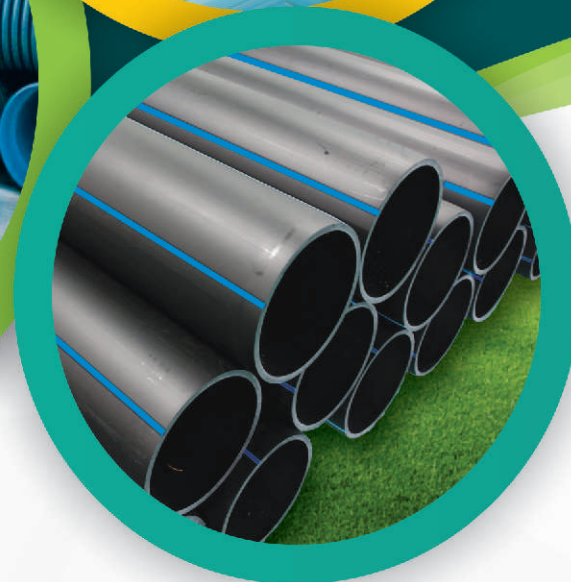
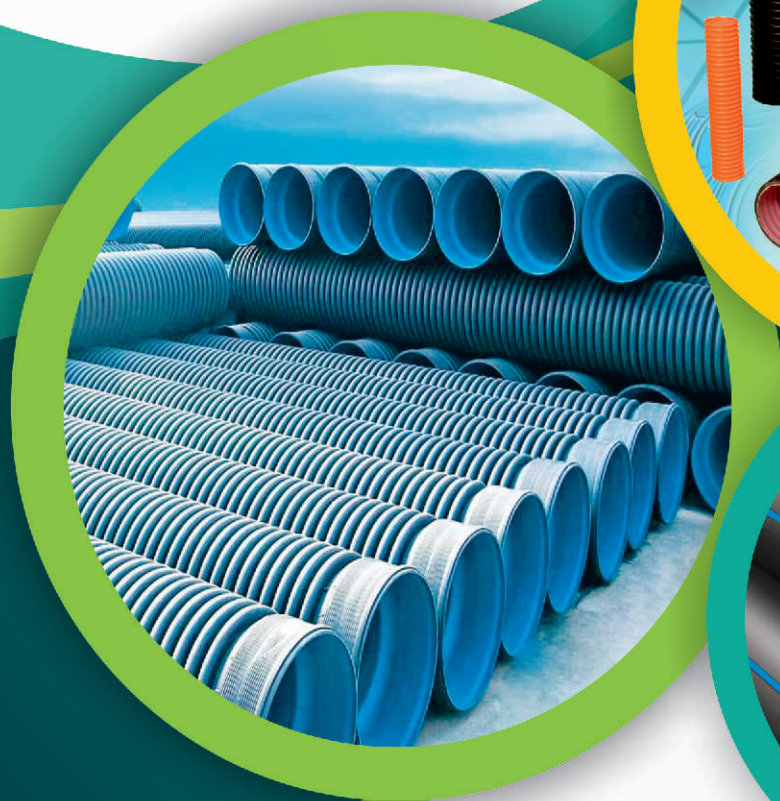




WONDER AGRITECH PVT. LTD.

Manufacturer of HDPE Pressure Pipes, DWC HDPE Pipes, PVC, cPVC & uPVC Pipes & Fitting.

WONDER AGRITECH PVT. LTD.

ABOUT US

Wonder Agritech Pvt. Ltd. belongs to the PK Group of companies. Working from a prime location of Indore (Madhya Pradesh), we are a proficient manufacturer of pipes and fittings from the past 35 years.

Being an ISO 9001:2015 accredited firm, the company has developed a Controlled Quality Management System which places great prominence towards providing finest quality. It is dedicated towards sustaining national and international quality standards at competitive prices. Therefore, we are having an edge over the counterparts owing to our reasonable rates and zeal to attain highest level of clients' satisfaction.

Also, in our endeavor to grow consistently, we are proud to say that **we are the pioneers in Madhya Pradesh for manufacturing of DWC HDPE Pipes.**

Belonging to the PK group of companies, we are always encouraged to grow and innovate products and processes for a greener and better tomorrow.

With over 3000MT/annum production capacity of HDPE Pipes and over 2500MT/annum production capacity of PVC Pipes, we are capable of supplying large quantities within a small time frame.

We are presently having our plant at Maksi (Dist. Shajapur M.P.) with the most contemporary and sophisticated machinery. We manufacture pipes for varied applications in the field of Agriculture & Irrigation, Construction, Plumbing, Sewerage, Water supply & cable ducting.

Our group concerns include :

- 1 **M/s Steel Castings of India Pvt. Ltd.:** Manufacturer of all type of metal castings since 1983 based in Maksi (M.P.)
- 2 **P. V. Sales Corporation :** Government Contractor firm.
- 3 **M/s Entrepot Infrastructure Pvt. Ltd. :** Warehousing and cold storage division.



PRODUCT RANGE

- ▶ HDPE Pipes & Fittings
- ▶ DWC HDPE Pipes & Fittings
(First manufacturer in Madhya Pradesh*)
- ▶ HDPE Cable Duct Pipes.
- ▶ PVC Pipes & Fittings
- ▶ C-PVC Pipes & Fittings
- ▶ U-PVC Pipes & Fittings
- ▶ CI Pipes & Fittings



PRODUCTS





ABOUT DOUBLE WALL CORRUGATED (DWC) HDPE PIPES

DWC HDPE Pipes offer a great cost effective alternative to conventional HDPE/PVC/RCC pipes. DWC HDPE Pipes offer high strength to weight ratio, long life expectancy and huge savings in laying of the pipes. They also offer high damage resistance against rodents, unanticipated digging works etc.

These pipes are made up of two layers of HDPE material. The outer layer is corrugated and provides high crushing strength while the inner layer is glass smooth which ensures easy passage for cables, conduits or sewer/drain water.

The pipes are manufactured for the following applications :

- ▶ **Tele-Wonder** : For conduit systems buried underground.
- ▶ **Drain-Wonder** : For sewerage and drainage applications.



TELE-WONDER – DWC HDPE Pipe for conduits and cables



APPLICATIONS

- ▶ Protection of optical fibre cables.
- ▶ Protection of cables at rail/road crossings.
- ▶ Protection of cables across water bodies.
- ▶ Protection of street light cables.
- ▶ Protection for pipes laid underground/underwater.
- ▶ Protection of copper cables, power cables and Low tension cables.

ADVANTAGES

- ▶ Light Weight
- ▶ Flexible
- ▶ Long life
- ▶ Chemical and flame Resistant
- ▶ Water tight and moisture proof
- ▶ Rodent repelling (On demand)
- ▶ Multiple colors available for easy identification



STANDARDS :

The pipes are manufactured in compliance with the following standards :

- Generic Requirements No. : GR/DWC-34/01 Sept 2007
(by TEC. Dept. of Telecom)
- IS 14930:2001 part 2.
- IS 16205 (Part 24):2017



FITTINGS

- Standard fittings can be supplied as per demand.
- Tele-Wonder pipes are supplied with special couplers which have inbuilt locking arrangement which ensure permanent coupling of pipes.

AVAILABLE SIZES -

S.No.	Nominal O.D. (mm)	Nominal I.D. (mm)	Standard Length (Mtr.)
1	40	32	6, 100, 200, 300
2	50	38	6, 100, 200
3	63	51	6, 100, 200
4	75	62	6, 100
5	90	76	6, 100
6	120	100	6
7	160	133	6
8	180	152	6
9	200	168	6

AVAILABLE COLORS :

- Standard : Outer layer- Black (other colors can be provided as per demand) • Inner layer : upto 9 colors can be supplied.

TELE-WONDER COMPARISON WITH OTHER CONVENTIONAL DUCTS

PROPERTY	TELE-WONDER	RCC PIPES	CORRUGATED METAL	PVC PIPES
Flexibility	Flexible and Versatile Suitable for various applications.	Rigid and unbendable.	Rigid and unbendable.	Rigid and unbendable. Limited application.
Transport and Handling	Handling is easy (20 times lighter than concrete). Low transport cost.	Heavy & brittle. Can break during handling & Transport. High Transport cost.	Very heavy. High transport cost.	Easy to handle.
Joints	Fewer joints. Can be supplied in Coil form up to 30 meters. Easy coupling jointing method.	Extra joints as supply length is 2M. Extra coupling material required. Ingress of external fluids is high.	Higher joints, as supply length is 6 meters. Additional Coupling material required. Ingress of external fluids is high.	Higher joints, as supply length is 6 meters.
Durability	Can bear heavy overloading. Can be laid in minimum soil cover (1-2 feet) and doesn't crack due to earth adjustments.	Susceptible to road salts and other chemicals. Requires quick replacement.	Susceptible to road salts and other chemicals. Requires quick replacement.	Average resistance. Shorter life

DRAIN-WONDER – DWC HDPE Pipe for sewer and drainage



APPLICATIONS

- ▶ Sewer projects
- ▶ Rain water drainage
- ▶ Highway and storm drainage
- ▶ Tube well casing
- ▶ Urban and industrial drainage

STANDARDS :

The pipes are manufactured in compliance with the following standards-

- IS 16098 part 2.
- Also as per EN 13476- 1&3

AVAILABLE COLORS :

- Standard : Outer layer- Black (other colors can be provided as per demand)
- Inner layer : upto 9 colors can be supplied.

FITTINGS : Standard fittings can be supplied as per demand.

AVAILABLE SIZES -

S. No.	Nominal O.D. (mm)	Nominal I.D. (mm)	Class	Standard Length
1	90	76	SN4 & SN8	6 Mtr.
2	120	100	SN4 & SN8	6 Mtr.
3	160	135	SN4 & SN8	6 Mtr.
4	180	150	SN4 & SN8	6 Mtr.
5	200	170	SN4 & SN8	6 Mtr.
6	238	200	SN4 & SN8	6 Mtr.
7	295	250	SN4 & SN8	6 Mtr.
8	345	300	SN4 & SN8	6 Mtr.
9	480	400	SN4 & SN8	6 Mtr.
10	580	500	SN4 & SN8	6 Mtr.
11	715	600	SN4 & SN8	6 Mtr.

ADVANTAGES

- ▶ **Light weight** : DWC pipes are up-to 65% lighter than smooth walled plastic pipes and up-to 95% lighter than RCC pipes.
- ▶ **Economical** : Due to its light weight, the pipes are cheaper than its counter parts by a very big margin.
- ▶ **Ease of Transportation** : Again due to its light weight, these pipes are easy to load, unload and transport.
- ▶ **Flexible** : The pipes offer great flexibility. They do not crack or deform under sudden impact caused by earthquakes or by unanticipated construction/digging work.
- ▶ **Ease of laying** : Being light weighted, these pipes can be laid easily even in difficult locations chemically inert and non-corrosive.
- ▶ **Long life** : These pipes offer a service of over 100 years.
- ▶ Water tight and leak proof
- ▶ Rodent repelling (On demand)
- ▶ Multiple colors available for easy identification.

Drain-Wonder pipes come with integrated couplers or simple couplers which ensure leak proof joints.

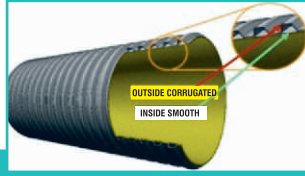


COMPARISON OF

DRAIN-WONDER DWC HDPE PIPES

VIS-À-VIS

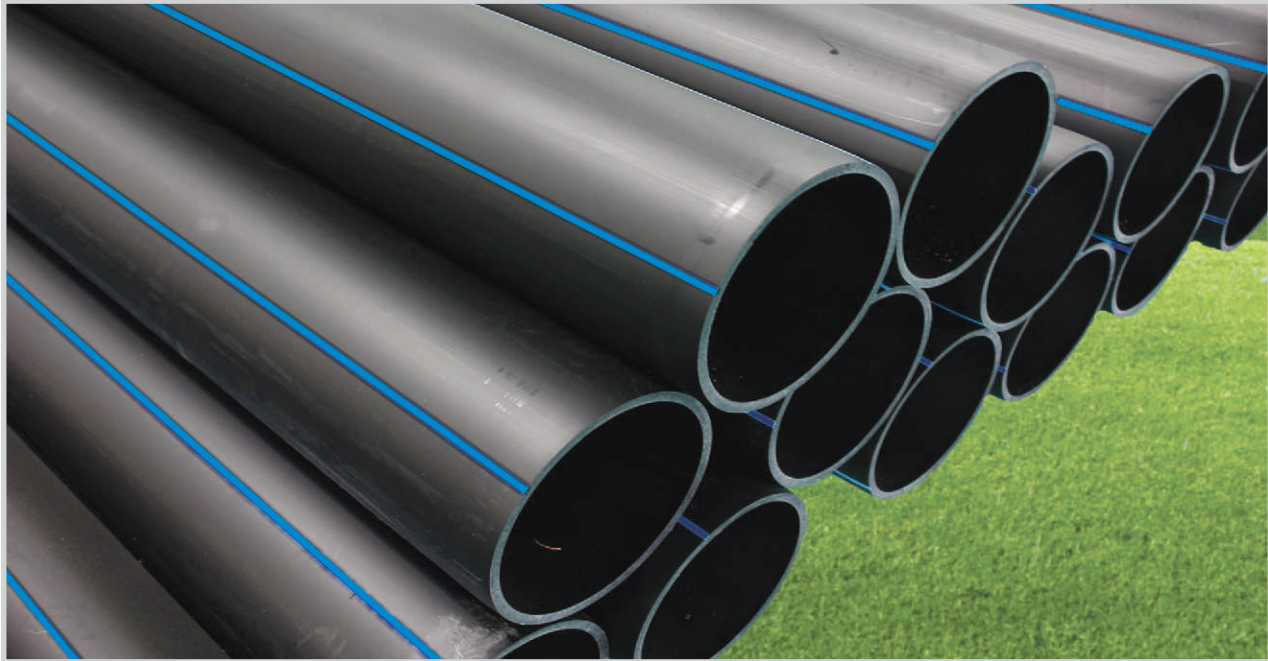
NON PRESSURE RCC PIPES



PROPERTY	DWC HDPE PIPE	CONCRETE PIPES
Metallurgical Property	Flexible pipe-good flexural strength, high tenacity, not brittle	Rigid Pipe - No Flexibility, high density, low tenacity, very brittle
Structural Property	Flexible Joints - allows deformation and movement that won't damage structure under external load. No additional structural protections in the form of bedding reinforcements are necessary.	When bearing external load, even very small deformation will damage the structure of pipe. Provision of additional structural bedding is almost imperative.
Hydraulic Properties	The glass smooth inner surface has Manning's 'N' in the range of 0.009-0.011 which virtually doesn't deteriorate during the entire life expectancy.	The flow resistance factor for NP RC Pipes is much higher (0.011 - 0.015) which also deteriorates very fast in 5 year ageing intervals as well.
Jointing System	Online Integrated Coupling system with electro metric seal ring for leak tight joints	Spigot & socket joints & sealing by cement mortar, additional coupling material required.
Water Tightness	Very good connection tightness, no leakage of sewage & no infiltration of ground water even in unfavorable bedding contour. Environmentally friendly since no chance of water & soil pollution.	Poor tightness, susceptible to leakage at joints, no flexibility for bending compatibility with bed contour. Possibility of environmental pollution due to sewage leakage.
Chemical Inertness	Immune to all corrosive chemicals and biological ingredients. No possibility of 'Crown Corrosion'	Deteriorates rapidly in contact with mild chemicals and biological contents. 'Crown Corrosion' is a chronic problem resulting in frequent system maintenance problems.
Life Expectancy	Designed Life Time expected up to 75 - 100 years. Time tested up to 40 years in various parts of world.	Maximum life not more than 30 years.
Installation time	Good flexibility, minimal requirement of foundation, no seasonal or temporal constraints in installations, good bending & flexural property, light weight, ease in transportation, handling and installation results in a favourably low installation time.	High rigidity, imperative requirement for structural bedding, cumbersome and intensive labour oriented transportation & handling, extensive requirement of equipments for lowering & installation.
Available lengths	Available in 6 (Six) Meter Standard lengths. Can be cut to any length by simple hand tools. Length can also be customized as per requirement.	Available in 2.5 meters lengths only. Cannot be reduced to shorter lengths by simple cutting at site.
Transportation & Handling	Due to light weight and flexibility, chance of damage during handling & transportation is negligible. Easy to ensure closed end water test at field after installation.	Highly susceptible to damage during transportation & handling. Once damaged, repair may not be at all possible. Almost impossible to ensure the closed end continuity test at field after laying which is an imperative necessity for gravity flow systems.
Maintenance Status	Because of favourable chemical and biological properties in relation to resistance to corrosion, incrustation and anti-scale formation, there is virtually no need for maintenance. Periodical pressure flushing will keep the inner surface of the pipe glass smooth for its entire life.	Considerable quantum of annual maintenance budget allocation is necessary to keep the system working. Conveyance capability would reach the bottom at the end of its 30 year design life.
Summary	- Due to - favourable hydraulic property - convenience in installation - light weight - longer life span - virtually maintenance free status - high flexural strength and flexibility - ease in handling and transportation - Socio-environmentally beneficial DWC HDPE Pipes are economically & technically more reliable than NP3 RC Pipes. All features taken into consideration, the DWC HDPE Pipes will be significantly cheaper and less time consuming to complete a total project in comparison to Non-Pressure Concrete Pipes.	



HDPE PIPES AND FITTINGS



APPLICATIONS

- ▶ For transportation of Potable water.
- ▶ Irrigation and sprinkling system.
- ▶ Chemical Processing Plants.
- ▶ Effluent Lines.
- ▶ Surface Water Drainage.
- ▶ Ventilation of Corrosive Gases.
- ▶ Relining of Old Sewers.

Available Pipe Sizes :

Material Grade	PE-63	PE-80	PE-100
Size	20mm-315mm	20mm-315mm	20mm-315mm
Pressure Rating	PN2.5-PN16	PN2.5-PN16	PN6-PN16

FEATURES AND SPECIFICATIONS :

STANDARDS :

Manufactured as per IS-4984 standard in PE-63, PE-80 and PE-100 grades.

- ▶ Manufactured from virgin pipe grade raw materials.
- ▶ Excellent corrosion and chemical resistance.
- ▶ Excellent flexibility combined with strength.
- ▶ Safe for potable water supply.
- ▶ High flow characteristics.
- ▶ Easy to handle & transport.
- ▶ Light in Weight.
- ▶ Up to 110 mm in straight lengths and coils. Higher sizes in standard straight lengths only.



HDPE Duct Pipe

Available sizes-

- ▶ 40mm/32mm
- ▶ 50mm/38mm

Colours-

As per requirement.



HDPE FITTINGS :

- ▶ Molded Fittings from 20mm-315mm
- ▶ Fabricated Fittings from 20mm-315mm
- ▶ Compression fittings
- ▶ HDPE D-Joints
- ▶ Service Saddle

WONDER PVC PIPES & FITTINGS RANGE



U-PVC SWR PIPE & FITTINGS

AS PER IS: 13592 (PIPES)
IS: 14735 (FITTINGS)

FEATURES & BENEFITS :

- Light Weight.
- High Chemical & Corrosion Resistance
- High Flow Rates
- Low Maintenance
- Cost Effective
- Quick & Easy Installation

APPLICATION :

- Domestic & Industrial Drainage System
- Rain Water System

PRODUCT RANGE :

- 75 mm to 160 mm Type A & Type B (Solvent & Rubber Ring Jointing System)

C-PVC PIPES & FITTINGS

AS PER IS: 15778 (PIPES)
ASTM D 2846 (FITTINGS)

FEATURES & BENEFITS

- Suitable for use up to 90°C
- Tough & Rigid
- Low Scaling / Corrosion
- Low Bacterial Growth
- Fire Resistance
- High Chemical & Corrosion Resistance
- Cost Effective / Quick & Easy Installation

APPLICATION

- Potable Hot & Cold Water Plumbing Systems for Residential & Commercial Usages.
- Industrial Piping Systems

PRODUCT RANGE

- 1/2" to 2"
- Pipe-SDR-11 & SDR-13.5
- Fittings - SDR - 11

U-PVC PLUMBING, PIPE & FITTINGS

AS PER ASTM : D 1785 (PIPES) ASTM : D 2467 (FITTING)

FEATURES & BENEFITS :

- Strong & Light Weight.
- Easy Solvent Cement Joint
- Smooth Inner Surface
- Corrosion Resistance
- Non Toxic
- Cost Effective

APPLICATION :

- Potable Cold Water Plumbing Systems
- Cold Water Piping System for Industries

PRODUCT RANGE :

- 1/2" to 2"
- Pipe - Schedule 40 & 80
- Fittings - Schedule 80.

U-PVC Well Casing & Screen Pipes

AS PER IS: 12818 & DIN 4925

FEATURES & BENEFITS :

- Non-corrosive & non-conductive
- Non-toxic, PVC imparts no taste to the water
- Does not support bacterial growth
- Long life & does not deteriorate as metal casing pipe does
- Lighter than steel in weight, so pipes are much easier to transport & handle.
- Easy to cut and fabricate whenever required

APPLICATION :

It is used to protect the Submersible Pipes that convey underground water to the surface.

PRODUCT RANGE :

- 40 mm to 200 mm

U-PVC PRESSURE PIPE & FITTINGS

AS PER IS: 4985 / 2000 (PIPES)

FEATURES & BENEFITS :

- Strong & Light Weight.
- Easy to Install
- Smooth Inner Surface
- High Chemical
- Fire Retardant
- Low Maintenance
- Cost Effective
- Non Conductive

APPLICATION :

- Water Distribution System
- Irrigation System
- Agriculture
- Industrial Water Circulation Systems
- Cable ducting

PRODUCT RANGE :

- 40 mm to 200 mm

For more details, please feel free to Contact :

WONDER AGRITECH PVT. LTD.

(A PK Group Company)

(An ISO 9001:2015 Certified Company)

Manufacturer of HDPE Pressure Pipes, DWC HDPE Pipes, PVC, cPVC & uPVC Pipes & Fitting.

Works : 6-A, Industrial Area, MAKSI - 465 106 (Dist.-Shajapur), M.P.

Mobile : +91 91091 60949, 91091 60948

E-mail : wonderpipesindia@gmail.com ♦ pkgroup1985@gmail.com

Website : www.wonderpipesindia.com



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