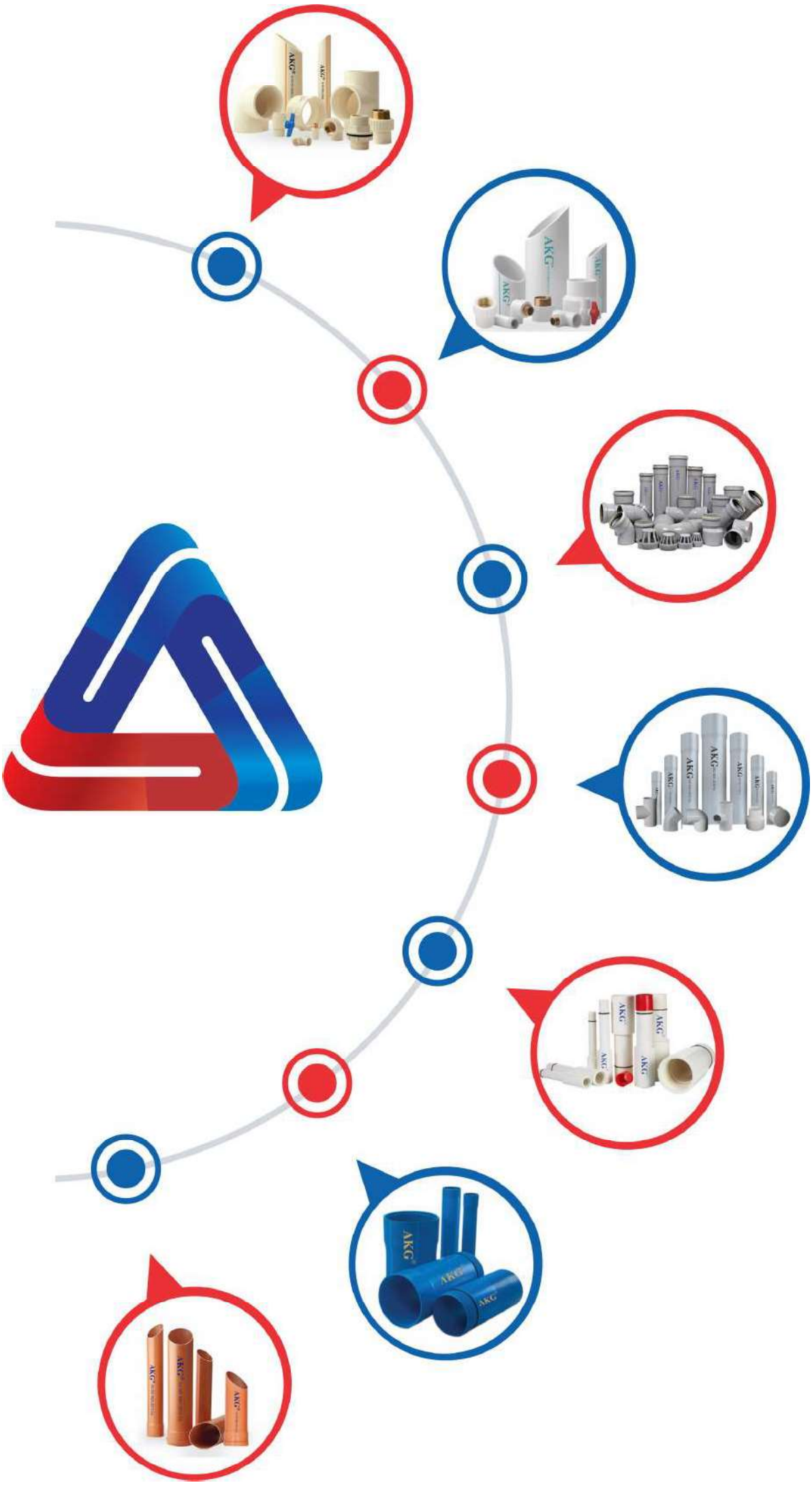




# Synopsis of Plumbing Products



**Complete Range of Pipes & Fittings**  
CPVC, uPVC, PVC-U, SWR for Plumbing, Sanitary, Borewell & Agriculture Purpose



# AKG Plumbing Division Plant at Gr. Noida, U.P

## ABOUT US

Founded in the year 1986, AKG is an acknowledged leading manufacturer of Plastic piping systems, Profiles, Wires and Cables for various purposes.

Dr. AKGarg Group of Companies comprises of :

- AKG Plastics Pvt. Ltd. (Electrical division): Manufacturing PVC Electrical Conduits and accessories, Wires and Cables, PVC trunking, Wiring channel and Cable management systems.
- AKG Extrusions Pvt. Ltd. (Plumbing and Sanitary division): Manufacturing CPVC, uPVC, ASTM, SWR, Agriculture, Casing and Column pipes with exhaustive range of fittings.

Three advanced plant are located in Delhi NCR region and use State of the art materials and technology. All the facility are ISO 9001:2015 certified and products are manufactured in accordance with relevant Indian (BIS) and other International Standards.

With more than three decades of experience in the relevant field AKG has come a long way in gathering the trust and preferences of leading Architects, Consultants and Contractors across the country.

The Company is greatly privileged to have supply in various prestigious Govt. and private organization like CPWD, UPJN, GWSSB, NTPC, NPCIL, L&T etc.



## TIME LINE

**1962**

ASHOK KUMAR GARG & BROS. A Trading Company is incorporated by Late S.R. Garg (Father of Dr. Ashok Kumar Garg, CMD).

**1990**

A new state of the art plant is set up in Okhla Industrial Area, Delhi for large scale manufacturing of ISI marked Conduits alongwith complete range of accessories in AKG Plastics Pvt. Ltd. (Formerly AKG Industries, Electrical Division).

**1990-2009 AKG becomes leading choice of Architects, Consultants, Contractors & Builders.**

**2016**

In 2016 the plumbing division is expanded aggressively to manufacture cPVC and uPVC plumbing pipes and fittings for hot and cold water applications at Ecotech-2, Greater Noida using German Extruders & Japanese Resin.

**2018**

Looking at the vast potential & strong brand recall in the electrical segment, AKG wires & cables are introduced to take top line of the company to next level.

**1982**

First time AKG brand is introduced in the market under the guidance of Dr. AK Garg to manufacture PVC Conduit Pipes (Proprietorship concern AKG Industries incorporated).

**2010**

Dr. A.K. Garg alongwith his son Mr. Abhishek Garg (Executive Director) set up M/s. AKG Extrusions Pvt. Ltd. (Plumbing Division) for manufacturing uPVC Pipes and fittings for sanitary and agricultural use.

**2017**

Borewell application Casing & Column Pipes manufactured on fully automated CNC machines is added to the umbrella of AKG Group.



# CPVC PLUMBING SYSTEM

ideal for hot and cold water plumbing

IS 15778 : 2007



CM/L : 8700062014





### CPVC PLUMBING SYSTEM

AKG CPVC pipes and fittings are manufactured according to IS-15778:2007 and ASTM D-2846 respectively. The choice of the raw material, the structural accuracy and the strict quality control imparts a high degree of reliability to AKG CPVC Pipes & fittings making them most suitable, easy and economic solution for transportation and distribution of potable water. It has numerous advantages over G.I. and other conventional piping system.

A derivative of Polyvinyl Chloride (PVC), Chlorinated Polyvinyl Chloride (CPVC) is a thermoplastic produced by the chlorination of the PVC resin. AKG CPVC plumbing system is manufactured using world's best Japanese material technology and a safe, long lasting and cost effective solution for the hot and cold water. This system is suitable for all plumbing and potable water applications. The pipes and fittings are made of chlorinated polyvinyl chloride and it is available in complete range from ½ to 4". Threaded inserts in the transition fittings are made from brass to withstand chemical corrosion even at the elevated temperatures.

### FEATURES



Corrosion Resistant



High Strength



UV Resistant



Lead Free



Fire Resistant



Maintenance Free



Withstands temp. up to 93°C

### APPLICATION



Hot & Cold Plumbing



Carrying Corrosive & Chemical Fluid



Carrying Drinking Water



Residential Use



Industrial Use

# CPVC PIPING

### 3: Leak-Proof technology for 100% Leak-proof Joints:

We manufacture our pipes and fittings ensuring 100% leak proof by using the state of art-material and technology. AKG's CPVC pipes and fittings are well designed which assures a complete leak proof piping system.

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### 4: Testing & Quality Control

Each and every lot of AKG make CPVC Pipe (IS 15778:2007) & fittings (ASTM D-2846) are tested as per scheme of testing & Inspection prescribed by Bureau of Indian Standards (BIS). We have complete testing facilities for carrying out all the tests as per IS 15778:2007 & ASTM D-2846. The following tests are routinely performed on CPVC Pipes & fittings manufactured by us.

Details of Test	Testing Equipments
Visual Inspection	Naked eye examination
Marking	Naked eye examination
Dimensional	
(a) Diameter at any point	Vernier Calliper
(b) Wall Thickness	Micrometer
(c) Effective Length	Measuring Tape
Opacity	Opacity Testing Equipment
Reversion Test	Reversion Oil Bath / Oven
Vicat Softening Temperature	VST Machine
Density	Density Apparatus
Hydrostatic Pressure Test	Hydrostatic Pressure Testing Machine
Thermal Stability Test	Hydrostatic Pressure Testing Machine
Resistance to External Blow at 0°C	Impact Testing Machine
Flattening Test	Flattening Test Equipment
Tensile Strength	UTM Machine

## UNIQUE SALIENT FEATURES OF AKG CPVC PLUMBING SYSTEM.

### 1: Top-notch Raw Materials

AKG's CPVC pipes and fittings are produced from a specially formulated compound. The material used is a special, virgin, heavy metal-free chlorinated polyvinyl chloride (CPVC) compound.

Pipes and fittings meet or exceed the toxicological requirements, they are of food grade quality and safe to use for potable water.

AKG's CPVC compound exhibits a better tensile strength, Vicat Softening Temperature (VST) and ductility.

### 2: Uniquely Designed Corrosion-resistant Brass Fittings to Deliver High Torque-Bearing Capability

Design	Advantages
1. Serrated internal brass surface with grooves of high precision and deep knurling.	1. High torque bearing capacity & strong CPVC brass bond.
2. Brass threaded insert with two EPDM 'O' rings.	2. High pull out resistance making leakage due to thermal expansion or contraction impossible.



# CPVC PIPING





ASTM D 1785



## uPVC PLUMBING SYSTEM

**ideal for cold water plumbing**

AKG uPVC plumbing system (Solvent Weld & Threaded) is the most suitable, easy and economical solutions for distribution of potable water. It is technically superior, cost effective and offers many advantages over conventional G.I. piping system. This system is very easy to install and functionally most suitable for all plumbing applications. Apart from more than 40-50% cheaper to G.I. piping system, it has many more years of service life. This hygienic system is endowed with many good features. It is a value added long term plumbing solution for building industry.



### uPVC PLUMBING SYSTEM

AKG Pipes manufactures "Lead Free" uPVC solvent weld plumbing system which is specially designed for cold water operations in residential, building & offices.

AKG uPVC ASTM solvent weld pipes and fittings are available from size 15mm (1/2") to 100mm (4") in Sch-40 and Sch-80. We manufacture uPvc pipe as per ASTM D 1785 & Fittings as per ASTM D 2467.

### FEATURES



Light Weight



Non Toxic



UV Resistant



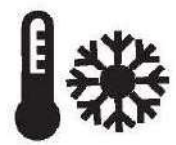
Cost Effective



Lead Free



Easy to Install



Cold Water Application

### APPLICATION



Cold Water Plumbing  
in Buildings



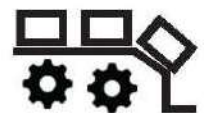
Swimming Pools



Aggressive /Corrosive  
Fluid Transportation



Water Distribution  
mains



Industrial Process  
Lines

# uPVC PIPING



## SWR DRAINAGE SYSTEM

### Faster Installation Leak-Proof Joints

AKG SWR system include a wide range of Soil, Waste and Rain Water Plumbing products for commercial, industrial, housing and public sector developments. All AKG SWR system are available in Adhesive-weld (selffit) and pushfit (Ringfit) options with unrivalled installation options & high quality finish.

IS 13592 : 2013



CM/L : 3035438





### PUSHFIT SWR SYSTEM

AKG Pushfit (Ringfit) Pipes and Fittings are manufactured as per IS 13592 and IS 14735 respectively in 75, 90, 110, 160mm. This system comes with a pre-fitted rubber (yellow seal) in the groove that ensures a leak proof joint, at the same time providing adequate scope for the thermal expansion/ contraction.

The Pipes are available in two types:

- Type A- Used for ventilation pipe work and rainwater harvesting.
- Type B- Used for soil and waste discharge systems.

### FEATURES



Light Weight



UV Resistant



LeakProof Joints



Yellow Ring Co-Moulded Technology

### APPLICATION



Sewage & Waste Water Lines



Rainwater Drainage



Residential Purposes

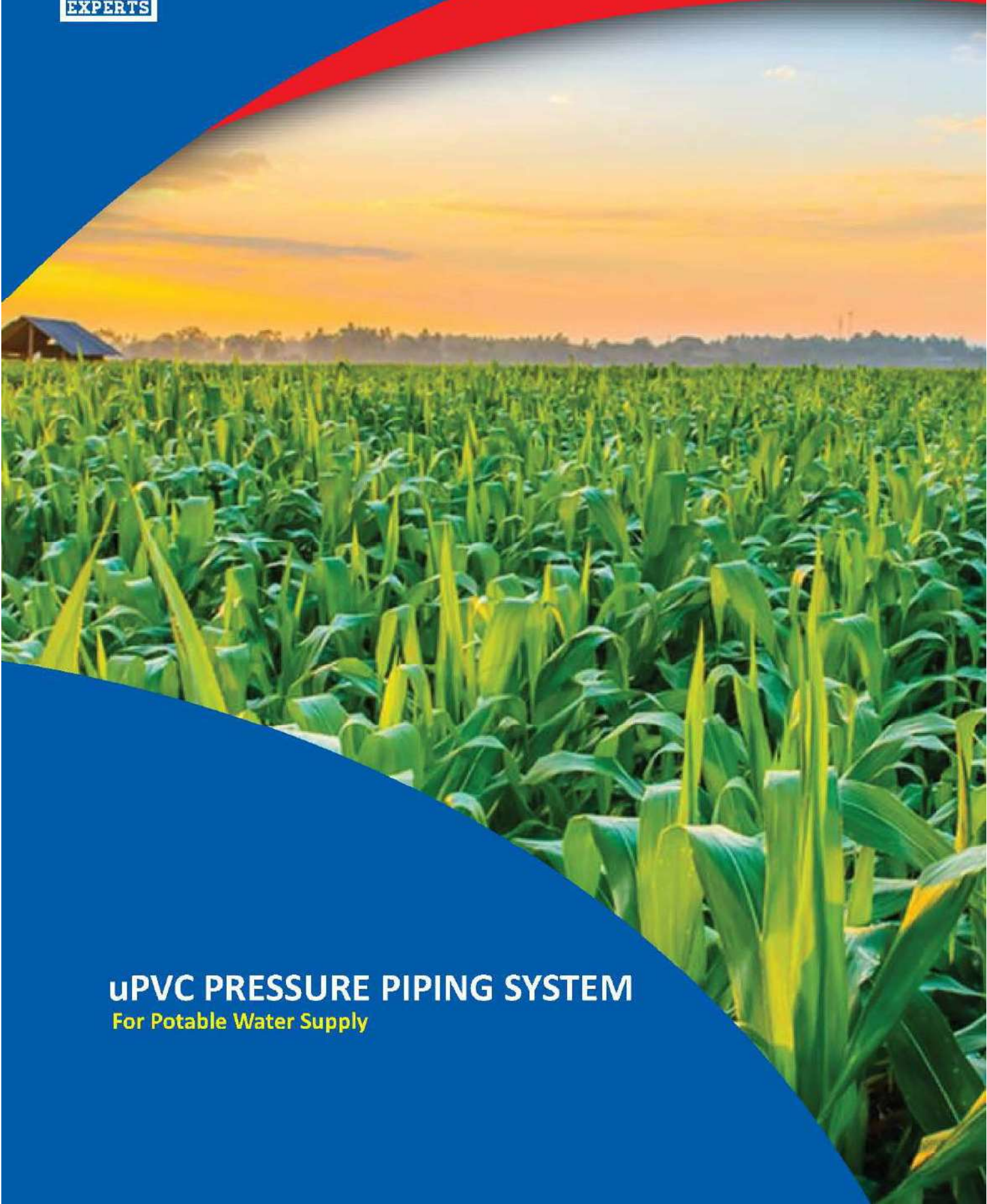


Industrial Use



Offices

# SWR DRAINAGE



**uPVC PRESSURE PIPING SYSTEM**  
For Potable Water Supply



### UPVC PRESSURE PIPING SYSTEM (AGRI PIPING SYSTEM)

AKG offers an exhaustive range of uPVC pressure pipes and fittings. Pressure pipes are manufactured as per IS 4985:2000 standard and are available in 20mm to 315mm size in different pressure class. Pipes with both types of joints i.e. solvent cement weld type and elastomeric rubber seal type joints are available. Varieties of moulded fittings are manufactured as per IS 7834:1987. These pipes and fittings are used for variety of applications like, agriculture, irrigation, water supply, industrial process lines, swimming pools and fire fighting mains, etc.

#### FEATURES



Corrosion Resistant



High Strength



UV Resistant



Light Weight



Chemical Resistant

#### APPLICATION



Irrigation



Chemical Distribution



Suitable for Sandy & Saline Water



Industrial Mining



Industrial Use

# AGRI PIPING



## uPVC COLUMN PIPE

For submersible Pump

AKG uPVC Column Pipes are specially designed for submersible pumps. These uPVC Column Pipes blend the perfect combination of technology and quality that guarantees a long hassle-free performance. These uPVC Column Pipes are a perfect replacement of galvanized steel pipes used for column application. Stringent quality is checked at every stage of production and ensuring the highest standards, which forms the hall mark of these uPVC Column Pipes.

AKG manufactures Column Pipes with **uniquely designed Bi-Axial Orientation Technique in Range - Sizes: 1" to 4" in Class ECO (V4), MED, STD and HEAVY.**



## Advantage of AKG uPVC Column Pipes



### Life Span of 30 years and more

Pipes & its square threads do not deteriorate due to corrosion /rusting / reuse and are designed to have high load capacity



### Operational cost and performance

Smooth inner surface leads to low frictional loss, thereby providing higher output & low energy and fuel consumption



### Maintenance

Low maintenance.



### Leakage Resistant

Special Designed LPR system with precise square threads done on CNC machines makes strong leakproof joints



### Locking System

AKG Column Pipes have turbulence free vibration control lock systems. Rubber Ring provides extra gripping.

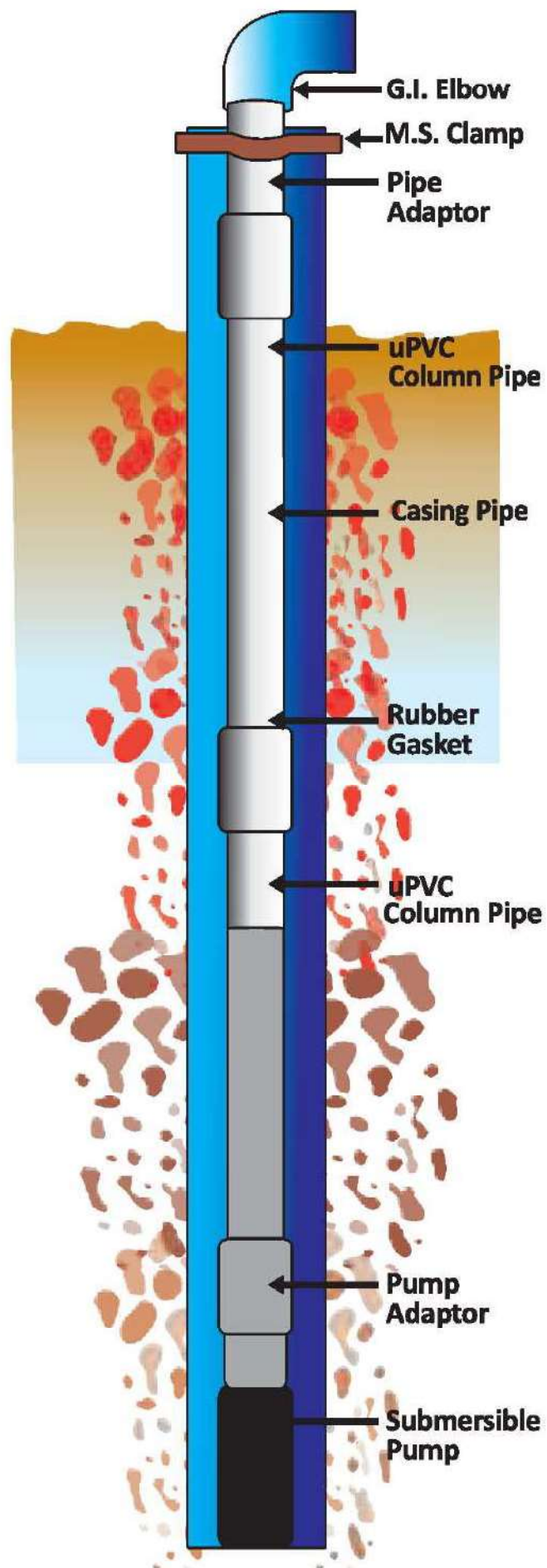


### Easy to Install

Light weight 3 metres length pipes are easy to install & remove

# COLUMN PIPES







IS 12818 : 2010



CM/L : 8700027315



## CASING PIPING SYSTEM

### For Tubewell

AKG offers varieties of pipes for bore well applications to cater to every need of bore well sector which includes Casing pipes as per IS 12818, Ribbed screen casing pipes for tube wells. SDR casing pipe series for shallow depth applications as per company standard, Plain pipes as well as screen (slotted) pipes are available in every category of casing pipes. (Slotted pipes can also be used for rainwater harvesting).



## CASING PIPES

AKG Casing pipes are as per Bureau of Indian Standards specification IS - 12818: 2010 and are available in blue colour. One end is male threaded, whereas, the other end is a female threaded socket. Ribbed screen casing pipes with threads on CNC machines are also available.

### Casing pipes are available in two types:

- CS Pipes: Shallow Casing pipes are suitable for depth up to 80 Mtr.
- CM Pipes: Medium Casing pipes are designed for depth above 80 Mtr to 250 Mtr.

## FEATURES



Light Weight



Non Toxic



Anti Microbial



High Strength



Corrosion  
Resistant



Non  
Conductive

## APPLICATION



Tube well



Mining Wells



Irrigation



Industrial Use

# uPVC CASING



## FEATURES



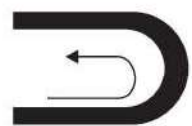
Light Weight



Dependable leak proof joints

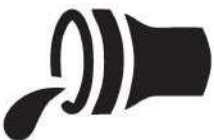


Tough and reliable



Corrosion and abrasion resistance

## APPLICATION



Sewage & Waste Water Lines



Effluents Drainage



Residential Purposes



Industrial Use



Offices

# PVC-U SEWERAGE



## PVC U SEWERAGE PIPE

### PVC-U DRAINAGE SYSTEM

AKG PVC-U Underground Drainage & Sewerage System pipe are intended for underground (buried) non pressure gravity drain and sewer applications for transportation of soil and waste discharge of domestic origin, surface water (storm water) and industrial effluent. In case of industrial effluent, chemical and temperature resistant and resistant to suspended matter have to be taken into account.

These pipes are made as per IS15328 standard.

in nominal outside diameter ranging from 110mm up to and including 350mm of plain ended or equipped with integral sockets for either solvent cement welding or for jointing with elastomeric sealing rings.

The pipes are available in different stiffness classes and are available in 3 Meters & 6 Meters length.



# Our Happy Clients



# AKG Group of Companies

Group of Building Experts



Dr. A.K. Gang Group of Companies

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 Size: 27.0 MB  
 Dimension: 30000 x 16917  
 pixels

## List of Akg Approvals



U.P. Housing & Development Board, Lucknow



U.P. Rajkiya Nirman Nigam Limited, Lucknow



M.P. Housing & Infrastructure Development Board, Bhopal



Rajasthan Housing Board, Jaipur



Government of Rajasthan, Commissionerate of Agriculture, Rajasthan Jaipur



C.P.W.D Chandigarh, Raipur, Ropar



Gujarat Water Supply & Sewerage Board, Gandhinagar



Public Works Department, Tamilnadu



Haryana Housing Board, Panchkula



Public Health Engineering Department Rajasthan, Jaipur

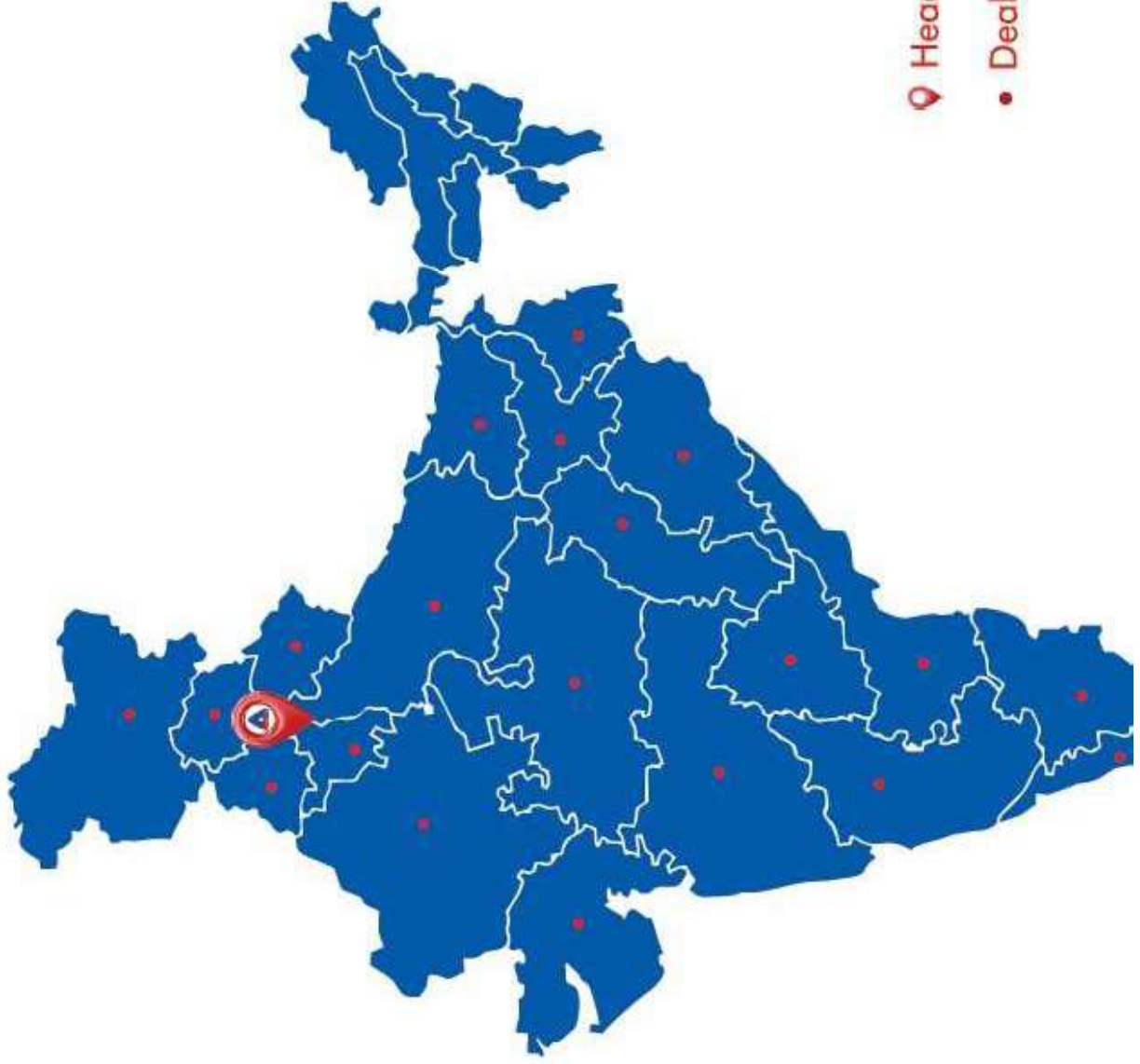


Rajpur Development Authority, Rajpur



NPCIL, Nuclear Power Corporation of India, Chennai

# Our Dealer Network



📍 Head Office

• Dealer Network





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