

Unlocking the future  
of India

# Unlocking The Future of India

Utkarsh's unwavering commitment to excellence for 40 years has fueled the nation's growth. At every step of progress, the organisation has created immense value amongst its partners, and continues to move forward in the journey with the principle of trust. With such a strong philosophy in mind, the organisation's mission is to take the future of the nation to greater heights of success, and to build a foundation that is truly unshakable.

Utkarsh believes that high ethical standards and consistent service to the community flourish a sturdy future. By prioritizing the customers' needs, the company has reached global standards of quality, becoming a key player in the international market.

Utkarsh is dedicated to fulfill the ever-changing needs of a growing and progressing nation.



# Our Promise to **U**



## Vision

To be the industry leaders across all verticals. And the preferred partner for our customers and stakeholders, by creating value and demonstrating high ethical standards.

## Mission

To deliver world-class products and services at competitive prices, through leading-edge solutions in technology and processes. To provide opportunities for inclusive growth to our employees by nurturing human resources. To share the pride of success with all our partners.

# From Us to U



Dear Friends,

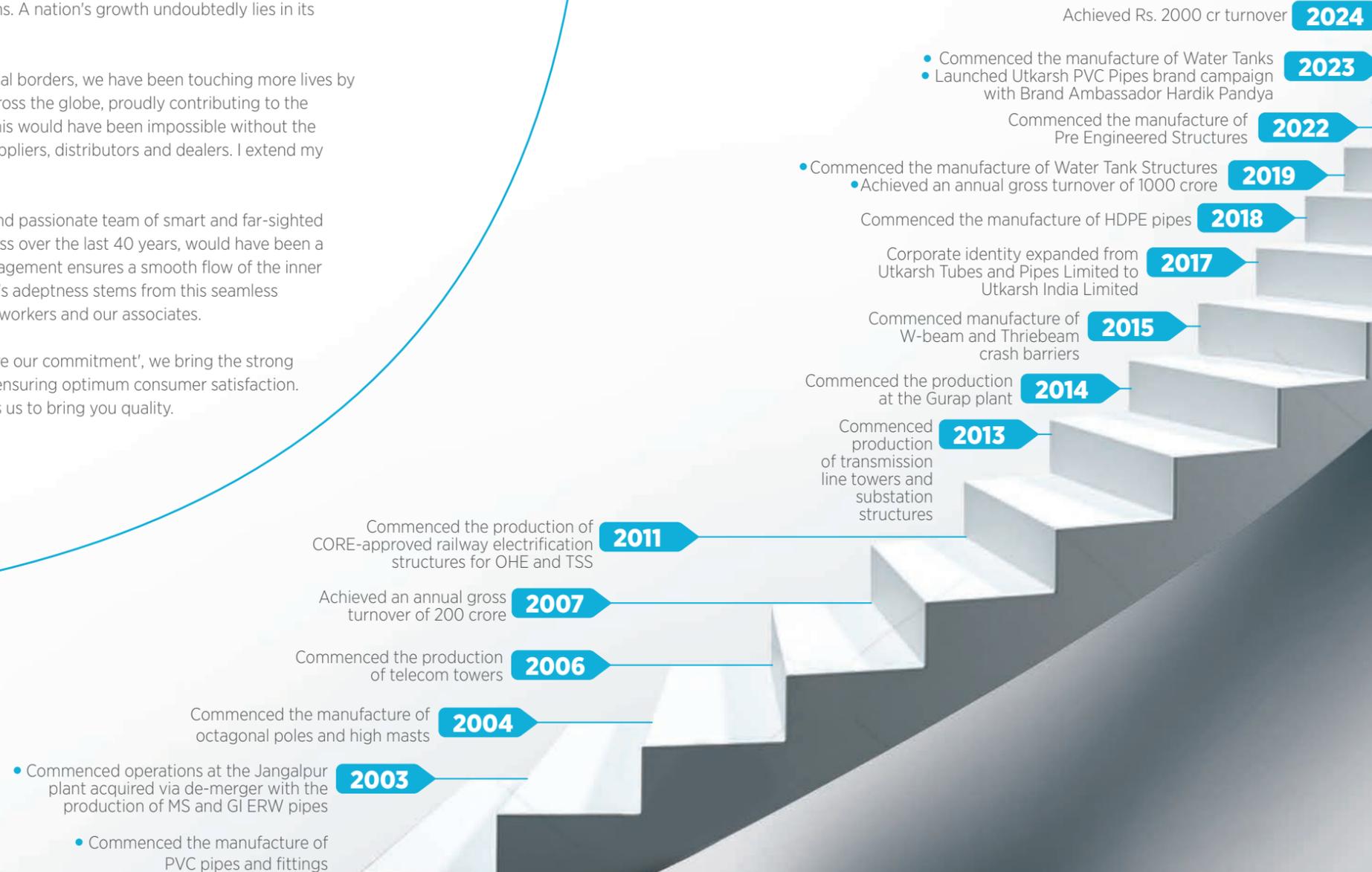
Living by John Henry Newman's philosophy - "Growth is the only evidence of life", we have evolved into Utkarsh India Limited from Utkarsh Tubes and Pipes Ltd., by diversifying into infrastructural solutions. A nation's growth undoubtedly lies in its infrastructural development.

Expanding our horizons beyond national borders, we have been touching more lives by adding infrastructural development across the globe, proudly contributing to the growth of foreign nations. A feat like this would have been impossible without the invaluable support of our esteemed suppliers, distributors and dealers. I extend my deepest gratitude to them.

Also, without an innovative, talented and passionate team of smart and far-sighted people, scaling the mountains of success over the last 40 years, would have been a dream. A strong and experienced management ensures a smooth flow of the inner workings, much like our pipes. Utkarsh's adeptness stems from this seamless coordination among management, co-workers and our associates.

Sticking to our corporate ethos of 'U are our commitment', we bring the strong promise of consistency and reliability, ensuring optimum consumer satisfaction. 'Customer first' is the motto that drives us to bring you quality.

Regards,  
Sunil Bansal  
CMD



# METAL BEAM CRASH BARRIERS

## Ensuring Safe Journeys For **U**

We at Utkarsh India created the Metal Beam Crash Barrier division with the vision to protect every journey by making India's roads safer for all. Today, we are a premier brand in the industry, with two decades of expertise in manufacturing and supplying over 50,000 km of metal beam crash barriers.

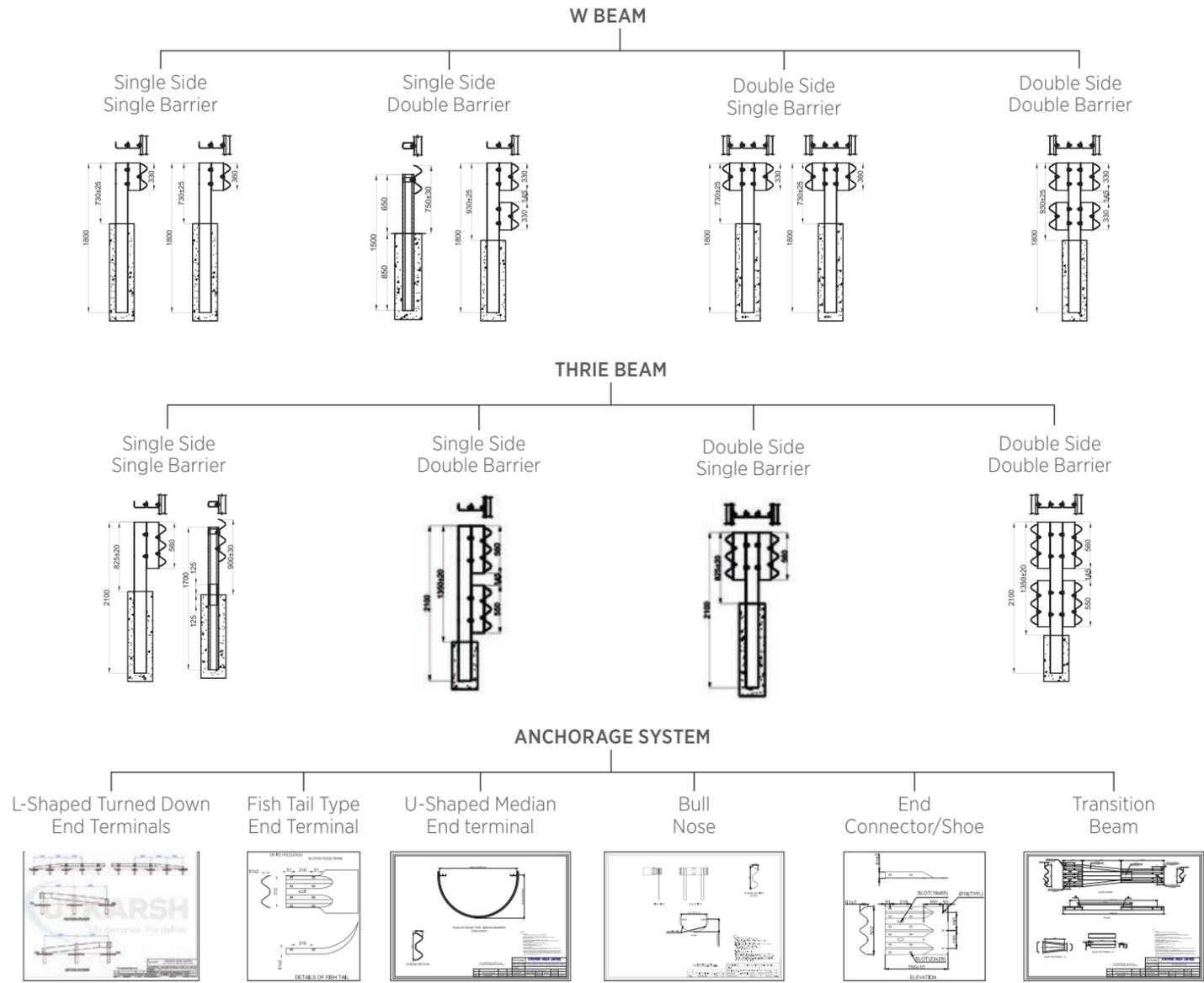
Approved by Govt departments as well as infrastructure companies, our brand has been a part of every prestigious project, nationally and globally.

### The Utkarsh Advantage

- We are among India's top manufacturers of certified crash-tested crash barriers.
- Our state-of-the-art production unit is located close to sea ports, rail routes and Indian national highway with an expert team for forwarding and logistics facilities.
- We have 5 in-house 12.5 meters long Hot Dip Galvanizing facilities, using only Special High Grade Zinc (99.995% purity) procured from Hindustan Zinc Limited.
- Our production capacity is 1,44,000 MT/6500 km per annum of crash barrier, both TYPE A W-BEAM and TYPE B THREE BEAM, as per MoRTH clause 810/IRC, with more than 5000 MT in ready stock for faster delivery.
- In-house well-equipped testing facilities with qualified quality engineers and advanced machinery to test the quality of raw materials, ongoing production and finished material.



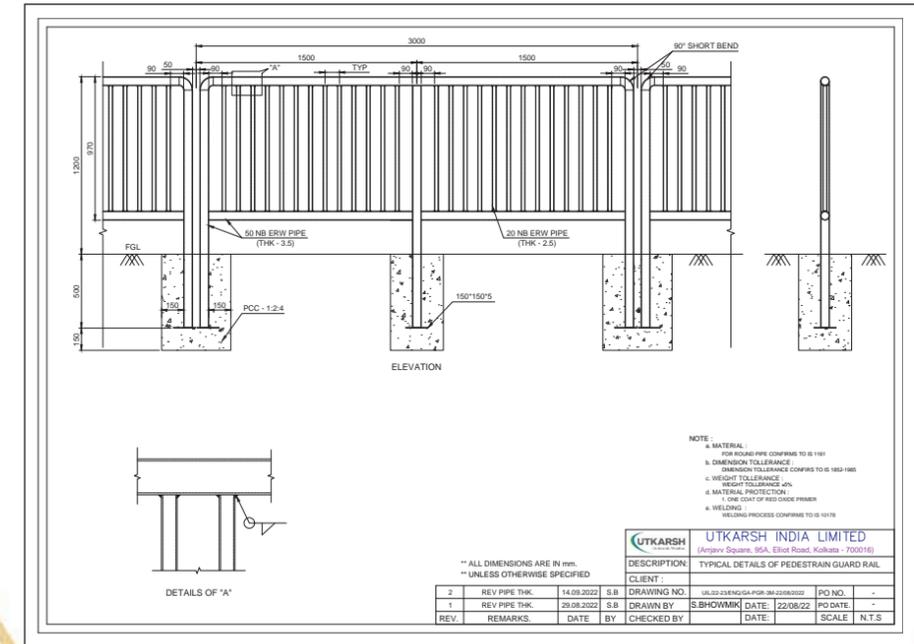
# Our Products



## CRASH TESTED METAL CRASH BARRIERS



## PEDESTRIAN GUARD RAIL (PGR)



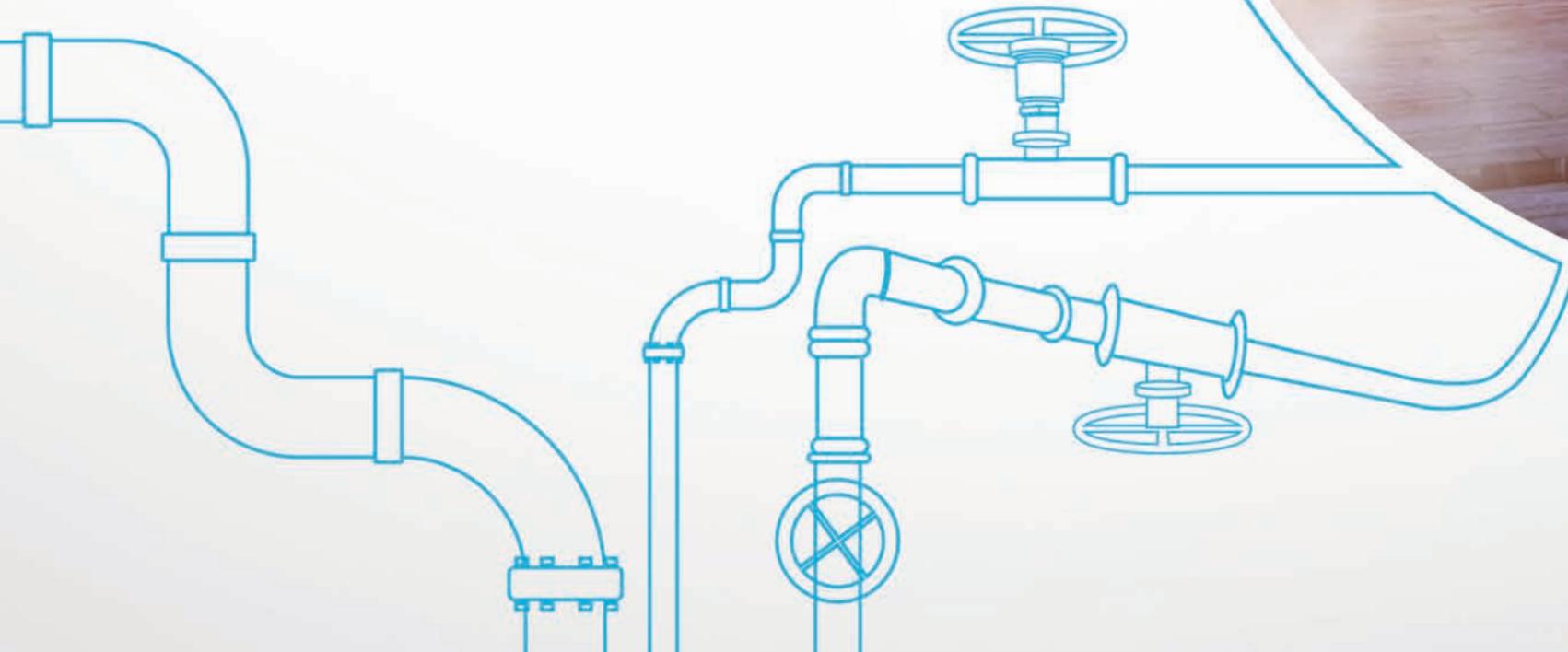
# STEEL TUBES AND PIPES DIVISION

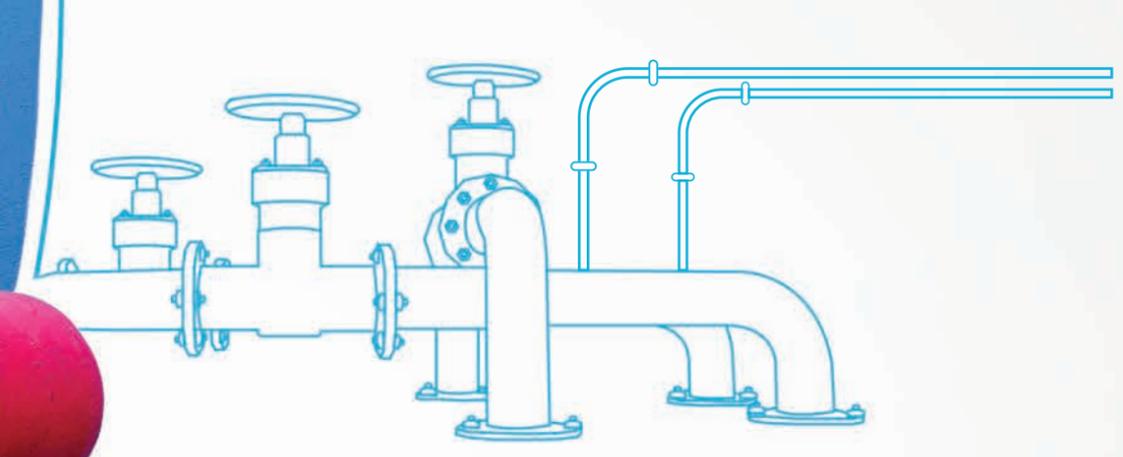
## Building Lifelong Lifelines for **U**

At Utkarsh, we are not just manufacturing pipes; we are helping to create the lifeline of the nation. We produce Steel Tubes and GI Pipes of different diameters for applications in the fields of air & water lines, structural & fencing, fire sprinklers, bore-wells, hollow sections, idlers & belt conveyors, lancing pipes, boilers & heat exchangers, and general engineering.

Our products conform to national and global quality standards, such as ISO, BS, ASTM A, ASTM D, EN, AS & SLS, and are duly approved by all national/international Inspection & Certification authorities including SGS, CE, DNV, BVQI, TUV, among others.

We have earned the trust of our clients with our 3 decades of expertise, cutting-edge technologies, economies of scale, optimum capacity utilization and cost-effective manufacturing processes. Which is why, Utkarsh is the preferred brand for the most prestigious projects in India and around the world.





## The Utkarsh Advantage

Only we can offer our clients the unique advantage of having our own World-class Captive Plant, with the following unmatched advantages:

- 5 Tube Mills
- 2 Slitting Lines
- Galvanizing up to 12.50 metres of length (Five nos.)
- CNC Profile Cutting
- High-Speed Tube Mill « 100 mtr/min
- Tube Mill for larger dia pipes
- In-house Spectrometer
- In-house CNC coupler manufacturing plant
- Cold Saw Cutting Tube Mill
- In-house testing facilities
- Online NDT

## Manufacturing Capabilities & Fundamental Equipment

Slitting Lines | ERW, HEI W Tube Mills | Hot Dip Galvanizing Plant | Threading Machine | End Facing & End Forming Plain End & Bevelled End Machine | Pipe Straightening Machine | Hydro Testing Machine | Online NDT/Eddy Current Equipment | Auto Start DG Set Mechanical (UTM 20 MT & 60 MT) & Chemical Testing Equipment.

## Why Utkarsh

- Large variety of products under one roof
- Products available in bare or Zinc coated or with other surface coating as per customer choice
- Only uses ISI Marked Raw Material from SAIL, TATA & HZL
- State of the Art Technology & Competent qualified personnel
- Well equipped Mechanical, Chemical & Metrological Testing Laboratory which facilitates each and every testing related to product according to various national & international standards
- Customized length & end condition available
- Production flexibility which meets their schedule as per various national & international standards
- Crowned ISO 9001 : 2008, ISO 14001 & OHSAS 18001 Certifications
- Whatever the service, grade or standard/specification UTKARSH offers the best solution for the customer

## Solutions For Every Application

### AIR & WATER APPLICATIONS

Specification

IS1239 | IS3589 | BS1387 | IS4270 | EN10255

ASTM A 53 | 15065 | AS1074

### STRUCTURAL APPLICATIONS

Specification

IS1161 | IS4923 | EN 10219, EN39

ASTM A 500 | AS1163

### STEEL TUBULAR POLE

Specification

IS2713

### FIREFIGHTING & HVAC APPLICATIONS

Specification

IS1239 | IS3589 | ASTM A 53

ASTMA795,ASTMA135-Grooved Pipes

### GENERAL ENGINEERING APPLICATIONS

Specification

IS3601 | IS9295

AS1143-Idlers & Belt Conveyors



# PVC PIPES & FITTINGS

## All Rounder for **U**

**UTKARSH INDIA LIMITED** is a manufacturing conglomerate having the largest Plumbing Pipes and Fittings production facility in Eastern India. With 40 years of pipe manufacturing experience, we are an established brand in this field. Being a traditional manufacturer of pipes, we offer a rare blend of regular advancement of our products and services, by adapting to the latest technologies available in the world.

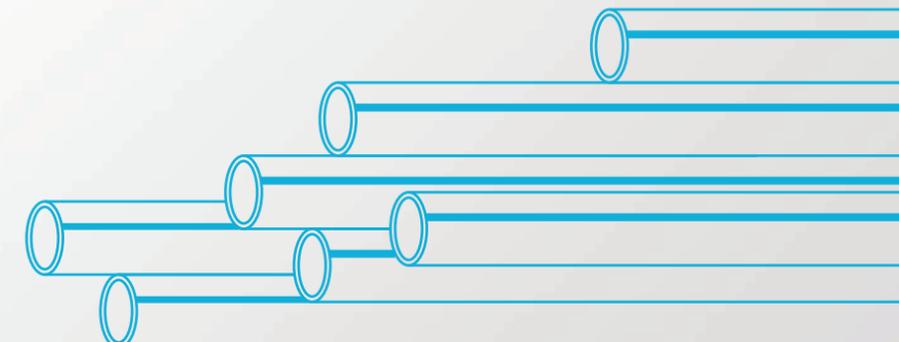
We are a large corporate group having interests in manufacturing of uPVC, CPVC, SWR and HDPE in two state-of-the-art plants located at Gurap and Jangalpur in West Bengal, with a **capacity of 64,000 MT per annum in Polymer.**

## uFlo: uPVC lead-free pipes & fittings

**For lead-free cold water plumbing application used in residential & commercial complex**

Utkarsh uFlo - uPVC pressure plumbing system is the most suitable, easy and economical solution for transportation and distribution of water. It is technically superior, cost effective and with many other advantages, uFLO uPVC pressure plumbing system is very easy to install and functionally most suitable for lead free cold water plumbing application. This hygienic system is endowed with many good features; uFLO is a value added long time plumbing solution for building industry.

Utkarsh, supplying only superior quality products, aims at satisfying domestic & national customers. Utkarsh's view about high technology, quality & advanced product range supported by its state-of-the-art equipment installed at the plant & technical know-how available from the strategic alliance with world leaders in plastic piping technology.



# Application :

- Potable water supply systems
- Rising and distribution mains
- Residential & commercial complex/township/  
high-rise buildings/ hospitals & industrial plumbing
- Swimming pools

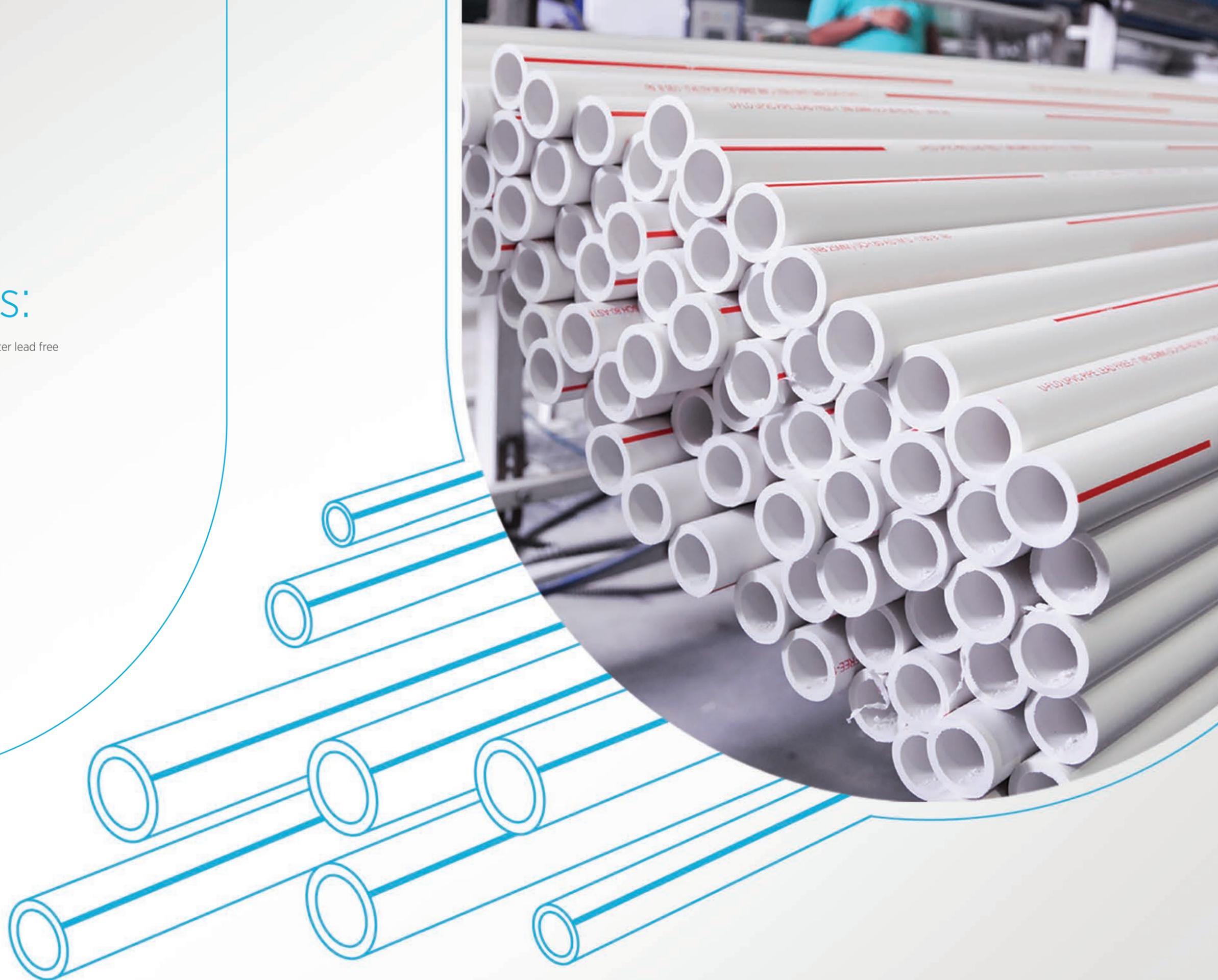
# Other Features:

- Light weight | Hygienic | Suitable for carrying drinking water lead free
- Easy to install, transport and handle
- Leak-proof joints, quick installation
- Excellent chemical and corrosion resistance
- Optimum flow rates, no clogging
- A large range of fittings
- Low on maintenance
- UV resistance

# Size range

## Pipes and Fittings Available Range:

1. Pipes - ½" to 2" as per ASTM D 1785 Schedule 40 & 80
2. Fitting- ½" to 2" as per ASTM D 2467 Schedule 80





# CPVC Plumbing Pipes & Fittings

## For hot and cold water application

Ultimate Solution for Hot & Cold Water Application Pipes are manufactured in Copper Tube Size [CTS] from ½" to 2" with two different standard dimensional ratios SDR- 11 and SDR- 13.5 are made from CPVC Compound. Pipes and fittings are produced as per SDR- 11 meet the requirement of ASTM D 2846 where as the pipes with SDR- 13.5 meet the requirement derived from ASTM F 442, specific to CPVC in Iron Pipe Size (IPS) dimension, which can also be applied to CPVC pipes in CTS dimension. Apart from having the same physical properties, SDR- 11 and SDR- 13.5 have different wall thickness and therefore, at any given temperature, have different pressure rating. Our pipes have maximum service temperature of upto 82°C to 90°C

Certification (BIS) -IS: 15778

IS No: IS 15778: 2007 CM/L No - 5100022966

Type/Size/Grade/Variety covered under licence:

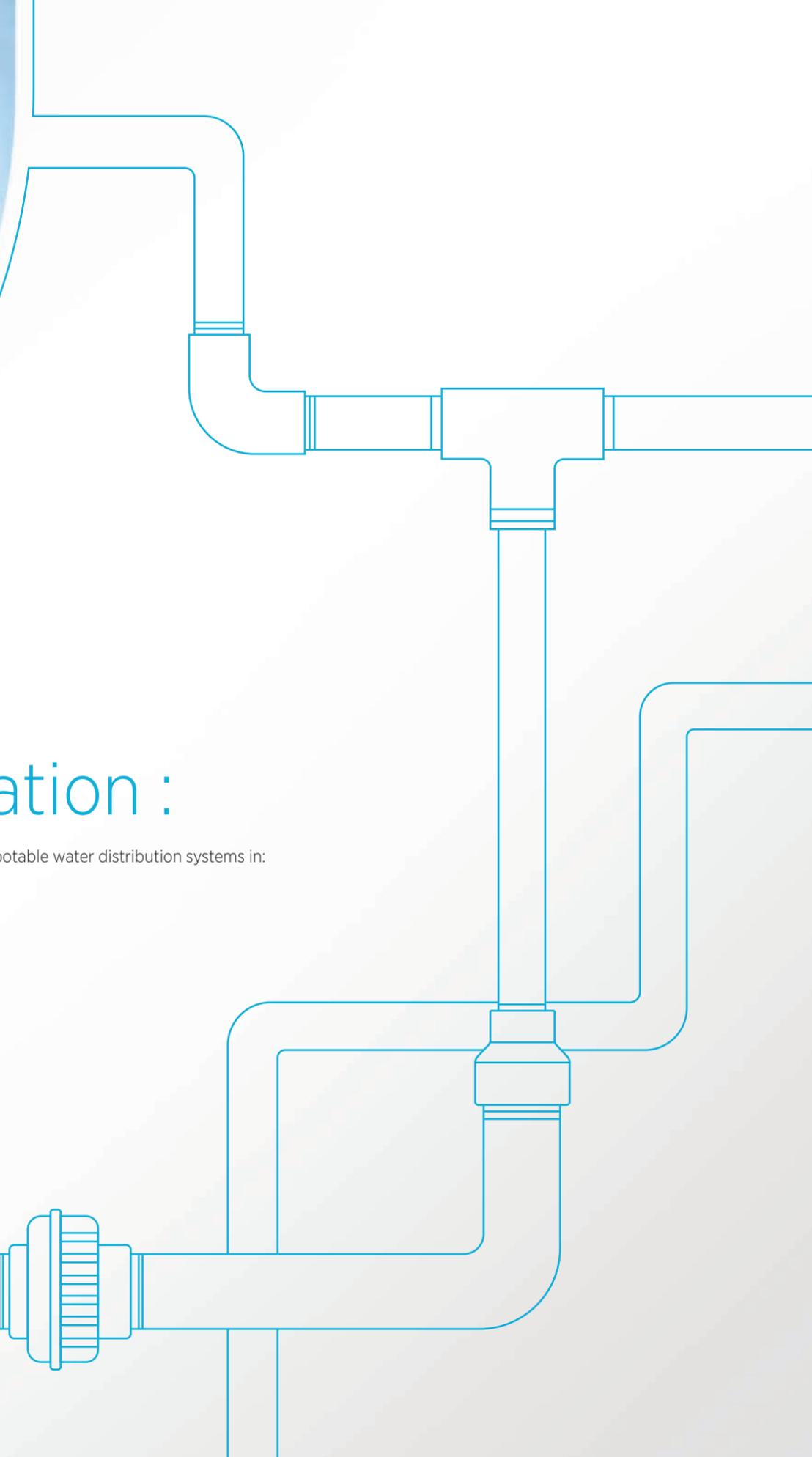
Class 1 (SDR- 11), DN 15mm to 50mm

Class 2 (SDR- 13.5), DN 15mm to 50mm

## Application :

Ideal for hot and cold water potable water distribution systems in:

- Individual homes
- Residential buildings
- Apartments and villas
- Office complexes
- Commercial buildings
- Hotels & industries
- Hospitals
- Educational institutes
- Swimming pools



# SWR Pipes & Fittings

For sewerage waste water application - soil, waste, rainwater, ventilation

## Features:

- Quick & easy installation due to lightweight pipes & fittings
- UV stabilized to ensure lifetime endurance
- Leakproof joints
- Maintenance-free systems
- All pipes & fittings in strict compliance to standards
- Full range of pipes & fittings
- Corrosion & rust proof
- Specially compounded to withstand rugged outdoor installation
- Chemical resistant (especially to most household chemicals) High flow rate with smooth & no scaling or depositions
- Smooth finish to ensure non-choking system
- Suitable for outdoor application
- Designed for long durability & service
- Self-extinguishing
- Attractive steel grey colour

## Size range: Pipes & Fittings

### Size range: Pipes

- 75mm
- 110mm
- 160mm

### Fittings:

- 75mm: Coupler, Tee, Double Tee, Bend, 45° Bend, Y, Double Y, Clip, Vent Cowl, Reducer, WC Connector, Nahani Trap, Pass Over.
- 110mm: Coupler, Tee, Double Tee, Bend, 45° Bend, Y, Double Y, Clip, Vent Cowl, P-Trap, S-Trap, Reducer,
- WC Connector, Nahani Trap, Pass Over
- 160mm: Coupler, Tee, Bend, 45° Bend, Y, Clip

### With ISI mark:

- Pipes- IS: 13592
- Type 'A'- 75mm to 160mm
- Type 'B'- 75mm to 315mm
- TYPE A - Used for Ventilation & Rainwater System
- TYPE B - Used for Soil & Waste Discharge System
- Moulded Fittings as per - IS:14735



# Agriculture Pressure Pipes & Fittings

For lift and surface irrigation systems, agriculture water supply and industrial process lines

Used for transportation of water in potable water supply systems, rising main and distribution lines, lift irrigation systems, surface irrigation systems, agriculture water supply, industrial process lines, swimming pools etc. Pressure pipes are manufactured as per IS 4985:2000 standard and are available in 40mm to 315mm sizes in different pressure class.

## Features & Benefits:

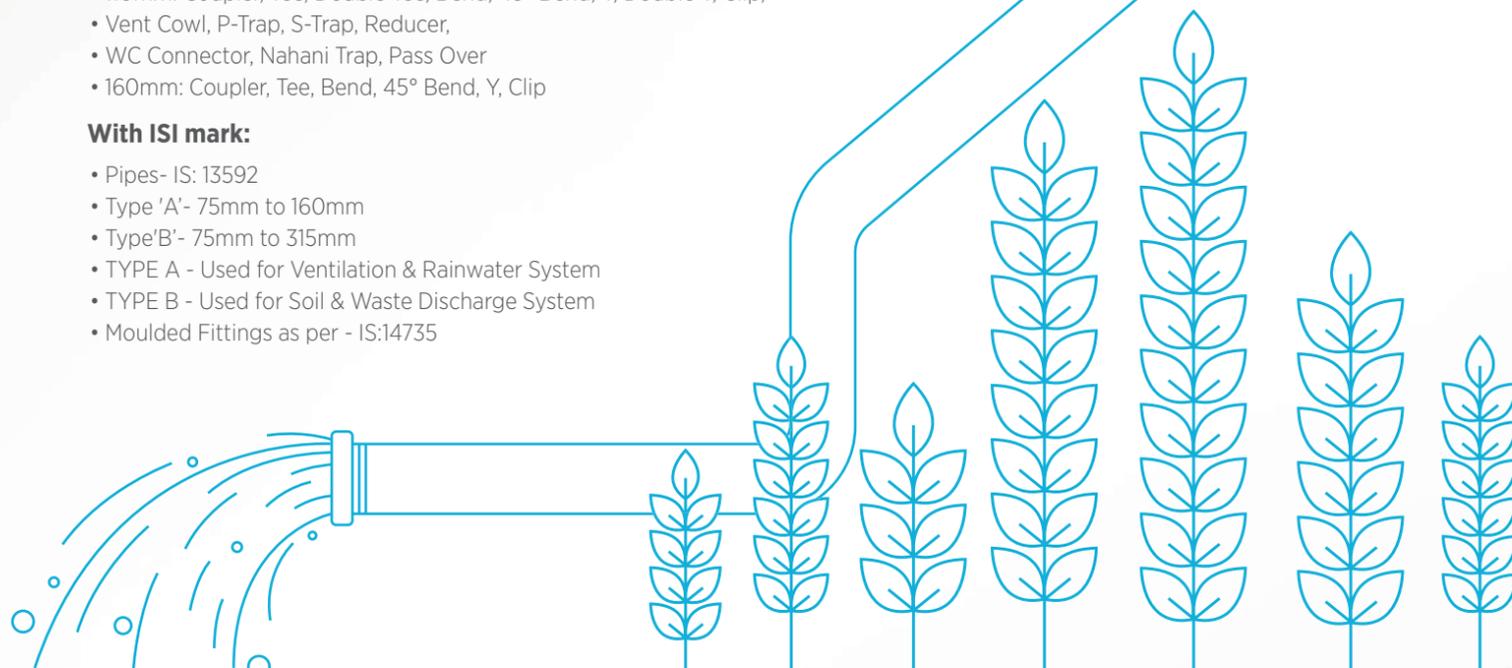
- Excellent corrosion and chemical resistance to most acidic and alkaline solutions
- Lightweight
- Easy to handle and transport
- Excellent flow characteristics
- Available as per IS-4985
- Available in sizes from 20mm (VS") to 315mm (12") as per above standards
- Commonly supplied in 6m lengths with plain ends or socketed at one end for solvent cement weld
- Convenient push-fit joints
- Joints accommodate expansion and contraction
- Joints are resistant to soil movement due to earthquake effects

## Size Range Pipes:

Both in Plain & Socket end.  
Class-1 90mm to 315mm  
Class-2 63mm to 315mm  
Class-3 40mm to 315mm  
Class-4 20mm to 315mm  
Class-5 20mm to 315mm

## Class of Pipe Colour:

Class 1 - Red  
Class 2 - Blue  
Class 3 - Green  
Class 4 - Brown  
Class 5 - Yellow





# uPVC Column Pipes For submersible pump

## Features and Benefit:

**Lightweight:** PVC pipes are light in weight hence transportation and installation becomes much easier.

**Hygienic:** As uPVC is immune to galvanic and electrolytic erosion, both pipe and water passing through it is not affected and hence water is not contaminated.

**High flow rate:** Mirror-smooth inside surface of pipe and corrosion resistance property prevents scale formation which ensures high flow rate resulting in substantial power saving. They can be installed in all types of acidic or alkaline medium which badly affect metal pipes.

**Longer life:** Utkarsh pipes are manufactured with latest technology under stringent quality control. Specially imported additives are used for higher strength and trouble free long service life.

**High tensile load capacity:** Specially designed square threads (male and female) are manufactured to provide smooth fitment/refitment. The design of threads along with the pipe material makes it strong enough to take high tensile loads.

**Leakproof joints:** The sealing rings are made from best quality rubber which ensures long service life, absorption of pump vibration and leak proof joints.

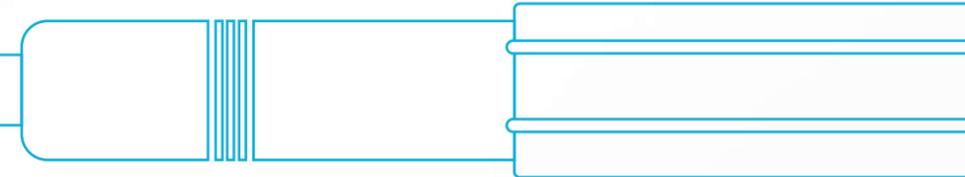
**Overall economy:** In addition to the above benefits, Utkarsh column pipes for submersible pumps are much economical to other conventional pipes.

## Size range - pipes Available range:

Pipes: The column pipes are available in 1", 1¼", 1½", 2", 2½", 3" and 4" in different classes. Pipes have female belled threads at one end and male threads on the other end and/or with separate coupler. Pipes are available in 3 meter length with square threads fitted with rubber sealing ring at male threaded end.

## Design & Testing:

Utkarsh Column Pipes have been specially designed and manufactured under stringent quality standards. They are tested to withstand system load comprising of pump, water and pipe weight with adequate factor of safety, they can withstand considerable shocks and jerk load during operation due to unique design of square threads.



# PVC Well Casing Screen Pipes

## For deep, medium and shallow borewell

- As per IS 12818-2010/ASTM D-1785/DIN 4925
- Appropriate medium for getting clean water from deep and shallow borewell
- Threaded terminals, thus easy to join and economical
- Can be installed even in deep bore well due to good elastic joints
- Easy to cut and install

- Available in 35mm to 400mm (1 ¼ inch to 16 inch) in CM/CS and also in Sch 40-80-120
- Rust free, chemical resistant and long lasting
- Non toxic parts ensure unaltered taste of water
- Strong, thus are chances of bore well sinking in the ground
- Weights five times less than steel pipe. Hence, easy to transport at lesser cost

## Size range - Pipes & Ribbed Strainers Pipes:

- Casing Medium (CM) - 40mm (1 ½") to 400mm (16")
- Casing Shallow (CS) - 150mm (6") to 200mm (8")
- Casing Deep (CD) - 250mm (10") to 400mm (16")
- Ribbed Strainers: Ribbed Medium Screen (RMS) - 40mm (1 ½") to 175mm (8")

## Applications:

- Use in bore & tube well
- Rising and Distribution Mains
- Residential & Commercial Complex / Township / High rise buildings
- Hospitals & Industrial Plumbing
- Swimming Pools

## Tube well Depth

Casing pipes are classified into those suitable for shallow, medium and deep depth wells as under:

- Casing Shallow (CS) Pipe: Shallow well casing pipes suitable for well with depths upto 80 meters (262 Ft)
- Casing Medium (CM) Pipe: Medium well casing pipes suitable for wells with depths above 80 m and upto 250 meters (820 Ft)
- Casing Deep (CD) Pipe: Deep well casing pipe suitable for wells with depths above 250 m and upto 450 meters (1476 Ft)



## HDPE Pipes:

For fluid transportation and sprinkler Irrigation systems, Utkarsh offers total solutions in PE Piping Systems.

### Features:

- Light in weight
- Long Life, 50 -100 years
- 'C' value-150 throughout its life
- High ductility & resilience
- Superior flow characteristics
- Mirror-like smooth inner surface
- Leak free & abrasion resistant

### Industrial Sector:

- Effluent/waste disposal
- Dust suppression systems
- HVAC systems
- Conveyance of corrosive fluids, slurry etc.
- For deployment of underground electrical cables
- Landfill gas and extraction

### Applications: Infra Sector

- Potable water supply
- House service connections
- Sewerage network
- Chemical transportation

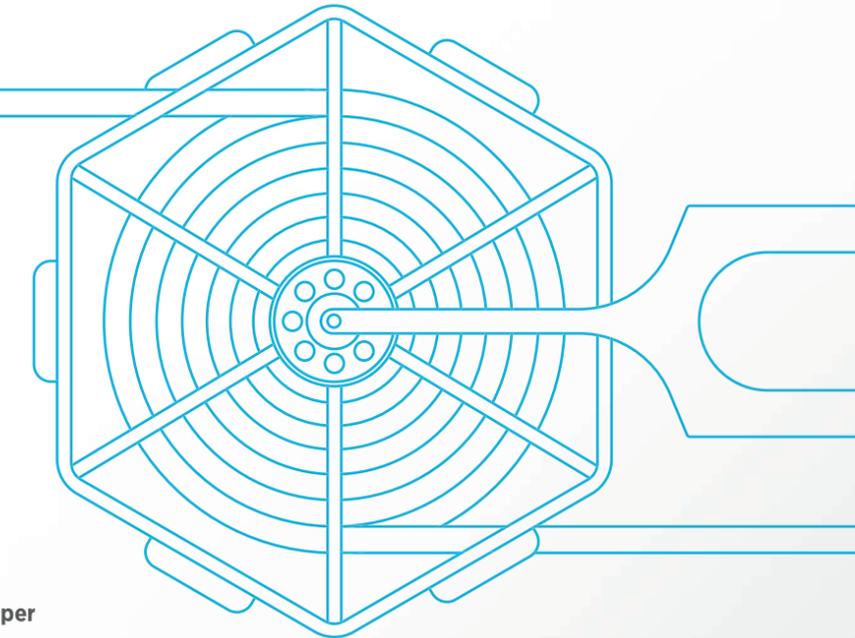
### Offerings:

PE products available in sizes from 20mm to 315mm in PE 63, PE 80 & PE 100 grades conforming to national & international specifications like:

- IS: 4984-2016 for polyethylene pipes for water supplies
- ISO: 4427 for potable water distribution
- EN 12201 for water supply
- IS:14151 (Part I & II) for sprinkler irrigation systems

### Agricultural Sector

- With submersible/jet pumps
- Mainline/lateral in sprinkler systems
- Sub-soil drainage



## PLB HDPE Duct

**For deployment of optic fiber and copper cables As per  
TEC/GR/TX/CDS- 008/03 MAR- 11  
(with Amdnt No. 1 dated 25/28, 03, 2013)**

Utkarsh Permanently Lubricated HDPE Duct are made from virgin, UV grade HDPE materials and are used for deployment of Optic Fiber and Copper Cables. The ducts are manufactured as per TEC Standards & various international standards. The ducts have superior resistance to natural or mechanical damage. The ducts consist of two concentric layers, the outer layer being HDPE; co-extruded with an inner layer of solid permanent lubricant to reduce the Internal Co-efficient of Friction (ICF).

### Advantages:

- Flexible & light in weight
- Faster and easy installation of Optic Fiber cable / Copper Cable with less manpower
- Available in coils
- Reduction in installation cost & time
- Low maintenance and easy future upgradation
- Reduction in number of accessories due to longer lengths of pipes
- Ducts are non-toxic and safe to handle
- Suitable for installing OFC by Blowing Pulling method

### Available in sizes with/without rope:

- 32/26mm
- 40/33mm
- 50/42mm

# WATER TANKS

## Our Promise of Safe Water Starts With U

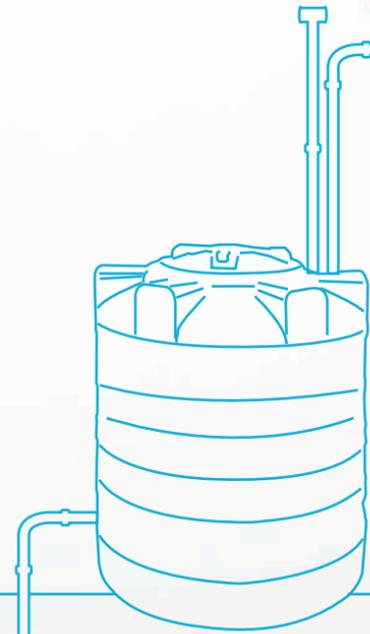
Introducing UTKARSH Water Tanks - Redefining Water Storage with Unmatched Quality and Innovation. Crafted with 100% virgin and food-grade materials, our tanks ensure pure and safe water storage. Featuring a specially engineered six-shoulder design for superior compressive strength, they are resistant to fungus, micro-bacterial growth, algae, and corrosion. With 100% UV protection, our tanks offer durability in all weather conditions. Easy installation is guaranteed with threaded lids for added safety. Manufactured using the roto-moulding process, our tanks meet rigorous Indian and international standards, making them the epitome of reliability. Experience the excellence of UTKARSH Water Tanks - where quality and innovation meet for unparalleled water storage.

### Unique Features And Benefits:

- 100% virgin and Food grade material
- High strength and Durable
- Specially Six shoulder design : Provides superior compressive strength
- Anti-Fungus, Anti Micro-bacterial, Anti-algae, Corrosion resistance, Odour resistance
- 100% UV protected
- Easy to Install
- Threaded Lid ( Safety from Heavy winds, Animals and Birds)
- Multi-Ribbed Design: For long lasting strength
- World-class look and design
- RotoMoulded manufacturing Process: It gives flexibility which takes care of cyclical expansion and contraction in outdoor weather
- The inner anti-bacterial layer is infused with Microban Anti-bacterial Technology which helps to eliminate bacteria by 99%
- The intermittent foam layer keeps the water inside the tank safe from external temperature variation and keeps it cool even under extreme heating conditions
- The intermittent black colour UV sun shield layer protects the tank from harmful UV rays
- Tested as per Indian and International standards

 PRIME QUALITY RAW MATERIALS

ANTI-MICROBIAL PROPERTIES 





## Overhead Cylindrical Vertical Tanks

PRODUCT	CAPACITY (Liters)	COLOURS
3 Layer Tank with Antimicrobial Protection	500 / 750 / 1000	AQUA GREEN, TRUE BLUE, BRILLIANT WHITE
4 Layer Tank with Antimicrobial Protection	500 / 750 / 1000	AQUA GREEN, TRUE BLUE, BRILLIANT WHITE
4 Layer Insulated Foam Tank with Antimicrobial Protection	500 / 750 / 1000	AQUA GREEN, TRUE BLUE, BRILLIANT WHITE

## Dimension And Specifications :

CAPACITY (Ltr)	OUTSIDE DIAMETER (mm)	OVERALL HEIGHT (mm)	MANHOLE DIAMETER (mm)
500	893	990	405
750	1004	1070	400
1000	1132	1215	410

# HIGH MAST STRUCTURES & STREET LIGHTING POLES

## Illuminating India for **U**

As a leading brand in the category  
Approved by Government, PSUs and Corporates  
2 decades of expertise

**1,000,000 +** Polygonal Poles

**50,000 +** Lighting Masts



## The Utkarsh Advantage

- Largest brand for the production of Lighting Masts and Street Lighting Poles in India (Octagonal/Polygonal/Conical/Swaged).
- Production capacity of more than 300,000 units/annum of Poles & 10,000 units/annum of High Mast Lighting Systems, each with committed delivery time
- Vetted design software for secure High Mast structure design by Jadavpur University, Kolkata
- Wind Tunnel Test certifications from IIT Kanpur for performance analysis
- State-of-the-art manufacturing machinery & plant setup managed by highly qualified manpower
- 5 in-house seven-tank galvanization setups, each with 12.5 metre-long GI Bath
- Successful installation of 50,000 Lighting Masts & 1,000,000 Lighting Poles with dedicated after-sales support

## Quality Assurance

At Utkarsh India, we follow the strictest industry norms to adhere to our supreme quality requirement standards.

- NABL Certificates for material-testing of Mast Shaft, Base Flange & Foundation Bolt (as per IS:2062)
- Lantern Carriage Material tests conforming to IS:1161/1239 standards
- NABL Certificate for Head Frame Die Cast Al Pulley and SS Shaft testing
- SS Wire Lifting Rope quality checks as per AISI 316
- Winch Lowering Mechanism & EPR, PCP Rubber Coated Trailing Cable verified as per standards
- Lighting Mast's Structural & Galvanization quality maintained as per IS:4759





# Product Range



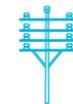
HIGH MAST LIGHTING SYSTEM  
(10m - 60m)



OCTAGONAL & CONICAL STREET LIGHTING POLE (10m - 60m)



DECORATIVE LIGHTING POLE  
(Starts from 3m - Length & Design as per requirement)



UTILITY POLE  
(Starts from 5m - Length & Design as per requirement)  
Camera Pole • CCTV Pole • Gantry Pole • Smart Pole • Distribution Pole



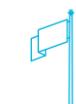
SPORTS LIGHTING STRUCTURE  
(16m - 60m)  
• Stadium Mast with Man-rider  
• Stadium Mast with Ladder



SIGNAGE MAST STRUCTURE UNIPOLE  
(10m - 60m)



SOLAR POLE & MAST STRUCTURE  
(3m - 20m)  
Solar High Mast • Solar Pole



FLAG MAST  
(10m - 60m)

## Designed To Excel For U

### Design

#### STRUCTURAL DESIGN

High Mast and Foundation Bolt designs conform to Technical Report no. 7 of ILE UK/PLG - 07 of ILP and IS 875 (Wind Loading) using a validated design process for each mast.

#### FOUNDATION DESIGN

High Mast and Foundation Bolt designs conform to Technical Report no. 7 of ILE UK/PLG - 07 of ILP and IS 875 (Wind Loading) using a validated design process for each mast.

#### MECHANICAL DESIGN

Upgradation of the mechanical design of the components using modern technology is an ongoing process for catering to customer demands.

#### ELECTRICAL SYSTEMS

Designed to select electrical accessories of optimum rating to offer safe and long life for the different power supply and Luminaire arrangements.

### Quality

100% physical verification done during procurement. Periodic sample testing is performed by an NABL-accredited test house.

#### RAW MATERIAL

100% testing is done for the Winch, Motor, Feeder Pillar, and light fittings. Periodic sample-testing of the Wire Rope is performed by NABL-accredited test house.

#### BOUGHT OUT ITEM/IN-PROCES S & FINISHED GOODS

Sample-testing is done as per the Manufacturing Quality Assurance plan.

# STEEL TUBULAR POLES

## Sky-High Standards for U

As the nation's leading brand of Swaged Steel Tubular Poles, Utkarsh is a premier Black Pipe manufacturer, ensuring best quality raw materials. Steel Pipes are made at our world-class ERW plants - the first facility in Eastern India with ISI certification.

Our Swaging Poles conform to the high-end IS: 2713 standards, manufactured with cutting-edge technology-driven machinery, integrated with Quality Assurance systems. While our current production capacity is 3,00,000 poles per annum, it can be extended to fulfill client requirements.

Available in galvanized and painted forms in all lengths, our poles are trusted for their quality and infrastructural capability, making Utkarsh the go-to brand for our technology process agility and resourcefulness.

### Manufacturing Process:

We use our state-of-the-art heavy-duty equipment to cut, swage and weld the poles. Our in-process and final inspection, in line with ISO 9001:2015 system, ensure quality and workmanship throughout the process. Our production capacity of swaged pole manufacturing is 3,00,000 poles per annum.



## The Utkarsh Advantage:

- We have **5 in-house 12.5m long Hot Dip Galvanizing facilities**, using only **Special High Grade Zinc (99.995% purity)** procured from Hindustan Zinc Limited. **We have in-house testing facilities** and **specialized manpower** to ensure standard coating and the best finish at all times.
- We **produce over 3000 MT per month of Steel Tubular Poles**, with **more than 1000 MT of ready stock of pipes in different sizes**, among other items, to ensure timely delivery. **We manufacture the complete range of products** required in a project and as per the lots and time frame required by the client.
- We **source our Steel/HR Coil from SAIL (Steel Authority of India Limited)**.
- Our **strict QA/QC team checks all pieces** of all lots at various stages from raw material procurement, during production and before dispatch **to ensure there are no errors** when the material reaches the site.
- **We always keep sufficient raw materials** in hand to ensure we can complete inspection (both stage and final) within 15 days, through direct or 3rd party inspection.
- **We provide excellent service during sales** as well as complete **after sales service**.
- **Our plants being located on the NH** enables easy transportation, and our **in-house logistics department** helps to find the most cost-efficient transport options around the country.

## Types & Applications of STP

### DISTRIBUTION POLES

This is the most conventional application, in which Utkarsh is the pioneer manufacturer. Based on Central and state DISCOMS requirements in floated tender, we have supplied lakhs of poles in varying lengths and weights, as per IS:2713, in both painted and galvanized forms.

### STREET LIGHTING POLES

We offer Steel Tubular pole solutions for the field of outdoor illumination. Street Lighting Poles start from 2m onwards and can be manufactured as per the customer's specifications.

Decorative Lighting Poles can also be manufactured as per customer's design requirements and scope.

We offer street lighting like solutions in options of red oxide painted / aluminum painted / and galvanized. We can also supply in single / double part as per customer requirement.

### SOLAR POLES

This application has recently gained ground, so according to client requirements, we have supplied solar poles of shorter heights such as 6 mtrs or below, as well as standard heights. Solar poles are mainly required in galvanized forms, which we have provided to various projects all over India, as single-length dia poles or swaged poles, as per project requirements. Solar poles are one of the main unconventional applications and we are very keen to enhance our production and sales capacity in this field.

### CANTILEVER POLES AND TRAFFIC SIGNAL POLES

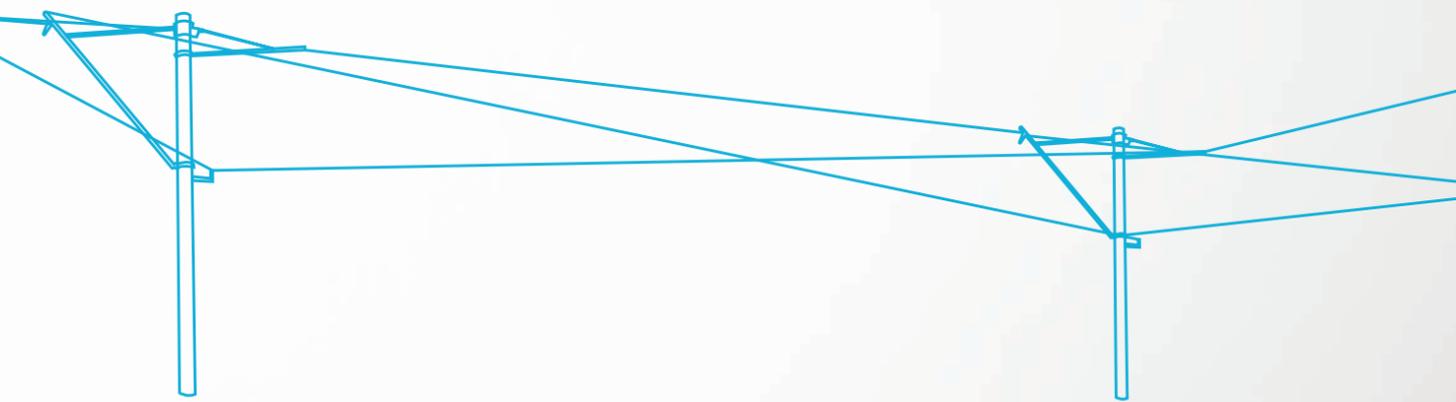
These poles are mainly used for traffic lighting and controlling purposes, especially in smart city projects. We have provided these poles in various projects such as Ranchi Smart City, Dehradun Smart City, Namchi Smart City, among others. These are one of the unconventional applications which have a wide range of uses, area and location-wise.



# RAILWAY ELECTRIFICATION STRUCTURES

## Powering safer journeys for **U**

Utkarsh India is a CORE approved PART I manufacturer of Railway Electrification Structures such as B-Series Mast, RSJ Mast, BFB Mast, TTC Mast, ONR Types Portals, SPS, TSS, SSP etc. As the largest producer of such structures in the country, we are helping to build future-ready railways, ensuring better, safer journeys for every Indian.



### The Utkarsh Advantage

- We have **2 world-class, CORE ALLAHABAD Part-I approved manufacturing facilities**, on NH6 at **Jangalpur**, Howrah and on NH2 at **Gurap**, Hooghly, in West Bengal. Spread over 100 acres with over 30 lakh sqft of covered shed area, the facilities are equipped to cater to client's requirements.
- We have **5 in-house 12.5m long Hot-Dip Galvanizing facilities**, using only **Special High-Grade Zinc (99.995% purity) procured from Hindustan Zinc Limited**. Our **in-house testing facilities and specialized manpower** ensure standard coating and the best finish at all times.
- We produce over **4000 MT per month of railway electrification structures**, with more than **1500 MT of Portals and SPS each**, among other items. We manufacture the complete range of products required for a project, as per the lots and time frame specified by the client.
- We source **steel only from SAIL and/or CORE-approved re-rollers manufacturing using SAIL material**, which are located near our plant, enabling us to procure materials faster.
- Our **strict QA/QC team checks all pieces of all lots at various stages from raw material** procurement, production and before dispatch, to ensure there are no errors when the material reaches the site.
- We **always keep sufficient indent to book the raw materials to ensure we can complete inspection (both stage and final) within 20-25 days through RITES**. So that we can offer immediate delivery to our clients.
- Our plants being located on the NH provides easy transportation, while our in-house logistics department helps to find the most **cost-efficient transport options around the country**.

## Production Capacity

<b>Production Capacity</b>	48,000 MT/Annum	Mast and TTC 30,000 MT/Annum	Portal and SPS 18,000 MT/Annum
<b>Services Provided</b>	Only Supply		
<b>Category</b>	RSJ & BFB Mast, B-Series Mast, TTC, Portal and SPS along with TSS & SSP		

## Production Ranges

Core Item ID: <b>4200001</b> , Fabricated and Galvanized Steel Structures for OHE and TSS	
<b>RSJ and BFB Mast</b>	All kinds of RDSO / CORE drawing approved Fabricated and Galvanized Rolled Steel Joist & Board Flanged Beam (Sub Item ID: 4200001001)
<b>B-Series Mast</b>	All kinds of RDSO / CORE drawing approved Fabricated and Galvanized B-Series Mast i.e. B-150, B-175, B-200, B-225, B-250 (Sub Item ID: 4200001002)
<b>TTC</b>	All kinds of RDSO / CORE drawing approved Fabricated and Galvanized Two Track Cantilever combination of TTU, TTB (Boom), TTK (Plate) (Sub Item ID: 4200001003)
<b>Porta</b>	All kinds of RDSO / CORE drawing approved Fabricated and Galvanized O, N, R Type Portals (Sub Item ID: 4200001004)
Core Item ID: <b>4200014</b> , Fabricated and Galvanized Small Parts Steel (SPS) for OHE and TSS	
<b>SPS along with TSS &amp; SSP</b>	All kinds of RDSO / CORE drawing approved Fabricated and Galvanized Small Parts Steel (Sub Item ID: 4200014001, 4200014002 & 4200014003)

## Types & Applications

### GUIDE TUBES

Utkarsh manufactures all diameters of Steel Tubes & GI pipes for various applications including Guide Tubes which are as per Railway's approved design/drawings. Utkarsh Galvanized ERW Steel tubes and counter weight guide tube (RI No. - 5063-1) are manufactured and tested fully as per relevant RDSO Specifications & IS, exercising proper quality control. Also, the galvanization of ferrous parts is to be carried out in accordance with RDSO specification No. ETI/OHE/13(4/84) with A&C Slip No. 1 to 4.

**PRODUCTION CAPACITY:** Upto 3000 MT Per Annum



### GALVANIZED ERW STEEL TUBES & COUNTER WEIGHT GUIDE TUBE

SN	Description	Size (OD X ID X THK) mm	Drawing No.	Specification
1	Small Tube	33.70 X 28.40 X 2.65	ETI/OHE/11 (5/89)	
2	Standard Tube	38.00 X 29.90 X 4.05		ETI/OHE/11 (5/89)
3	Large Tube	49.00 X 40.90 X 4.05		ETI/OHE/11 (5/89)
4	For Counter Weight	25mm (NB)	ETI/OHE/P/5060	IS 1239 P(1): 2004 & as per RDSO Specification ETI/OHE/49 (9/95) with A&C slip No. 1 & 5 & ETI/OHE/13 (4/84) with A&C slip No. 1 to 3
	Guide Tube	Light Class	2 Mod-C	
	RI-NO. 5063-1	Length-5600mm		

### ELECTRIC RAIL CLIPS

We are well-equipped with design facilities and are capable of supplying elastic rail clips MK-III, MK-V as per the rail section and toe load requirement of the railways. We also offer all arrangements for testing.

### Technical Requirements

As per Indian Railways Standard Specifications T-31 -2021, relevant RDSO Drawing RDSO/T-5919, RDSO/T-3701 & Approved Quality Assurance Plan by RDSO.

**PRODUCTION CAPACITY:** 5000 MT Per Annum

# TRANSMISSION AND SUBSTATION TOWERS

## More Power To U

At Utkarsh India Ltd, we manufacture Transmission Tower structures ranging from 33kV to 765 kV. Our diverse range of products includes Single Circuit, Double Circuit, and Multi Circuit towers, suitable for Twin, Quad and Hex conductors for both AC lines and HVDC lines.

## The Utkarsh Advantage :

- Utkarsh India Ltd provides distribution and transmission infrastructure solutions with expertise and technology.
- Customized solutions using innovative designs and new-age technologies for reliable power transmission.
- Focus on expertise, technology, and customer satisfaction for top-notch service.

SR NO.	LENGTH (in MM)	WIDTH (in MM)	DEPTH (in MM)
Plant No.-1	12500	1200	1500
Plant No.-2	12500	1200	1500
Plant No.-3	12500	1200	1500
Plant No.-4	800	1000	1500
Plant No.-5	800	1000	1500

- Bundling done section-wise and tower-wise as per customer requirements at the erection site.
- Prime raw materials sourced from SAIL, TISCO, RINL, Hindustan Zinc Limited.
- Full-fledged in-house welding facilities with qualified teams.
- Design Department equipped with latest hardware and ERP System.



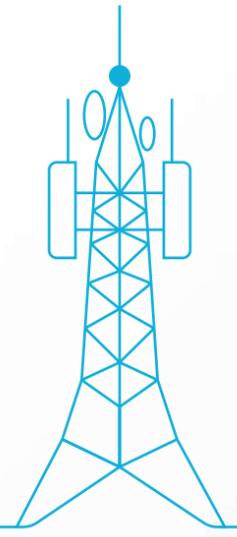
## Approvals :

We are approved by Power Grid Corporation of India Limited to manufacture towers for all voltage grades, with an approved manufacturing capacity of 30,400 MT per year for Angular towers. In addition, we are also approved with the following State Utilities:

- West Bengal State Electricity Distribution Company Ltd. (WBSEDCL)
- Bihar Grid Company Limited (BGCL)
- Bihar State Power Transmission Company Limited (BSPTCL)
- Uttar Pradesh Power Transmission Corporation Ltd (UPPTCL)
- Odisha Power Transmission Corporation Limited (OPTCL)
- Tamil Nadu Transmission Corporation Limited (TANTRANSCO)
- Assam Electricity Grid Corporation Limited (AEGCL)
- Gujarat Energy Transmission Corporation Limited (GETCO)
- Haryana Vidyut Prasaran Nigam Limited (HVPNL)
- Jharkhand Urja Sancharan Nigam Limited (JUSNL)
- Transmission Corporation of Andhra Pradesh Limited (APTRANSCO)
- Kerala State Electricity Board (KSEB)
- Damodar Valley Corporation (DVC)

<b>Classification</b>	Angular, Tubular or Hybrid
<b>Current</b>	AC Line or DVDC Line and MCMV
<b>Phase</b>	Single Phase Line or 3 Phase Line
<b>Circuit</b>	Single Circuit - vertical, horizontal & delta configuration towers
	Double Circuit line
	Multiple Circuit line
	Structural Steel in Latticed form
<b>Material</b>	Steel Tubular Sections & Monopoles
	Concrete construction
<b>EHT/VHT/UHT</b>	According to the Voltage carrying capacity
<b>Configurations</b>	66 kV, 132 kV, 220 kV, 400 kV, 500 kV, 765 kV, 800 kV





# Bringing The World to **U**

Utkarsh India Limited has a technical collaboration with RAMBOLL, a global leader & pioneer in the field of engineering, architecture and consultancy. Founded in Denmark in 1945, RAMBOLL provides its services to over 35 countries, and here in India they are our partners for Telecom Towers.

Today, Utkarsh has emerged as one of the leading manufacturers of both Angular & Tubular Telecom towers with the following manufacturing capacity:

Type of Tower	Monthly MT Capacity	Sets Per Month
Tubular telecom towers	4000 MT per month	500 + (towers)
Angular telecom towers	3000 MT per month	300 + (towers)

## Range Of Telecom Tower Structures

- Various kinds of Tubular GBT / GFT Towers up to 60M in height
- Various kinds of Rooftop Towers up to 9M in height
- Various kinds of Narrow Based Towers up to 25M in height (TRI BAND-TUBULAR)
- Various kinds of Welded Mast structures up to 25M in height

# Circular Poles

We have our own in-house pipe rolling facility where we manufacture various kinds of telecom poles of varying thickness such as:

- 6.0M Circular Pole
- 7.5M Circular Pole
- 9.0M Circular Pole

# H Poles

- Single Mount Poles - 3M
- Dual Mount Poles - 3M
- Dual Mount Poles - 6M
- Dual Mount Poles - 9M

Moreover, we are also an Approved Vendor of the Bharat Sanchar Nigam Limited for their 20 mtr, 30 mtr and 40 mtr Narrow Based Ground Based Towers.



# JAL MINAR WATER TANK STRUCTURES

## Bringing Life to **U**

We manufacture Jal Minars or Water Tank Structures made of strong, rust-free galvanized steel to keep water tanks elevated, ensuring seamless distribution of water. We have a manufacturing capacity of 1000+ Water Tank Structures per month, which ensures faster delivery to the customer.

At present, we manufacture galvanized structures for 2000 litre and 5000 litre tanks and 10,000 litre tanks or as per customer drawings and specifications.

## Salient Features

- Protected from untimely rust
- Safe from extreme weather conditions
- Provide better resistance by tolerating water stress
- Low maintenance and repairing cost
- Available for multiple tank sizes
- Easy to Install

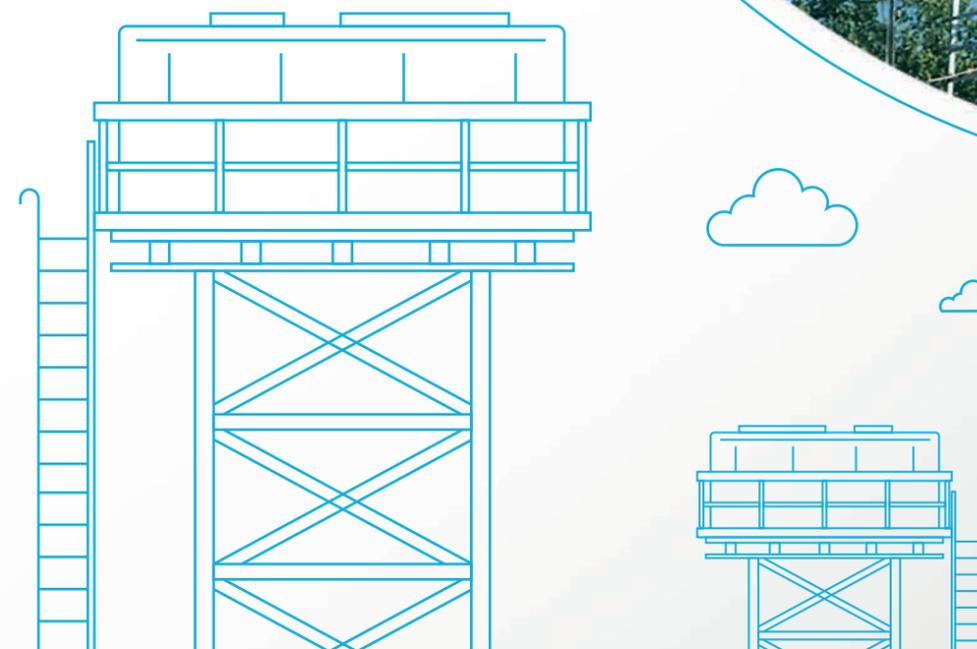
Size Availability	For 5000, 2000 Ltr Tank (As per specs)	10000 L Tank (As per specs)

## The Utkarsh Advantage

- Manufacturing capacity of 1000+Water Tank Structures per month
- Ready stock available at reasonable prices with fast delivery
- Raw material sourced from major players in the industry
- High reputation in government and private sectors
- Fabrication capacity of over 1 lakh MT

## Approvals

- Har Ghar Jal Yojana under Jal Jeevan Mission
- Public Health Engineering Departments



# PRE ENGINEERED BUILDING DIVISION

## Re-imagining Construction For U

- We have 40+ years of Manufacturing experience in stool fabrication/rolling/ farming We are also the market leaders in several heavy re-engineering products that we manufacture
- We are amongst the few manufacturing companies with the highest steel fabrication capacities and facilities across India doing more than 25,000MT/month of steel fabrication. We procure more than 3,00,000MT of steel annually to meet our production requirements
- We have proven experience of critical fabrication such as transmission line towers telecom towers, high mast poles, railway electrification structures, etc. Most of our products are installed in mega projects across the globe
- We are a team of highly experienced and qualified professionals to execute every project. Equipped with the complete in house production facility of fabrication testing quality checks, galvanizing painting, logistic and installation
- Our Client list for other Divisions includes big and known contractor/ EPC players in the country

### Utkarsh Pre-engineered steel Buildings are designed according to the following Codes / Standards

Primary (HR/Built-ups): IS/AISC/MBMA

Secondary (Cold form) IS: 801/AISI

Roof live load: IS/MBMA

Wind loads: IS/MBMA

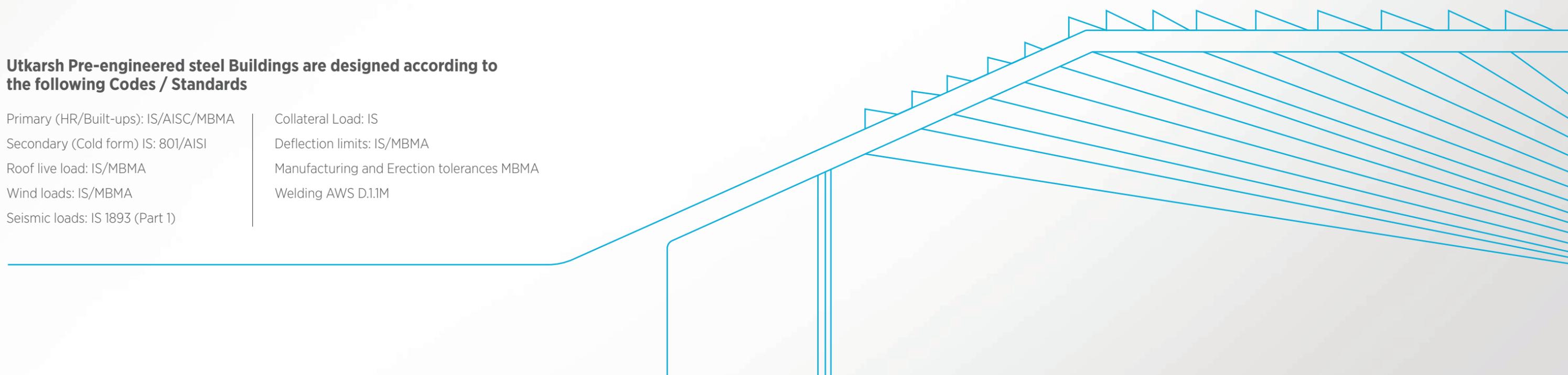
Seismic loads: IS 1893 (Part 1)

Collateral Load: IS

Deflection limits: IS/MBMA

Manufacturing and Erection tolerances MBMA

Welding AWS D.1.1M



# OUR CLIENTS



# APPROVALS & CERTIFICATIONS



# OUR PROJECTS

1. Delhi Mumbai Vadodra Expressway
2. Bhopal Indore Highway
3. Washim-Pangare Project
4. Purvanchal Expressway
5. Bharatmala Project, NH-227(Rajasthan)
6. Agra Lucknow Expressway
7. Bundelkhand Expressway
8. Samridhhi Expressway
9. Kolaghat & Bakreswar Thermal Power Station, under WBPDC
10. NH 19 Panagarh To Palsit, under NHAI
11. Willstrong Sololutions Pvt. Ltd. for IOCL, Chennai
12. Amrit Bharat Railway Projects under Central Railway (Nagpur) & Eastern Railway (Asansol)
13. Gati Shakti, Central Railway (Mumbai Division)
14. Rourkela Yard, S.E Railway (Chakradharpur Division)
15. Transformer & Modification of Switching Stations, Eastern Railway (Rampurhat)
16. 25 KV OHE, E.C Railway (Jharahi Kharound Section) Under New Bg Line Project

