

## **ABOUT US**



## 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 humble with 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.



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 efficiency in increase our 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.



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.



## 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.

### **BENEFITS**

#### LONG LIFESPAN

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

#### EASE IN HANDLING

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

#### CORROSION RESISTANCE

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

#### **RESISTANCE TO CHEMICALS**

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

### **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.

#### LOW FRICTION

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

#### 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



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.

				PRESSU	<b>RE PIPES</b>				
Outside			N	ominal Wall Th	ickness (mm) f	or pressure Pip	pes		
Diameter	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 ММ	1.5	1.7	2.0	2.9	3.2	4.8	5.3	6.5	8.2
115 ММ	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	1	Plain End (W	ith out socket)						
40 mm - 75 mn	n	Selfit Socket	only						
90 mm - 400 m		Selfit Socket	and Pubber P	ing Joint on sui	table wall thic	kness			
		2011000000							
Length		As per requir	ements						
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 n	nm 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
) mm - 25 r	nm Selfit Socket only
ength	7 feet and above as per r
olour	

Nominal Wall Thickness (mm) for pressure Pipes											
Outside Diameter	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		1							
225 MM	4.5										

U	<b>PVC PIPES</b>	<b>AS PER ISO 44</b>	22-2		
Outside	Nominal Wall	l Thickness (mm) for p	ressure Pipes		
Diameter	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 6.6		
110 MM	2.7	4.2			
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		
nm - 400 m	m Selfi	t Socket and Rubber I	Ring Joint		
	Stand	lard 6 mtr. Or as per r	equirements		
-	Grey	or Blue			

Min         Max         Min         Max         Min         Max           10 MM         10.0         10.3         9.5         10.5			•				UPVC P	<b>IPES AS PER NIG</b>	76- 1980										
bit meter         meter         bit meter							Nominal V	Vall Thickness (mm) for pre	sure Pipes										
bank bank mM mMax mMm mMax mMm mMax mMm mMax mMm m<		Меа	10 D	OD at any P	oint (Ovality)				WORKING PRESSURE (Norminal Pressure in Bar)										
10 M       100       100       100       105       100       100       105       105       100       100       120       123       115       125       100       100       100       163       1155       100       100       100       163       1155       100       100       100       100       163       1155       100       <	Diameter			o. b. at any Point (Ovanty)		Series S 20 PN 4		Series S 12.5	Series S 12.5 PN 6		Series S 8 PN 10			Series S 5 PN					
12 MI     12.0     12.3     11.5     12.5          1.0      1.0      1.0      1.0      1.0      1.0      1.0      1.0      1.0      1.0      1.0		Min	Max	Min	Max	Min	Max	Min	Max		Min	Max		Min	Max				
16 MM16.016.315.516.5 <td>10 MM</td> <td>10.0</td> <td>10.3</td> <td>9.5</td> <td>10.5</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1.5</td> <td>1.9</td>	10 MM	10.0	10.3	9.5	10.5									1.5	1.9				
20 MM20.020.319.520.51.11.92.32.42.32.32.32.42.32.32.42.32.32.42.32.32.42.32.32.42.32.32.42.32.42.33.33.33.42.32.32.32.33.33.33.42.32.32.33.42.32.33.43.53.33.43.53.53.43.53.53.43.5 <td>12 MM</td> <td>12.0</td> <td>12.3</td> <td>11.5</td> <td>12.5</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1.9</td> <td>2.3</td>	12 MM	12.0	12.3	11.5	12.5									1.9	2.3				
25 MM       28.3       28.3       28.5       28.5            1.9       2.3       3.7       3.7       3.3       3.7           1.8       2.0       2.3       3.5       3.5          1.8       2.0       2.4       2.9       3.7       3.7       4.7       4.8       3.7       4.8       4.6       5.8       1.8       2.0       3.8       4.0       5.0       1.8       2.5       3.0       3.5       3.8       4.0       5.0       1.8       2.5       3.0       3.8       4.6       5.8	16 MM	16.0	16.3	15.5	16.5						1.5	1.9		22.3	2.8				
32.0M       32.0       32.3       31.5       32.5            40 MM       40.0       40.3       39.5       40.5            1.0       1.0       3.0       3.5       3.6       3.6       3.5       3.6       3.5       3.6       3.5       3.6       3.5       3.6       3.5       3.6       3.5       3.6       3.5       3.6       3.6       3.5       3.6	20 MM	20.0	20.3	19.5	205					_	1.5	1.9		2.3	2.8				
40 M     40.0     40.3     39.5     40.5        1.9     2.3     3.0     3.5     4.6     3.6       50 MM     50.0     50.3     40.4     50.6     1.6     2.0     2.5     3.0     3.8     4.4     5.8     6.6       63 M     65.0     63.3     62.2     63.8     1.6     2.0     2.5     3.0     3.8     4.4     5.8     6.6       75 MM     90.0     90.3     68.9     91.1     2.2     2.7     3.5     4.1     4.5     5.2     5.2     5.7     6.5     7.4     6.5     7.4     6.5     7.4     6.5     7.4     1.1.4     1.2     2.7     5.5     4.3     5.0     5.6     5.4     5.6     5.4     5.6     7.4     1.4.4     1.2     1.1.4     1.2     4.3     5.0     5.6     5.4     6.5     7.4     1.4.4     1.2     1.1.4     1.2     1.4.5     5.4     6.5     7.4     1.4.5     5.2     5.5     1.1.4     1.2     1.2     4.4     5.6     7.4     1.4.5     1.5.5     1.5.5     1.5.5     1.5.5     1.5.5     1.5.5     1.5.5     1.5.5     1.5.5     1.5.5     1.5.5     1.5.5 <td< td=""><td>25 MM</td><td>25.0</td><td>25.3</td><td>24.5</td><td>25.5</td><td></td><td></td><td></td><td></td><td>_</td><td>1.9</td><td>2.3</td><td></td><td>3</td><td>3.5</td></td<>	25 MM	25.0	25.3	24.5	25.5					_	1.9	2.3		3	3.5				
50 MM       50.0       50.3       49.4       50.6       1.6       2.0         63 MM       63.0       63.3       62.2       63.8       1.6       2.0         75 MM       75.0       75.3       74.1       75.9       1.9       2.3         90 MM       90.0       90.3       88.8       91.1       2.2       2.7       3.2       4.3       5.0       6.5       7.4         110 MM       110.0       110.4       108.6       111.4       2.7       3.2       4.3       5.0       6.5       7.4       10.0       11.1         125 MM       125.0       125.4       125.2       125.4       13.1       3.7       5.4       6.5       7.4       10.0       11.1       12.1       1.6       6.5       7.4       1.4       12.2         160 MM       160.0       160.5       138.0       162.0       4.0       4.5       5.6       6.5       7.4       1.4       12.4       12.4       14.6       16.5       1.6       1.6.4       18.0       16.5       1.6.1       1.6.4       18.0       1.6.5       1.6.4       18.0       1.6.5       1.6.5       1.6.4       1.6.5       1.6.5       1.6.5       1.	32 MM	32.0	32.3	31.5	32.5			1.6	2.0		2.4	2.9		3.7	4.3				
63 MM       63.0       63.3       62.2       63.8       1.6       2.0         75 MM       75.0       75.3       74.1       75.9       1.9       2.3       3.0       3.4       4.5       5.2       6.9       7.7         90 MM       90.0       90.3       88.9       91.1       2.2       2.7       3.5       4.1       4.5       5.2       6.5       7.4       6.2       9.5       6.5       7.4       8.4       1.0       1.0       10.0       10.06       11.4       2.7       3.5       4.1       4.9       5.6       7.4       8.4       1.4       1.2       4.9       5.6       7.4       8.4       1.0       11.4       1.1       <	40 MM	40.0	40.3	39.5	40.5			1.9	2.3	_	3.0	3.5		4.6	5.3				
75 MM     75.0     75.3     74.1     75.9     1.9     2.3       90 MM     90.0     90.3     88.9     91.1     2.2     2.7       3.5     4.1     10.0     110.4     108.6     111.4     2.7     3.2       110 MM     125.0     125.4     125.5     125.5     126.5     3.1     3.7       140 MM     140.0     140.5     138.3     141.7     3.5     4.1       160 MM     160.0     160.5     158.0     162.0     4.0     4.6       200 MM     200.0     180.6     177.8     182.2     4.4     5.1       200 MM     200.0     205.6     197.6     223.0     6.1     7.0       225 MM     225.0     225.7     223.3     227.7     5.5     6.3       226 MM     280.0     280.3     247.0     253.0     6.1     7.0       315 MM     315.0     316.0     311.2     318.8     7.7     8.7       325 MM     280.0     280.3     26.4     9.8     11.0       315 MM     315.0     316.0     311.2     318.8     7.7     8.7       326 MM     280.0     280.7     359.3     8.7     9.8       135 MM	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				
90 MM       90.0       90.3       86.9       91.1       2.2       2.7       3.5       4.1       5.3       6.1       8.2       9.9         10 MM       10.0       100.4       108.6       111.4       2.7       3.2       3.5       4.1       4.3       5.0       6.5       7.4       10.0       11.4       12.7       3.2       4.3       5.0       6.5       7.4       8.4       11.4       12.7       3.2       4.3       5.0       6.5       7.4       8.4       11.4       12.7       3.2       4.3       5.0       6.5       7.4       8.4       11.4       12.8       14.0       14.0       10.0       16.0       16.0       16.0       10.0       11.4       12.1       13.6       8.3       9.4       13.3       14.1       12.8       14.1       14.6       16.6       16.0       10.0       11.0       16.6       11.9       16.6       11.9       16.4       18       12.2       14.4       5.1       7.7       8.7       13.3       14.9       20.0       20.0       10.0       11.3       13.3       14.9       20.5       22.2       22.7       22.3       22.7       23.5       6.1       7.0       9.7	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				
10 MM       10.0       110.4       106.6       111.4       2.7       3.2       4.3       5.0       6.5       7.4       10.0       11.1         125 MM       125.0       125.4       123.5       126.5       3.1       3.7       4.9       5.6       7.4       8.4       11.4       12.2         140 MM       140.0       140.5       138.3       141.7       3.5       4.1       5.4       6.2       7.1       7.4       8.4       11.4       12.8       14.6       16.0       160.5       158.0       162.0       4.0       4.6       6.2       7.1       9.5       10.7       14.6       16.6       11.4       12.8       14.4       12.8       14.4       14.6       16.2       7.1       9.5       10.7       10.6       11.9       16.4       18.2       20.0       125.0       225.7       222.3       227.7       5.5       6.3       8.7       9.8       13.3       14.9       16.2       22.7       22.5       22.7       25.0       22.7       25.3       6.1       7.0       9.7       10.9       14.8       16.5       18.2       20.5       22.7       25.5       28       23.5       13.3       14.9       22.5	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				
125 MM       125.4       125.5       3.1       3.7       3.7       4.9       5.6       7.4       8.4       11.4       12.8       11.6       12.8       11.8       12.8       11.8       12.8       11.6       12.8       11.6       12.7       12.8 <t< td=""><td>90 MM</td><td>90.0</td><td>90.3</td><td>88.9</td><td>91.1</td><td>2.2</td><td>2.7</td><td>3.5</td><td>4.1</td><td>_</td><td>5.3</td><td>6.1</td><td></td><td>8.2</td><td>9.3</td></t<>	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				
140 MM       140.0       140.5       138.3       141.7       3.5       4.1         160 MM       160.0       160.5       158.0       162.0       4.0       4.6         180 MM       180.0       180.6       177.8       182.2       4.4       5.1         200 MM       200.0       200.6       197.6       202.4       4.9       5.6         225 MM       225.0       225.7       222.3       227.7       5.5       6.3         280 MM       280.0       250.8       247.0       253.0       6.1       7.0         315 MM       315.0       316.0       311.2       318.8       7.7       8.7         315 MM       355.0       356.1       350.7       359.3       8.7       9.8         400 MM       400.0       401.2       395.2       404.8       9.8       11.0         Volce       23.6       26.2       36.4       40         Hain End (With out socket)         Unitering colspan="4">Volce       33.3       36         Selfit Socket only       Selfit Socket only       Selfit Socket only Selfit Socket only Selfit Socket only Selfit Socket only Selfit Socket only Selfit Socket only Selfit Socket only Selfit Socket only<	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				
160 MM       160.0       160.5       158.0       162.0       4.0       4.6         180 MM       180.0       180.6       177.8       182.2       4.4       5.1         200 MM       200.0       200.6       197.6       202.4       4.9       5.6         225 MM       225.0       225.7       222.3       227.7       5.5       6.3         250 MM       280.0       250.8       247.0       253.0       6.1       7.0       7.9         10.8       11.3       13.2       14.6       16.4       18         250 MM       280.0       250.8       247.0       253.0       6.1       7.0         10.8       12.1       13.6       16.5       184.4       16.5         280 MM       280.0       250.8       247.0       253.0       6.1       7.0         315 MM       355.0       356.1       350.7       359.3       8.7       9.8       10.8       12.1       13.6       20.9       23.2       33.3       36         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	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				
180 MM       180.0       180.6       177.8       182.2       4.4       5.1         200 MM       200.0       200.6       197.6       202.4       4.9       5.6         225 MM       225.0       225.7       222.3       227.7       5.5       6.3         250 MM       280.0       250.8       247.0       253.0       6.1       7.0       7.9         280 MM       280.0       280.9       276.6       283.4       6.9       7.8       10.8       12.1       13.3       14.9       22.5.7       22.7       25.5       28       20.7       8.7       9.8       16.5       18.4       16.5       22.7       25.5       28       28.7       33.3       16.9       7.8       10.8       12.1       13.6       16.5       18.4       20.5       28.7       33.3       36       20.9       23.2       33.3       36       26.0       23.6       26.2       33.3       36       33.3       36       34.4       35.9       38.8       11.0       15.4       17.2       23.6       26.2       33.3       36         35 MM       355.0       356.1       350.7       359.3       8.7       9.8       15.4       17.2	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				
200 MM       200.0       200.6       197.6       202.4       4.9       5.6         225 MM       225.0       225.7       222.3       227.7       5.5       6.3         250 MM       280.0       250.8       247.0       253.0       6.1       7.0         280 MM       280.0       280.9       276.6       283.4       6.9       7.8         315 MM       315.0       316.0       311.2       318.8       7.7       8.7       13.6       18.4       16.5       18.4         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         400 MM       400.0       401.2       395.2       404.8       9.8       11.0       15.4       17.2       23.6       26.2       36.4       400         United With out socket)         United With out socket) <td colspan="4" td="" united<=""><td>160 MM</td><td>160.0</td><td>160.5</td><td>158.0</td><td>162.0</td><td>4.0</td><td>4.6</td><td>6.2</td><td>7.1</td><td>_</td><td>9.5</td><td>10.7</td><td></td><td>14.6</td><td>16.3</td></td>	<td>160 MM</td> <td>160.0</td> <td>160.5</td> <td>158.0</td> <td>162.0</td> <td>4.0</td> <td>4.6</td> <td>6.2</td> <td>7.1</td> <td>_</td> <td>9.5</td> <td>10.7</td> <td></td> <td>14.6</td> <td>16.3</td>				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
225 MM       225.7       222.3       227.7       5.5       6.3         250 MM       280.0       250.8       247.0       253.0       6.1       7.0         280 MM       280.0       280.9       276.6       283.4       6.9       7.8         315 MM       315.0       316.0       311.2       318.8       7.7       8.7         355 MM       355.0       356.1       350.7       359.3       8.7       9.8       13.7       15.3       16.5       18.4       28.7       33.3       36         400 MM       400.0       401.2       395.2       404.8       9.8       11.0       15.4       17.2       23.6       26.2       36.4       400         7       9.7       10.9       15.4       17.2       23.6       26.2       36.4       400         90 mm - 32 mm       Plain End (With out socket)	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				
250 MM       280.0       250.8       247.0       253.0       6.1       7.0         280 MM       280.0       280.9       276.6       283.4       6.9       7.8         315 MM       315.0       316.0       311.2       318.8       7.7       8.7         355 MM       355.0       356.1       350.7       359.3       8.7       9.8         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         40 mm - 32 mm       Plain End (With out socket)       90 mm - 400 mm       Selfit Socket only       90 mm - 400 mm       Selfit Socket o all series and Rubber Ring Joint on above PN 6       90 mm - 400 mm       Selfit Socket o all series and Rubber Ring Joint on above PN 6	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				
280 MM       280.0       280.9       276.6       283.4       6.9       7.8         315 MM       315.0       316.0       311.2       318.8       7.7       8.7         355 MM       355.0       356.1       350.7       359.3       8.7       9.8         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         20 mm - 32 mm       Plain End (With out socket)	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				
315 MM       315.0       316.0       311.2       318.8       7.7       8.7       12.1       13.6       18.6       20.7       28.7       31.2         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         400 MM       400.0       401.2       395.2       404.8       9.8       11.0       15.4       17.2       23.6       26.2       26.4       40         20 mm - 32 mm       Plain End (With out socket)	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				
355 MM       356.1       350.7       359.3       8.7       9.8       13.7       15.3       20.9       23.2       33.3       36         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         20 mm - 32 mm       Plain End (With out socket)	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				
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         20 mm - 32 mm       Plain End (With out socket)	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				
20 mm - 32 mm Plain End (With out socket) 40 mm - 75 mm Selfit Socket only 90 mm - 400 mm Selfit Socket o all series and Rubber Ring Joint on above PN 6	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				
40 mm - 75 mm Selfit Socket only 90 mm - 400 mm Selfit Socket o all series and Rubber Ring Joint on above PN 6	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				
90 mm - 400 mm Selfit Socket o all series and Rubber Ring Joint on above PN 6	20 mm - 32 mn	n	Plain End (W	(ith out socket)															
	0 mm - 75 mr	n	Selfit Socket	t only															
Length As per requirements	90 mm - 400 n	nm	Selfit Socket	t o all series an	d Rubber Ring	Joint on above	e PN 6												
	.ength		As per requi	rements															
Colour Grey or Blue or Off white	Solour			or Off white															

## 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.

### **BENEFITS**

#### WEATHER RESISTANCE

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

#### CHEMICAL RESISTANCE

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

#### EASE OF HANDLING

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

#### STRENGTH & FLEXIBILITY

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

### **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 it's non toxic nature, a long lifespan and its applications in trench-less installations.

#### RESISTANCE TO ABRASION

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

#### 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)



#### WATER SUPPLY

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



#### INDUSTRIAL USAGE, EFFLUENT DISPOSAL AND SEWAGE

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



#### DUCTING

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



#### BUILDINGS

**Conduits for Cables** 



#### DRAINAGE PIPES

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

WE PRODUCE **HDPE PIPES** FROM upto 



FRIENDLY

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 PIP	ES FOR V	VATRER	UPPLY AS	PER IS-	4984 (Ma	terial Gra	de PE 80)		•	•	
						Nominal	/all Thickness (r	mm) for press	sure Pipes						
Outside	Мор	n O. D.	O D at any D	oint (Ovality)				W	/all Thickness	of PIPES FOR Pr	essure Rating	of			
Diameter	Medi			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	Мах
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 40	OMM PRODUCI	E ON REQUEST
20 mm - 50 mi	m	Coils of 100	mtr.												
63 mm - 110 m	m	12 mtrs. Len	gyth palin end	or As per requi	ments.										
140 mm - 400	mm	Available o	n request												
Longth		Ac not ro	romonto												
Length		As per requi	rements												
Colour		Black or as p	er availibiltv su	uitable colour p	igment										

PERMANI	ETLY LUBR		PE PIPES FO	OR UNDER	GROUND O.I	F. CABLE CO	ONDUITS As per D.O.T. (New Delhi, India)
SIZES	SIZES Mean O. D. (mm)		Standard I	Length(mtr)	Wall Thick	mess (mm)	
					Min	Мах	Maximum outer diameter(mm) of O.F cable that can be installed by blowing technique
16 MM	32.0	32.3	1000	1100	2.8	3.2	12 mm
						·	
20 MM	40.0	40.4	1000	1100	3.3	3.7	16 mm
						•	
25 MM	50.0	50.4	1000	1100	3.8	4.2	22 mm
Jockey Lines on ou	uter surface as pe	er requirement					
Length	Coil c	of 1000 mtr.					
Colour	Black	or as per availibil	ty suitable colour	pigment			

						all Series					DN
DN						PRESSURE					
	PN 2.5		PN 4		PN 6		PN			16	
	Wall Thickness (mm) Min.	Nominal Bore(mm)Max									
20 MM					1.8	16.4	1.9	16.2	2.8	14.4	20 M N
25 MM					1.8	21.4	2.3	20.4	3.5	18	25 M M
32 MM					1.9	28.2	3	26	4.5	23	32 M N
40 MM					2.3	3.4	3.7	32.6	5.6	28.8	40 M M
50 MM	1.8	46.4	2	42.4	2.9	36.6	4.6	37.2	6.9	36.2	50 M N
63 MM	1.8	59.4	2.5	54.4	3.6	47.2	5.8	47.8	8.7	45.6	63 M N
75 MM	1.9	71.2	2.9	65.4	4.3	56.8	6.9	57.4	10.4	54.2	75 M N
90 M M	2.2	85.6	3.5	78.6	5.1	68.4	8.2	69.2	12.5	65	90 MN
110 MM	2.7	104.6	4.3	96	6.3	83.4	10.0	84.6	15.2	79.6	110 MN
125 MM	3.1	118.8	4.9	109	7.1	94.8	11.4	96	17.2	90.6	125 M N
140 MM	3.5	133	5.4	122.2	8	106.2	12.8	107.4	19.4	101.2	140 M
160 MM	3.9	152.2	6.2	139.8	9.1	141.8	14.6	123	22.1	115.8	160 MI
180 MM	4.4	171.2	7	157.2	10.2	136.8	16.4	138.4	24.9	130.2	180 MI
200 MM	4.9	190.2	7.7	174.8	11.4	152	18.2	153.8			200 M
225 MM	5.5	214	8.7	196.6	12.8	171	20.5	173			225 MI
250 MM	6.1	237.8	9.7	218.4	14.2	190	22.8	192.2			250 MI
280 MM	6.9	266.2	10.8	244.6	15.9	212.8	25.5	215.2			280 MI
	7.7	299.6	12.2	275.2	17.9	239.4	28.7	242.2			315 MN

## **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.

## 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.

### **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.

#### 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

18, Idiroko Road, Sango -Otta, Ogun State, Nigeria.

+234

+234 815 349 2919

info@lombardypipes.com



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www.lombardypipes.com