm Selfit Socket and Rubber Ring Joint				
Length Standard 6 mtr. Or as per requirements				
Colour Grey or Blue				

UPVC PIPES AS PER ISO 4422-2			
Outside Diameter	Nominal Wall Thickness (mm) for pressure Pipes		
	CLASS 3 (6 BAR)	CLASS 4 (10 BAR)	CLASS 5 (16 BAR)
20 MM			1.5
25 MM			1.9
32 MM		1.6	2.4
40 MM		1.9	3.0
50 MM		2.4	3.7
63 MM	1.9	3.0	4.7
75 MM	2.2	3.6	5.6
90 MM	2.7	4.3	6.7
110 MM	2.7	4.2	6.6
125 MM	3.1	4.8	7.4
140 MM	3.5	5.4	8.3
160 MM	4.0	6.2	9.5
200 MM	4.9	7.7	11.9
225 MM	5.5	8.6	13.4
250 MM	6.2	9.6	14.8
315 MM	7.7	12.1	18.7
400 MM	9.8	15.3	23.7
160 mm - 400 mm Selfit Socket and Rubber Ring Joint			
Length Standard 6 mtr. Or as per requirements			
Colour Grey or Blue			



**UPVC PIPES AS PER NIC 76- 1980**

Nominal Wall Thickness (mm) for pressure Pipes									
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Outside Diameter	Mean O. D.		O.D. at any Point (Ovality)		WORKING PRESSURE (Normal Pressure in Bar)											
					Series S 20 PN 4		Series S 12.5 PN 6		Series S 8 PN 10		Series S 5 PN 16					
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max		
10 MM	10.0	10.3	9.5	10.5	---	---	---	---	---	---	---	---	1.5	1.9		
12 MM	12.0	12.3	11.5	12.5	---	---	---	---	---	---	---	---	1.9	2.3		
16 MM	16.0	16.3	15.5	16.5	---	---	---	---	1.5	1.9	---	---	22.3	2.8		
20 MM	20.0	20.3	19.5	20.5	---	---	---	---	1.5	1.9	---	---	2.3	2.8		
25 MM	25.0	25.3	24.5	25.5	---	---	---	---	1.9	2.3	---	---	3	3.5		
32 MM	32.0	32.3	31.5	32.5	---	---	1.6	2.0	2.4	2.9	---	---	3.7	4.3		
40 MM	40.0	40.3	39.5	40.5	---	---	1.9	2.3	3.0	3.5	---	---	4.6	5.3		
50 MM	50.0	50.3	49.4	50.6	1.6	2.0	2.5	3.0	3.8	4.4	---	---	5.8	6.6		
63 MM	63.0	63.3	62.2	63.8	1.6	2.0	2.5	3.0	3.8	4.4	---	---	5.8	6.6		
75 MM	75.0	75.3	74.1	75.9	1.9	2.3	2.9	3.4	4.5	5.2	---	---	6.9	7.8		
90 MM	90.0	90.3	88.9	91.1	2.2	2.7	3.5	4.1	5.3	6.1	---	---	8.2	9.3		
110 MM	110.0	110.4	108.6	111.4	2.7	3.2	4.3	5.0	6.5	7.4	---	---	10.0	11.2		
125 MM	125.0	125.4	123.5	126.5	3.1	3.7	4.9	5.6	7.4	8.4	---	---	11.4	12.8		
140 MM	140.0	140.5	138.3	141.7	3.5	4.1	5.4	6.2	8.3	9.4	---	---	12.8	14.3		
160 MM	160.0	160.5	158.0	162.0	4.0	4.6	6.2	7.1	9.5	10.7	---	---	14.6	16.3		
180 MM	180.0	180.6	177.8	182.2	4.4	5.1	7.0	7.9	10.6	11.9	---	---	16.4	18.3		
200 MM	200.0	200.6	197.6	202.4	4.9	5.6	7.7	8.7	11.8	13.2	---	---	18.2	20.3		
225 MM	225.0	225.7	222.3	227.7	5.5	6.3	8.7	9.8	13.3	14.9	---	---	20.5	22.8		
250 MM	280.0	250.8	247.0	253.0	6.1	7.0	9.7	10.9	14.8	16.5	---	---	22.7	25.2		
280 MM	280.0	280.9	276.6	283.4	6.9	7.8	10.8	12.1	16.5	18.4	---	---	25.5	28.3		
315 MM	315.0	316.0	311.2	318.8	7.7	8.7	12.1	13.6	18.6	20.7	---	---	28.7	31.8		
355 MM	355.0	356.1	350.7	359.3	8.7	9.8	13.7	15.3	20.9	23.2	---	---	33.3	36.9		
400 MM	400.0	401.2	395.2	404.8	9.8	11.0	15.4	17.2	23.6	26.2	---	---	36.4	40.3		

20 mm - 32 mm	Plain End (With out socket)
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40 mm - 75 mm	Selfit Socket only
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90 mm - 400 mm	Selfit Socket o all series and Rubber Ring Joint on above PN 6
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<b>Length</b>	<b>As per requirements</b>
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Colour	Grey or Blue or Off white
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# HDPE

## PRESSURE & NON PRESSURE PIPES

In today's world, HDPE Pipes have fast gained popularity to be known as the primary choice for engineers, technicians, applicators, contractors, and customers in a wide array of industry applications. These include the needs of Oil & Gas, marine, mining, landfill, municipal, industrial and agricultural projects to name a few. High-density polyethylene is a flexible, durable, inert thermoplastic made from polymerized ethylene. The HDPE pipes offer resistance to slow and rapid crack propagation, increased hydrostatic pressure resistance and performance at elevated temperature, broadening the range of its applications. HDPE pipes have been deployed in water-works for several decades and has developed a proven track record of quality reliability and durability. Lombardy produces world class range of HDPE pipes and is the leading manufacturer of these pipes in Nigeria.

## ADVANTAGES

HDPE (High-density polyethylene) is a durable, robust, flexible and lightweight material which make it an optimal piping solution. The fusion of HDPE pipes results in a Zero LEAK rate owing to its seamless properties. There are several advantages of adopting HDPE pipes including corrosion and chemical resistance, environmental friendliness due to its non toxic nature, a long lifespan and its applications in trench-less installations.

## BENEFITS

### WEATHER RESISTANCE

The pipes resist ultraviolet degradation and are impervious to rain and wind conditions.

### EASE OF HANDLING

Its lightweight nature offers ease in transportation and in the assembly of complex pipe networks.

### RESISTANCE TO ABRASION

Where very abrasive mediums have to be transported, HDPE pipes are the ideal choice.

### CHEMICAL RESISTANCE

HDPE's inert nature makes it corrosion and chemical resistant against corrosive acids, bases, and salts.

### STRENGTH & FLEXIBILITY

HDPE has a high degree of impact resistance and is robust and ductile. It is able to withstand pressure surges.

### LOW FRICTION

The smooth internal surface of the pipe and the impermeability of HDPE allows a greater flow capacity and minimal friction loss.

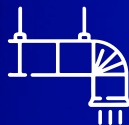
## APPLICATIONS

Lombardy High-Density Polyethylene pressure pipes are used with confidence in the following applications



### AGRICULTURE & IRRIGATION

- Flood Irrigation (Suction & Delivery pipes in pump sets)
- Sprinkler Irrigation (Crops, Lawns, Golf course, Gardens)
- Drip irrigation (Plantations, Orchards, Nurseries)



### DUCTING

- Air-conditioning & Refrigeration
- Extraction of Fumes
- Telecommunication, as conduits for OFC



### WATER SUPPLY

- Potable water supply
- Water mains
- Distribution
- Service Pipes



### BUILDINGS

- Conduits for Cables



### INDUSTRIAL USAGE, EFFLUENT DISPOSAL AND SEWAGE

- Domestic Sewage System
- Sanitary System
- Petrochemical Industry
- Fertilizer Industry
- Dredging
- Oil and Gas



### DRAINAGE PIPES

- Surface & Rainwater
- Waste Water Mains
- Sub-soil water

WE PRODUCE  
HDPE PIPES  
FROM

**20**MM

upto

**630**MM



**HDPE**

**ECO-FRIENDLY**

From an environmental standpoint, HDPE pipe is inert and will not readily react with other chemicals. Furthermore, the production of HDPE is far less destructive to the environment than the manufacture of different types of piping materials.

## HDPE PIPES FOR WATRED SUPPLY AS PER IS-4984 (Material Grade PE 80)

Nominal Wall Thickness (mm) for pressure Pipes

Outside Diameter	Mean O. D.		O.D. at any Point (Ovality)		Wall Thickness of PIPES FOR Pressure Rating of										
					0.60Mpa (PN 6)			1.0Mpa (PN 10)			1.25Mpa (PN 12.5)			1.60Mpa (PN 16)	
	Min	Max	Min	Max	Min	Max		Min	Max		Min	Max			
	Min	Max	Min	Max	Min	Max		Min	Max		Min	Max		Min	Max
16 MM	16.0	16.3	14.8	17.2								23		2.7	
20 MM	20.0	20.3	18.8	21.22	---	---		1.9	2.3		2.3	2.7		2.8	3.3
25 MM	25.0	25.3	23.8	26.2	---	---		2.3	2.7		2.8	3.3		3.5	4.0
32 MM	32.0	32.3	30.7	33.3	1.9	2.3		3	3.4		3.6	4.2		4.5	5.1
40 MM	40.0	40.3	38.6	41.4	2.3	2.7		3.7	4.3		4.5	5.1		5.6	6.3
50 MM	50.0	50.5	48.6	51.4	2.9	3.4		4.6	5.3		5.6	6.4		6.9	7.8
63 MM	63.0	63.6	61.5	64.5	3.6	4.2		5.8	6.6		7.0	7.9		8.7	9.8
75 MM	75.0	75.7	73.4	76.6	4.3	4.9		6.9	7.8		8.4	9.4		10.4	11.6
90 MM	90.0	90.9	88.2	91.8	5.1	5.8		8.2	9.3		10.0	11.2		12.5	13.9
110 MM	110.0	111.0	107.8	112.2	6.3	7.1		10.0	11.2		12.3	13.8		15.2	16.9
125 MM	125.0	126.2	122.5	127.5	7.1	8.0		11.4	12.8		13.9	15.5		17.3	19.2
140 MM	140.0	141.3	137.2	142.8	8.0	9.0		12.8	14.3		15.6	17.4		19.4	21.5
160 MM	160.0	161.5	156.8	163.2	9.1	10.2		14.6	16.3		17.8	19.8		22.1	24.5
180 MM	180.0	181.7	176.4	183.6	10.2	11.5		16.4	18.3		20.0	22.2		24.9	27.6
200 MM	200.0	201.8	196.0	204.0	11.4	12.7		18.2	20.3		22.3	24.7		27.6	30.6
225 MM	225.0	227.1	220.5	229.5	12.8	14.3		20.5	22.8		25.0	27.7		31.1	34.4
250 MM	280.0	252.3	245.0	255.0	14.2	15.8		22.8	25.3		27.8	30.8		34.5	38.2
280 MM	280.0	282.6	270.2	289.8	15.9	17.7		25.5	28.3		31.2	34.5		38.7	42.7
315 MM	315.0	317.9	303.9	326.1	17.9	20.0		28.7	31.8		35.0	38.7		43.5	48.0
355 MM	355.0	358.2	342.5	367.5	20.1	22.3	32.3	35.8	39.5	43.6	49.0	54.1			
400 MM	400.0	403.6	386.0	414.0	22.7	26.3	36.4	42.1	44.5	51.4	55.2	63.7			

125MM TO 400MM PRODUCE ON REQUEST

20 mm - 50 mm      Coils of 100 mtr.

63 mm - 110 mm      12 mtrs. Length plain end or As per requirements.

140 mm - 400 mm      Available on request

Length      As per requirements

Colour      Black or as per availability suitable colour pigment

**PERMANETLY LUBRICATED HDPE PIPES FOR UNDERGROUND O.F. CABLE CONDUITS As per D.O.T. (New Delhi, India)**

SIZES	Mean O. D. (mm)		Standard Length(mtr)		Wall Thickness (mm)			Maximum outer diameter(mm) of O.F cable that can be installed by blowing technique
					Min	Max		
16 MM	32.0	32.3	1000	1100	2.8	3.2		
20 MM	40.0	40.4	1000	1100	3.3	3.7		
25 MM	50.0	50.4	1000	1100	3.8	4.2		
Jockey Lines on outer surface as per requirement								
Length	Coil of1000 mtr.							
Colour	Black or as per availibilty suitable colour pigment							





# PP-R

## POLYPROPYLENE RANDOM PIPES

Lombardy Pipes produces the most extensive range of PP-R pipes using the finest grade of polypropylene random copolymers. These pipes are used for hot water and cold water supply and industrial pipelines. Random copolymer (type3) is a modification of polypropylene, which delivers better characteristics and offers continuous firmness to high temperature and pressure. The reason for PP-R pipes success primarily is in material properties. Polypropylene is entirely non-toxic; in case of contact with fire, only carbonic acid and water will escape. The material is also not sensitive to high temperature and pressure. Polypropylene pipes, in comparison with steel pipes, have much plainer inner surface and possesses minor thermal conduction. As a result, PP-R pipes exhibit lesser pressure and heat loss.

## ADVANTAGES

PP-R pipes offer a range of benefits over the conventional pipes like the pipes made of steel, cast-iron or cement. Plastic pipes have a very smooth inner wall, and hence offer little resistance to the flow of the fluid or water. Plastic pipes also have a lesser thickness and provide for greater flow volume of fluid, in comparison to the cement pipes.

## BENEFITS

### EASE OF INSTALLATION

In comparison to traditional piping systems, PP-R pipes are remarkably quick and easy to install.

### LONG LIFESPAN

Lombardy's PP-R piping systems are designed to offer over 50 years of trouble-free operability.

### LOW THERMAL CONDUCTIVITY

The thermal conductivity of PP-R is very low, thus making it possible to reduce heat losses in hot water supply and traditional heating systems.

### NON SCALING

Calcium Carbonate scaling at high temperatures reduces water flow. PP-R pipes made by Lombardy face no scaling problems.

### NO PRESSURE LOSSES

The inner surface of pipes and fittings have a limited frictional resistance. In comparison to traditional pipe systems, this enables a significant reduction in distribution pressure losses.

### RESISTANCE TO ELECTROLYSIS

The high resistivity to electrolysis of the piping system guarantees a very low electrical conductivity. There is no risk of PP-R pipe or fittings piercing due to stray currents.

## APPLICATIONS

Lombardy PP-R piping systems are particularly suitable for hot and cold water installation: residential building, offices, hotels, industrial, and commercial projects. Lombardy PP-R pipes are used with confidence in the following applications:



HEATING



AIR CONDITIONING



SANITARY &  
PLUMBING



COMPRESSED AIR



**PRODUCES**  
**NO**  
HARMFUL  
SUBSTANCES

# PP-R

## PRODUCT RANGE

Lombardy PP-R pipes are manufactured locally in Nigeria, and this enables us to increase speed in delivery and to monitor production quality that meets industry standards. Our range of PPR products is made from high-grade raw materials second to none, in conjunction with state of the art technology and machinery which handles the extrusion and injection molding processes. We offer a range of PPR products from 20 mm to 50 mm in lengths of 4 meters.



PPR Pipes		PN 20 (20Bar)	PN 16 (16Bar)	PN 10 (10Bar)
SR NO	PIPE SIZE IN MM	wall thickness (mm)	wall thickness (mm)	wall thickness (mm)
1	20	3.4	2.8	-
2	25	4.2	3.5	-
3	32	5.8	4.4	-
4	40	-	5.5	-
5	50	8.4	6.9	4.6
6	63	10.5	8.7	5.8
7	75	12.5	-	6.9
8	90	15	-	8.2
9	110	18.4	15.1	10
10	125	-	-	11.4
11	140	-	-	12.7
12	160	26.6	21.9	14.6





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