



BERLIA ELECTRICALS PVT. LTD.

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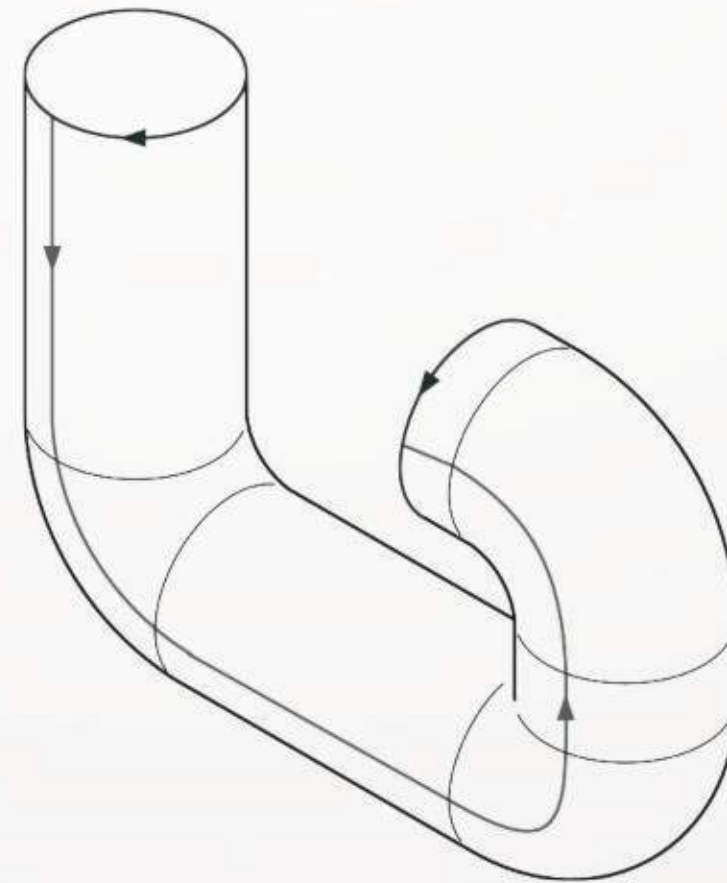
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BERLIA[®]

HDPE PIPES





Welcome to Berlia Pipes

Vision

To procedure, Trust in Relationship, Stability in quality, a leading role in the Market & Greater levels of satisfaction for the stake holders

Mission

To have a Presence across Nation with well established supply chain, cost efficiency in production, standards in Quality & procedures, & emphasis on continual innovation

About Us

Berlia Pipes is a well known established concern, manufacturing variety of pipes since 1975. We have our expertise in manufacturing a varied range of plastic pipes, providing complete solution for Potable water supply, High pressure irrigation, Sewerage & Dewatering applications, Wire ducting, Grouting/Anchoring applications, etc.

Quality products served with an essence of continual innovation assures for our success. To ensure high quality performance, we use virgin material for Extrusion and conduct various tests to ascertain that the products are being produced as per the guidelines of Indian/International standards. Right from testing the grade of raw material to marking we apply a number of tests to check the quality, strength & performance of our products.

At Berlia, with a well established supplier's network we follow the concept of Just in time manufacturing ensuring lowest cost of production with minimum stock level which enables us to deliver the best quality customized products at lowest prices.

We are an ISO 9001:2008 Company accredited from TUV Rheinland, manufacturing a range includes HDPE Pipes & Fittings for all sizes ranging from 20mm to 500mm in all pressure classes ranging from PN2.5 to PN25, under material grades PE 63/80/100 in compliance to various standards like ISI, ISO, DIN, BS, MS, EN, AS. We have recently launched FR Ducts (Fire proof HDPE Pipes) tested as pr UL 94 at V0 level, ideal for cable ducting applications.



Our Products

HDPE Pressure Pipes

Pipes made from Polyethylene (PE) is a cost effective answer for a number of piping problems in Metropolitan, Municipal, Industrial, Underwater, Mining, Cable duct and agricultural applications. It has been tested and proven effective for underground, above ground, surface, under water as well as floating pipe applications.

BERLIA pipes are strong, extremely tough and long lasting, appropriate for long service, trouble-free installation, flexibility, resistance to corrosion and chemicals.

At BERLIA, we have recently innovated FR (Fire Resistance) Ducts at V0 Level for Cable Ducting applications, tests conducted as per UL94.

PROPERTIES	VALUE
Properties Recommended Service Temperature	-45°C to 55°C
Vicinate Softening Temperature	125°C
Decomposition Temperature	360°C
Ultra Violet Stability	Excellent
Flow Factor (C Factor in Hazen Williamson formula)	150
pH factor of Conveyed Fluid	1.0 to 14.0
Melt Flow Factor	0.20 to 1.10 gms in 10 min
Reversion	Less than 3%
Density	940.0 to 958.0 Kg/m ³
Impact Strength	Excellent
Resistance to Abrasion	Excellent
Life Expectancy	more than 50 Years

Our Product Range

Diameter (Outer):	16mm to 500mm
Material Grades:	PE63/80/100
Pressure Ratings:	From PN 2.5 to PN 25
Fittings/Specials:	HDPE Fittings/Saddles Moulded & Fabricated from 20mm to 500mm PP Compression Fittings (Push Fit) up to 110mm & Ball Valves Electro fusion Fittings for various sizes.
Welding Machines: Standard reference	Welding machines & teflon heaters for pipes ranging from 63mm to 500mm
For Pipes	IS 4984, IS 14333, IS 14151 (Part-I & II), IS 9537, ISO4427, GR/CDS (TEC/DOT), DIN 8075, BS 6437, AS4130, EN 12201, UL94 (FR)
Fittings	IS 8008, ISO 4427

Product Applications

HDPE pipe is an environmentally sustainable option as it is non-toxic, corrosion and chemical resistant, has a long design life, and is ideal for trenchless installation methods because of its flexibility. When fused together, HDPE has a zero leak rate because the fusion process creates a monolithic HDPE system.

Pressure Pipe for Infrastructure (Water supply & Sewerage)

HDPE Pipe for water supply & sewerage from 20mm to 500mm nominal diameter as per various National & International standards in PE 63/80/100, Pressure Rating PN2.5 to PN25.

- Used in Rural/Urban government schemes for Potable water supply, BERLIA HDPE do not constitute toxic hazard, do not support microbial growth and would not give rise to unpleasant taste or odour, cloudiness or discoloration of water.
- HDPE Pipes in larger diameter are used for Sewerage facilities
- HDPE/MDPE Pipes (also known as Pe-X Pipes) are used for House service connection



HDPE Pipe for industrial application

HDPE due to its inert properties found application in handling chemicals, brine, sour water, etc. It is also found appropriate in slurry & sand pumping due to its abrasion resistance quality.

Agriculture & Landscaping

Berlia manufactures complete range of sprinkler irrigation equipments & fittings/accessories used as per IS 14151 (Part-I & II), Sprinkler irrigation system are used for agriculture & Horticulture Mini sprinkler sets are used in Landscape irrigation system Used in Coil form for submersible Pump in shallow & deep tube well Duct for various cable laying applications BERLIA HDPE Ducts/PLB Ducts (With Rope) are available with inner silicon lubricant for friction less cable insertion & 4mm nylon pulling rope inserted for cable pulling with ease.

- PLB Ducts are used for cable laying applications through open trench/Trench less method and are used for insertion of OFC/Coaxial laying for CCTV & other networking applications.
- Monolayer HDPE Pipes as per IS 4984 also used for trenchless/open trench Low/High tension cable laying.

FR (Fire resistant) Ducts

We have recently launched FR Ducts for Fire proof HDPE Pipes tested as pr UL 94 at V0 level, ideal for High / Low Tension cable ducting & are also effective when used as conduit for in-house cable Ducting/OFC Ducting

Fittings & Specials for various applications

Fabricated & Moulded Tees/Bends/Flanges/Saddles upto 500mm are used in various water & cable laying applications. BERLIA HDPE Fittings are jointed through Butt Welding technique & are leakproof. PP Saddles are used for the purpose of house connection & are accessible to BSP fittings.

- BERLIA PP Compression fittings available up to 110mm are meant for all water & cable laying applications, compression fitting are leakproof & are suitable for cable blowing for cable insertion.
- Electrofusion fittings comes with in built electrical heating element, which generated heat when connected to electrical source. The resulted heat fuses the fitting with the pipe uniformly offering an extremely reliable

For Anchoring (Grout & Sleeve)

Berlia HDPE Grout & Sleeve pipes are appropriate for Anchoring. Various Prestigious companies in Geostucture Projects are using our products. In grouting process HDPE Pipes with capacity to withheld high pressure are used, since now we have successfully implemented various projects.

Perforated Pipes

We have successfully done various designs of perforation on varied sizes up to 500mm, Perforation could be done as per specific design or random perforation as per the requirement. We have well equipped team for perforation with years of experience & ability to understand & customise to cater best results in minimum cost.

WELDING Machines/Teflon Heater (Mirror) & other accessories for Butt Welding

Welding machines with a capacity of jointing of HDPE Pipes & Fittings up to 500mm are used for jointing of HDPE Pipes through Butt welding Technique. Jointing through Butt welding technique is most efficient & cost effective.

Special sizes for specific applications

Berlia manufacture special sizes of HDPE Pipes for specialized purpose as per the specific requirement of the consignee, we like to experiment & Innovate whenever necessity arises.

Property	HDPE	P.V.C.	Mild Steel (MS)
Life	50 years underground.	More than 20 years (When not exposed to sun)	Less than 10 years under protection
Health Hazard	No additives during Manufacturing, Hence totally safe	Lead based stabilizer causes long term health hazard	Corroded pipes allow out side contaminated water to seep into the system.
Weathering Resistance	Good due to presence of Carbon Black	Tends to becomes brittle when exposed to sun.	Poor resistance against Corrosion and chemicals
Recommended Temperature	"-40 to 50 Deg C"	"+1 to+45 deg C"	Can stand any temprature
Chemical Resistance	High degree of resistance to acids alkalis and high anti corrosive properties	Moderate resistance to most alkalis and acids	Poor
Water hammer characteristics	Excellent water hammer characteristics. 50% better than in MS and 30% better than PVCpipes	Need higher diameter pipelines to control surge pressure under similar conditions as that of HDPE	Poor resistance absorb surge wave. Needs thrust blocks.
Flexibility	Highly Flexible Can be sent over curves. Requiring very fewer fittings	Limited flexibility and requires lots of fitting and specials during installation	Highly Rigid. Needs huge fittings and specials
Maintenance	Virtually Maintenance free	Regular Maintenance to replace broken parts.	High Maintenance after few years of use
Soil Settlement	Resistance to ground movement, even earthquakes	Poor resistance to Soil movement	Poor resistance to Soil movement
Friction to Flow	Smooth inside surface. C Factor-50, Lowest resistance to flow	Smooth inside surface. C Factor-50, Lowest resistance to flow	Rough inside surface. Roughness increases with age



Our Esteem Clients

