



**PARVATI GROUP**

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**MANUFACTURERS OF  
DWC PIPES**

**PARVATI POLYEXTRUSION ( I ) Pvt. Ltd.**

An ISO 16098-2 Certified Company

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**PARVATI Polyextrusion (I) Pvt.Ltd.**  
Double Wall Corrugated Pipes

Every few years there comes an organization that redefines standards and revolutionizes the way we live. PPIPL strives to be one such company where we create innovative products using environmentally friendly technology for a better tomorrow. We follow stringent ISO standards to deliver the highest quality products to our domestic markets. PPIPL began as an effort to bring an advanced innovative product to the Indian market. We took up the initiative of improving the manufacturing of Double Wall Corrugated Polyethylene ( DWC ) Piping system for underground non - pressure waste water conveyance applications.

**Parvati DWC Pipes**

Parvati pipes are Double wall corrugated pipes made with High Density Polyethylene material. They are externally corrugated and have a glass smooth surface inside. These pipes have a very high strength because of its design, are economically viable, have a very long life expectancy, and enumerable socio - environmental benefits that make them the most suitable pipes for underground sewerage and drainage applications. DWC pipes are used all over the world as a standard in efficient waste water collection and transportation networks for the last 40 years. These pipes help municipal bodies, urban conglomerates, agricultural drainage, and industries to manage their waste water and rain water very efficiently. Parvati pipes once installed are maintenance free, which allows it to lie underground for years. Such a system will not only protect the environment but also your investment.

Manufacturing is done through a comprehensive environmentally friendly process certified by **Indian Standard IS 16098-2**. CPHEEO, the Central Government Environment and Engineering Policy Making Body, has also recommended the use of Double Wall Corrugated pipes for Indian Sewerage and Drainage applications which is included in the latest manual.



Sizes	Nominal I.D.(mm)	O.D. (mm)	Stiffness Class	Length (m)
01	100	120	SN 4 or SN 8	6
02	150	180	SN 4 or SN 8	6
03	200	238	SN 4 or SN 8	6
04	250	290	SN 4 or SN 8	6
05	300	345	SN 4 or SN 8	6
06	400	480	SN 4 or SN 8	6
07	500	575	SN 4 or SN 8	6

**Fittings :** Various Fittings and Accessories for all sizes are available on request.



**Superior Coupling Technology :**

Parvati pipes are manufactured with online integrated coupling or simple offline couples to make it very convenient for installation and to minimize any leakages in the system. Jointing is as simple as push to fit using an elastomeric sealing ring to ensure leak proof joints with no possibility of infiltration or ex - filtration.



**Application of Parvati DWC**



**Sewerage Projects**

Highly corrosion resistant therefore ideal for long applications in adverse conditions.

**Effluents disposal and Industrial drainage**

Ideal especially in time constrained industrial construction activities.

**City & Urban Clusters**

Simple and fast installation, easier handling and transportation which overcomes socio - environmental issues with underground pipe installations.

**Domestic & AC Vents, Garbage Chutes**

Multifarious indoor use providing reliable and economical solutions.

**Highway and storm drainage**

Anti leakage couplings create maintenance free drainage corridors.

**Earthquake prone areas with high tectonic movements**

High strength to weight ration and flexibility helps adapting to uneven ground or earth movements.

**Rainwater drainage**

Easy drainage systems for agriculture, highways, cities and metropolitan areas.

**Shallow and drainage**

Ensures high strength casing protection for tube well pipes.

**Facts and Figures**

- 95% lighter than Concrete pipes.
- 100% Recyclable at the end of its usable life.
- 1 KM of 500 Parvati pipes can be transported in 8 trucks.  
Reduces transportation cost by 40% or more
- 30% lower annual amortized costs as compared to Concrete pipes.
- 3 times longer life compared to Concrete Pipes.
- 2.4 times longer in length, fewer joints to ensure better leakage protection.
- Co<sub>2</sub> emissions for Concrete pipes is over 3 times that of plastic pipes.



**Quality, Standards & Certifications**

Our testing facilities are capable of performing the most stringent tests required as per the **ISO16098**. This allows us to maintain a superior products quality which can be constantly monitored and improved over time. We are also certified by the **ISO 9001:2008** as we ensure documentation and standardization of all over process.

The essential tests for double wall corrugated polyethylene pipes as conducted in our laboratory are listed below:

- Ring Flexibility.
- Ring Stiffness.
- Creep Ratio.
- Water Tightness Test.
- Tensile Test.
- Melt Flow index Test.
- Impact Test.
- Environmental Stress Cracking Resistance Test.
- Oxidation Induction time.

