



# **uPVC Agriculture Piping Systems**

# About Edoburg

Edoburg is a structured, multi-category global supplier of certified infrastructure materials, serving contractors, distributors, and institutional buyers across regulated global markets. A division of **Edoburg Downes Pvt. Ltd.**, the company operates with a clear focus on tested quality, export compliance, and long-term delivery consistency.

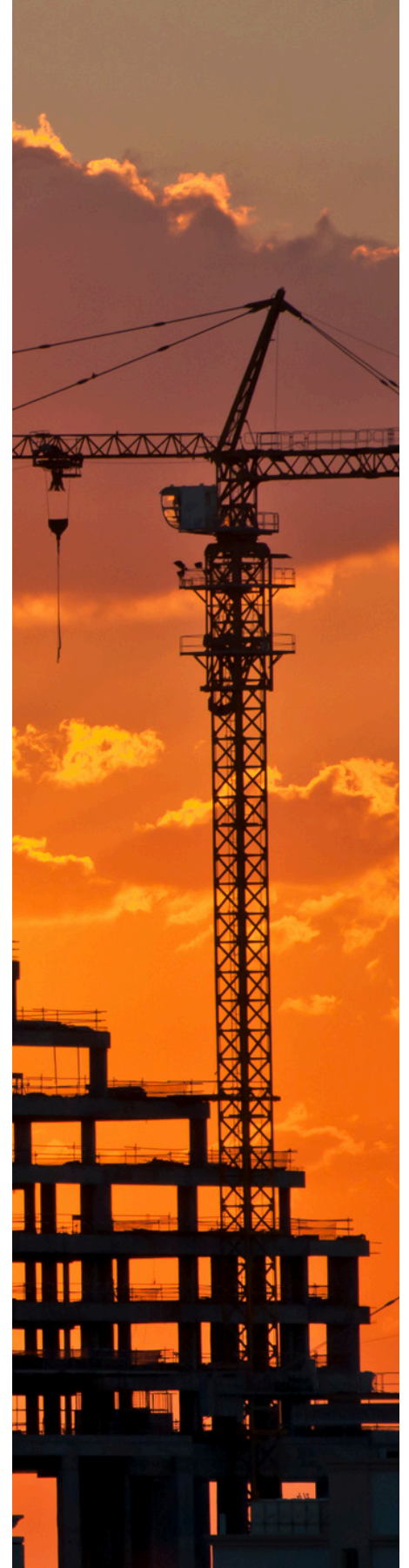
Our product portfolio spans over 10,000 SKUs across a wide range of categories including plastic piping systems, thermoplastic and composite pipelines, metal pipes and sections, drainage and utility systems, industrial components, and specialized engineered solutions for global projects.

All Edoburg-supplied products are manufactured in audited facilities and conform to international standards such as ASTM, CSA, ISO, IS, AS/NZS, and EN, depending on the target market. Each order is backed by full documentation support — including batch test reports, packing lists, Certificates of Origin, and private labelling when required.

We operate with export-ready processes, offering mixed container loads, low or no minimum order quantity, and market-specific packaging and compliance labelling. Our systems are designed to meet the expectations of professional buyers who require traceability, repeatability, and standardization across multiple geographies.

With clients across North America, Europe, the Middle East, Africa, and Asia-Pacific, Edoburg is positioned as a dependable global supplier — combining technical competence with structured commercial execution.

We don't just deliver material. **We supply what builds.**



# EDOBURG

SUPPLY WHAT BUILDS



# Why Edoburg uPVC Agriculture Piping Systems?

Edoburg supplies high-performance, lead-free uPVC piping systems specifically engineered for agricultural applications. Designed for long-term field performance, these systems ensure high strength, reliable water conveyance, and minimal maintenance across diverse terrain and climate conditions.

## **Corrosion & Chemical Resistance**

Resistant to corrosion from soil chemicals, fertilizers, and saline water—ideal for agricultural and borewell use.

## **Lightweight, Easy to Install**

Simplified handling in remote field locations. Requires no heavy machinery for transport or installation.

## **High Impact & Pressure Strength**

Manufactured to IS 4985 and IS 12818 standards. Suitable for irrigation mains, risers, and column pipes for submersible pumps.

## **Leak-proof Solvent Weld & Threaded Jointing**

Ensures consistent water pressure with minimal loss—critical for effective irrigation.

## **UV Stabilized for Outdoor Use**

Suitable for prolonged exposure to sunlight and variable weather without degradation.

## **Low Friction Loss & Smooth Bore**

Supports higher flow efficiency and reduces pumping energy requirements.

## **Long Service Life with Minimal Maintenance**

Proven durability in high-usage zones with reduced replacement cycles.

## **Wide Range of Sizes & Pressure Ratings**

Available in multiple diameters and pressure classes (Class 2 to Class 6) for surface and underground agricultural applications.

# Fields of Applications

Edoburg uPVC Agriculture Piping Systems are designed to perform reliably in demanding agricultural environments. Their corrosion resistance, structural strength, and ease of installation make them ideal for a wide variety of rural and irrigation-based water management systems, including:

## **Irrigation Mains and Sub-mains**

For efficient distribution of water across agricultural fields using surface or underground networks.

## **Borewell and Submersible Pump Installations**

Column pipes and casing pipes suitable for deep and shallow wells.

## **Drip and Sprinkler Irrigation Systems**

Compatible with modern irrigation techniques requiring consistent pressure and leak-free performance.

## **Rural Drinking Water Supply Lines**

Safe for potable water transport in farms, villages, and rural communities.

## **Agricultural Drainage Systems**

Used for controlled removal of excess water from farmland, ensuring optimal crop yield.

## **Greenhouse and Horticulture Watering Networks**

Precision water delivery for controlled environments and specialized crops.

## **Livestock Watering Infrastructure**

Durable pipelines for supplying clean water to cattle sheds, poultry farms, and dairies.

# Properties of uPVC Agriculture Piping Systems

Pressure & Non-Pressure Pipes are manufactured in accordance with IS:4985 covering a complete range from 20 mm to 400 mm. They are available in pressure rating 2.5 Kg/cm<sup>2</sup>, 4 Kg/cm<sup>2</sup>, 6 Kg/cm<sup>2</sup>, 8 Kg/cm<sup>2</sup>, 10 Kg/cm<sup>2</sup>, 12.5 Kg/cm<sup>2</sup> & 16 Kg/cm<sup>2</sup> as defined in IS:4985. The pipes are provided with plain socket and suitable for solvent cement jointing.

Their main application is in agriculture for water supply, drip irrigation & sprinkler lines etc. as well as for drinking water distribution. However, these can also be used in cable ducting, ventilation pipe lines & slurry lines etc.

They are available in light grey colour and nominal length of 6 mtrs.

## Pipes

20 to 400 mm

## Fittings

- 20 to 250 mm

Category	Pipes	Fittings
Size (mm)	20 to 400	20 to 250
Working Pressure (Kg/cm <sup>2</sup> )	2.5, 4, 6, 8, 10 & 12.5	4, 6, 10 & 16
Standard	IS 4985	IS 7834
End Connection	Solvent Joint	Solvent Joint, Threads (For transition fittings)

## Features and benefits

- Light weight, easy to transport, store, handle and install. Saves labour.
- Smooth bore ensures higher flow compared to G.I pipes and fittings of the same size. No clogging. Saves operational cost.
- Solvent cement joint therefore quick installation.
- Corrosion resistance, UPVC is rustproof material therefore bore diameter remains constant, ensuring constant flow over a lifetime.
- Long working life (if operated under normal / recommended working conditions).
- Cost effective. Added value for your money.

# Dimension of uPVC Agriculture Piping Systems

Nominal Outside Diameter (Nominal Size)	Mean Outside Diameter		Wall Thickness												Mean Socket Internal Diameter of Mid Point of Socket Length	
			Class 1 0.25 MPa 2.5 Kg/cm2		Class 2 0.40 MPa 4.0 Kg/cm2		Class 3 0.60 MPa 6.0 Kg/cm2		Class 4 0.80 MPa 8.0 Kg/cm2		Class 5 1.00 MPa 10.0 Kg/cm2		Class 6 1.25 MPa 12.5 Kg/cm2			
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
20	20	20.3	-	-	-	-	-	-	-	-	1.1	1.5	1.4	1.8	20.1	20.3
25	25	25	-	-	-	-	-	-	1.2	1.6	1.4	1.8	1.7	2.1	25.1	25.3
32	32	32.3	-	-	-	-	-	-	1.5	1.9	1.8	2.2	2.2	2.7	32.1	32.3
40	40	40.3	-	-	-	-	1.4	1.8	1.8	2.2	2.2	2.7	2.8	3.3	40.1	40.3
50	50	50.3	-	-	-	-	1.7	2.1	2.3	2.8	2.8	3.3	3.4	4	50.1	50.3
63	63	63.3	-	-	1.5	1.9	2.2	2.7	2.8	3.3	3.5	4.1	4.3	5	63.1	63.3
75	75	75.3	-	-	1.8	2.2	2.6	3.1	3.4	4	4.2	4.9	5.1	5.9	75.1	75.3
90	90	90.3	1.3	1.7	2.1	2.6	3.1	3.7	4	4.6	5	5.7	6.1	7.1	90.1	90.3
110	110	110.4	1.6	2	2.5	3	3.7	4.3	4.9	5.6	6.1	7.1	7.5	8.7	110.1	110.4
125	125	125.4	1.8	2.2	2.9	3.4	4.3	5	5.6	6.4	6.9	8	8.5	9.8	125.1	125.4
140	140	140.5	2	2.4	3.2	3.8	4.8	5.5	6.3	7.3	7.7	8.9	9.5	11	140.2	140.5
160	160	160.5	2.3	2.8	3.7	4.3	5.4	6.2	7.2	8.3	8.8	10.2	10.9	12.6	160.2	160.5
180	180	180.6	2.6	3.1	4.2	4.9	6.1	7.1	8	9.2	9.9	11.4	12.2	14.1	180.2	180.5
200	200	200.6	2.9	3.4	4.6	5.3	6.8	7.9	8.9	10.3	11	12.7	13.6	15.7	200.3	200.6
225	225	225.7	3.3	3.9	5.2	6	7.6	8.8	10	11.5	12.4	14.3	15.3	17.6	225.3	225.7
250	250	250.8	3.6	4.2	5.7	6.5	8.5	9.8	11.2	12.9	13.8	15.9	17	19.6	250.4	250.8
280	280	280.9	4.1	4.8	6.4	7.4	9.5	11	12.5	14.4	15.4	17.8	19	21.9	280.4	280.9
315	315	316	4.6	5.3	7.2	8.3	10.7	12.4	14	16.1	17.3	19.9	21.4	24.7	315.4	316
355	355	356.1	5.1	5.9	8.1	9.4	12	13.8	15.8	18.2	19.6	22.6	24.1	27.8	355.4	356
400	400	401.2	5.8	6.7	9.1	10.5	13.5	15.6	17.8	20.5	22	25.3	27.2	31.3	400.4	401

Note: Pipes available with ISI mark except 400 mm.

# Handling and Storage

## Proper Handling of Pipes



Please inspect all uPVC Agriculture Pipes and fittings upon receipt. Check for cracks, deformations, or damage at the socket and spigot ends caused by transport or improper handling.



Edoburg's uPVC Agriculture Pipes are built for high-performance water conveyance in open fields and rural networks. Handle carefully to avoid dropping, dragging, or striking the pipes during loading or unloading. Do not bend or stress joints, as it may impact hydraulic performance and cause long-term failure under pressure.

## Storage of Pipes

uPVC Agriculture Pipes should be stored on level ground in a shaded, well-ventilated space. If outdoor storage is unavoidable, the following precautions must be observed:



- Protect from direct and prolonged sunlight to reduce risk of UV degradation.
- Always store pipes on a flat platform to avoid ovality or socket damage.
- While stacking, alternate socket ends to distribute load evenly.
- Do not exceed stacking height recommendations to preserve roundness and mechanical strength.
- If racked storage is used, maintain spacing below 3 feet (900 mm) to prevent pipe sagging over time.



## Safe Handling of Solvent Cement / Adhesive

When using solvent cement for Edoburg's Solvent Joint pipes, adhere to the following safety practices:

- Immediately reseal containers to prevent hardening or evaporation of solvents.
- Apply in a ventilated space to avoid vapor buildup.
- Keep all adhesives in sealed, fireproof containers away from heat or open flames.
- Dispose of cloths, gloves, and applicators according to local HAZMAT rules.
- If skin or eye contact occurs, flush with clean water for 15 minutes. Seek medical care if irritation develops.

*Edoburg uPVC Agriculture Pipes are engineered for irrigation, drainage, and rural water supply systems. Improper handling may affect hydraulic efficiency and installation longevity. Always follow local codes and Edoburg's product guidelines.*



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