



# Lifeline to your farmland

**PVC AGRICULTURAL PIPES AND FITTINGS**



# PVC AGRICULTURAL PIPES AND FITTINGS



Spectra's PVC Agricultural Pipes and Fittings offer a wide range of sizes and pressure classes to provide the ideal solution for water supply. With the various advantages over metal piping systems, they remain as the preferred choice of pipes for applications like agriculture, irrigation, water supply, etc.

## FEATURES & BENEFITS



Smooth Bore Ensures Higher Flow



Excellent Chemical & Corrosion Resistance



Long Life & Maintenance Free



Light Weight & Easy to Handle

## Product Range

Pipes	20mm to 315mm
Fittings	20mm to 315mm

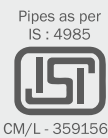
## Standards

Pipes	IS 4985
Fittings	IS 7834

## Applications

- Agricultural applications like water supply, distribution schemes and irrigation
- Drinking water supply and distribution
- Cable ducting
- Ventilation pipelines
- Slurry lines

## Dimensions of PVC Agri Pipes as per IS 4985: 2000



Nominal Outside Diameter (D)	Tolerance on Outside Diameter	Wall Thickness (t) in mm									
		Class 1 - 2.5 kgf/cm <sup>2</sup>		Class 2 - 4 kgf/cm <sup>2</sup>		Class 3 - 6 kgf/cm <sup>2</sup>		Class 4 - 10 kgf/cm <sup>2</sup>		Plumbing Pipes	
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
20	0.3							1.1	1.5	2.8	3.3
25	0.3							1.4	1.8	2.9	3.4
32	0.3							1.8	2.2	3.4	3.9
40	0.3					1.4	1.8	2.2	2.7	3.6	4.2
50	0.3					1.7	2.1	2.8	3.3	3.7	4.3
63	0.3			1.5	1.9	2.2	2.7	3.5	4.1		
75	0.3			1.8	2.2	2.6	3.1	4.2	4.9		
90	0.3	1.3	1.7	2.1	2.6	3.1	3.7	5.0	5.7		
110	0.4	1.6	2.0	2.5	3.0	3.7	4.3	6.1	7.1		
140	0.5	2.0	2.4	3.2	3.8	4.8	5.5	7.7	8.9		
160	0.5	2.3	2.8	3.7	4.3	5.4	6.2	8.8	10.2		
180	0.6	2.6	3.1	4.2	4.9	6.1	7.1	9.9	11.4		
200	0.6	2.9	3.4	4.6	5.3	6.8	7.9	11.0	12.7		
225	0.7	3.3	3.9	5.2	6.0	7.6	8.8	12.4	14.3		
250	0.8	3.6	4.2	5.7	6.5	8.5	9.8	13.8	15.9		
280	0.9	4.1	4.8	6.4	7.4	9.5	11.0	15.4	17.8		
315	1.00	4.6	5.3	7.2	8.3	10.7	12.4	17.3	19.9		

### HEAD OFFICE



# Designed for dependable drainage

**SWR DRAINAGE SYSTEMS**



# SWR DRAINAGE SYSTEMS

Spectra's SWR drainage systems are built for quick and effective removal of soil, waste and rainwater without leakage. It's highly resilient and durable feature gives a long service life. They are available in Solvent type and Ring type jointing system that is widely used in residential and commercial settings.



## FEATURES & BENEFITS



Smooth Bore Ensures Higher Flow



Excellent Chemical & Corrosion Resistance



Long Life & Maintenance Free



Cost Effective

## Product Range

Pipes	75mm to 160mm
Fittings	75mm to 110mm

## Standards

Pipes	IS 13592
Fittings	IS 14735

## Applications

- Complete drainage and ventilation systems for buildings
- Rain water discharge & harvesting for residential, complexes & commercial spaces
- Industrial buildings
- Public utilities

## Dimensions of SWR Drainage Systems

Pipes as per IS : 13592



CM/L - 4451659

Fittings as per IS : 14735



CM/L - 6200016683

Nominal Outside Diameter (D) in mm	Tolerance on Outside Diameter in mm	Wall Thickness Type-A (t) in mm		Wall Thickness Type-B (t) in mm	
		Min	Max	Min	Max
75	+0.3	1.8	2.2	3.2	3.8
90	+0.4	1.9	2.3	3.2	3.8
110	+0.4	2.2	2.7	3.2	3.8
160	+0.5	3.2	3.8	4.0	4.6

### HEAD OFFICE



# Crafted for a heated flow

**CPVC PLUMBING SYSTEMS**

# CPVC PLUMBING SYSTEMS

Spectra CPVC plumbing systems are manufactured with the best raw materials and strict quality control in production, which gives these products very high consistency, making them ideal for both hot and cold water distribution.



## FEATURES & BENEFITS



Withstands Temperature of up to 93° Celcius



Low Thermal Conductivity



Strong & Durable



UV Resistant

## Product Range

Pipes	3/4" to 2"
Fittings	3/4" to 2"

## Standards

Pipes	IS 15778
Fittings	ASTM D 2846

## Applications

- Indoor and outdoor use for hot and cold water applications (up to 93°C)
- RO and DM water plants
- For concealed, down take & terrace looping
- Residential and commercial buildings
- Public utilities, swimming pools & industrial applications

## Dimension of CPVC Pipes

Pipes as per IS : 15778



CM/L - 4796289

For Fittings



ASTM D 2846

Nominal Size		Outer Diameter (D) in mm		SDR 11 - Class 1				SDR 13.5 - Class 2			
				Wall Thickness (t) in mm		Working Pressure at		Wall Thickness (t) in mm		Working Pressure at	
MM	Inch	Min	Max	Min	Max	27°C	82°C	Min	Max	27°C	82°C
20	¾"	22.1	22.3	2.00	2.50	27.60	6.80	1.70	2.20	21.80	5.50
25	1"	28.5	28.7	2.60	3.10	27.60	6.80	2.10	2.60	21.80	5.50
32	1¼"	34.8	35.0	3.20	3.70	27.60	6.80	2.60	3.10	21.80	5.50
40	1½"	41.2	41.4	3.80	4.30	27.60	6.80	3.10	3.60	21.80	5.50
50	2"	53.9	54.1	4.90	5.50	27.60	6.80	4.00	4.60	21.80	5.50

### HEAD OFFICE



# An all-rounder in varied applications

UPVC PLUMBING SYSTEMS



# UPVC PLUMBING SYSTEMS

Spectra's uPVC plumbing system is perfectly suited for applications that involve the transportation and distribution of water at high pressure, making it the most durable and cost-effective solution for a wide variety of industrial, commercial and residential settings.



## FEATURES & BENEFITS



Lead Free – Safe for Potable Water Distribution



Strong and Durable



UV Resistant



Excellent Chemical & Corrosion Resistance

## Product Range

Pipes	1/2" to 2"
Fittings	1/2" to 2"

## Standards

Pipes	ASTM D 1785
Fittings	ASTM D 2467

## Applications

- Indoor and outdoor cold water applications
- Residential complexes, commercial buildings, public utilities and swimming pools
- RO and DM water plants
- For concealed, down take & terrace looping

## Dimension of uPVC Plumbing systems

pressure rating at 23°C as per ASTM D-1785



Nominal Bore		Outside Diameter (D) in mm	Schedule 40			Schedule 80		
			Wall Thickness (t)	Working Pressure		Wall Thickness (t)	Working Pressure	
MM	Inch	MM	MM	Kgf/cm <sup>2</sup>	psi	MM	Kgf/cm <sup>2</sup>	psi
15	½"	21.34±0.10	2.77±0.51	41.4	600	3.73±0.51	58.6	850
20	¾"	26.67±0.10	2.87±0.51	33.1	480	3.91±0.51	47.6	690
25	1"	33.40±0.13	3.38±0.51	31.0	450	4.55±0.53	43.4	630
32	1¼"	42.16±0.13	3.56±0.51	25.5	370	4.85±0.58	35.9	520
40	1½"	48.26±0.15	3.68±0.51	22.8	330	5.08±0.61	32.4	470
50	2"	60.32±0.15	3.91±0.51	19.3	280	5.54±0.66	27.6	400

### HEAD OFFICE



# Reaching down to every root



**DRIP IRRIGATION SYSTEM**

# DRIP IRRIGATION SYSTEM

Spectra's Drip Irrigation Lateral Pipes are manufactured from virgin polyethylene using advanced automated machinery. They utilize the concept of targeted application of water, fertilizers and chemicals directly to the plant roots to improve yield and quality.



## FEATURES & BENEFITS



Black Colour Laterals for UV Stabilization and No Environmental Effects



Manufactured Using State-of-the-Art Extrusion Technology



Durable Laterals with Minimum Dimensional Tolerances



Minimized Frictional Losses

## Standards

Drip Irrigation Emitting Pipes	IS 13488
Drip Irrigation Laterals	IS 12786

## Product Range

Drip Irrigation Emitting Pipes	12mm to 25mm
Drip Irrigation Laterals	12mm to 32mm

## Applications

- Farms
- Green houses

Inline Drip Irrigation Laterals  
IS : 13488



Online Drip Irrigation Laterals  
IS 12786



### Drip Irrigation Emitting Pipes

Sl. No.	Nominal Diameter	Inside Diameter	Tolerance on I.D	Wall Thickness			
				Class 1 0.100 MPa	Class 2 0.125 MPa	Class 3 0.250 MPa	Class 4 0.400 MPa
1	12	10.50	+ 0.20	0.4 - 0.5	0.6 - 0.7	0.8 - 1.0	1.1 - 1.3
2	16	14.20	+ 0.20	0.5 - 0.6	0.7 - 0.9	1.0 - 1.2	1.3 - 1.5

### Drip Irrigation Laterals

Outside Diameter	Tolerance On Outside Diameter	Class 1 0.25 MPa		Class 2 0.4 Mpa		Class 3 0.6 Mpa	
		Min	Max	Min	Max	Min	Max
12	+ 0.3	1.0	1.2	1.1	1.3	1.4	1.6
16	+ 0.3	1.2	1.4	1.4	1.6	1.8	2.0

Note: Wall thickness of pipes are based on a safe working stress of 2.5 Mpa at 20°C. Occasional rise in temperature has no deleterious effects on the life and working pressure of the pipes.

#### HEAD OFFICE

www.spectrapipes.com



# For a cleaner neighbourhood

PVC UNDERGROUND DRAINAGE SYSTEMS



# PVC UNDERGROUND DRAINAGE SYSTEMS



Spectra's Underground Drainage pipes are designed to carry soil and waste from building to roadside sewers or drains and to treatment plants or disposal points. They are most suited for rainwater collection and disposal, as they are 100% watertight preventing ingress and seepage of water.

## FEATURES & BENEFITS



Designed for Underground Installations



Strong & Durable



Light Weight & Easy to Handle



Leak Proof Joints

## Product Range

Pipes 63mm to 315mm

## Standards

Pipes IS 15328

## Applications

Drainage systems in;

- Single house to multi-floor buildings
- Shopping malls
- Hospitals
- Hotels
- Rain water disposal and harvesting

## Dimensions and stiffness class of underground drainage pipes as per IS 15328 : 2003

Pipes as per IS : 15328



CM/L - 6200038895

Nominal Ring Stiffness SN (KN/m <sup>2</sup> )	2	4	8
SDR	51	41	34
OD mm (D)	Wall Thickness in mm (t)		
110	-	-	3.2+0.5
160	3.2+0.5	4.0+0.6	4.7+0.7
200	3.9+0.6	4.9+0.7	5.9+0.8
250	4.9+0.7	6.2+0.8	7.3+1.0
315	6.2+0.8	7.7+1.0	9.2+1.2

### HEAD OFFICE



# Bringing blossoms to your garden

**GARDEN HOSE**



# GARDEN HOSE

Spectra's Garden Hoses are made from the highest quality PVC compound ensuring exceptional clarity and durability. With extra flexibility, these hoses facilitate bending and pulling making it as the ideal solution for gardening and other everyday application.



## FEATURES & BENEFITS



Light Weight & Easy to Handle



Excellent Chemical & Corrosion Resistance



Easy to Clean Surface



Very Flexible and Durable

## Product Range

1/2" to 1"

## Standards

As per Company Standard

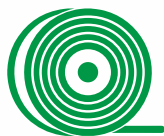
## Applications

- Gardening, general water transportation, water connections & other daily applications
- Domestic pesticide & water spraying
- It finds application in automobiles & laboratories

### Dimensions

Sl.No.	STD. SIZE in inches	STD. Pack	WEIGHT in kgs/30 mtr roll		Rate/Kg
1	1/2"	5	2.75	3.5	120
2	3/4"	5	4.5	5.5	120
3	1	5	6.5	8	120

## Colors



### HEAD OFFICE



# A reservoir to your daily needs

**WATER STORAGE TANKS**



# WATER STORAGE TANKS

Spectra's Water Storage Tanks are manufactured with virgin raw materials that ensure the tanks have a uniform wall thickness and a long service life. It offers a variety of UV stabilized colour options suitable for domestic as well as commercial applications for water storage.



## FEATURES & BENEFITS



Unique Threaded Lid



Made from Virgin Food Grade Material



Resistant to Fungus and Bacterial Growth



Impact & Crack Resistant

## Product Range

300 Ltrs to 2000 Ltrs

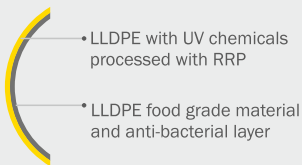
## Standards

Company standard – 2 layer & 3 layer

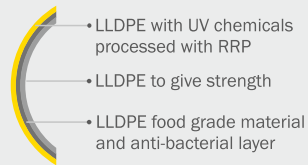
## Applications

- Independent houses
- General and commercial buildings
- Transport and logistic yards
- Defense facilities
- Industrial buildings
- Agricultural buildings for farming livestock

### Cross-section of 2 layer water tank



### Cross-section of 3 layer water tank



### Product Dimensions in mm

Sr. No.	Manhole OD in mm	Diameter in mm	Height in mm
1	425	730	825
2	425	890	930
3	425	1000	1100
4	425	1100	1210
5	425	1250	1390
6	425	1350	1520

## Colors



### HEAD OFFICE

No.21, Kumara Krupa Road, Opp. Hotel Solitaire, Bengaluru - 560 001 | Ph: 080 - 4266 0000 | E: contact@spectrapipes.com