



BUILDINGS • AGRICULTURE • INFRASTRUCTURE • INDUSTRIES



MIRAJ PIPES & FITTINGS PVT. LTD.

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• INTRODUCTION •

MIRAJ PIPES AND FITTINGS PRIVATE LIMITED is a group company of MIRAJ GROUP of industries headed by Chairman Shri Madan Lal Paliwal. Rajasthan Based MIRAJ is a highly diversified, multi-core Group having its presence in various segments including Tobacco, Miraj Pipes & Fittings, Real Estate, Stationery, FMCG, Engineering and film production and many more. The group is growing multifold and is amongst the fastest growing organizations in the region.

Incepted in the year 2004, Miraj Pipes and Fitting Private Limited is counted for offering top class quality PVC Pipes and fittings, HDPE Pipes and Sprinkler. Our State of the art infrastructure is spread over more than 6 laces sq. Ft area and is equipped with the latest and technologically advanced machines to deliver small or bulk orders with excellence. We have an in-house R&D facility to develop innovative products and Laboratory to Provide Products as per ISI standards. With a Total of 18 Machines for uPVC, CPVC, HDPE & Fittings, the company has a production capacity of 55640 MT. the company is growing and is being reckoned as quality manufacture of Plastic pipes.

The wide range of products MIRAJ Pipes offer are RIGID PVC pipes and fittings, SWR pipes and fittings, Elastomeric pipes, Underground Sewerage Pipes, CPVC and uPVC plumbing Pipes and fittings, HDPE pipes and fittings, Sprinkler pipes and fittings, Conduit pipes and fittings, MDPE pipe, Column pipe, Blue Casing Pipe, Gas pipe and solvent cement for diverse application in agriculture, housing, industries etc. We recently have launched "MIRAJ Rainwater harvesting system" and "Miraj Green House Tunnel" Which adds more diversification to our product portfolio. We hold valid licenses of B.I.S. ensuring the product quality and testing procedure.

MIRAJ PIPES AND FITTINGS PRIVATE LIMITED Quality Policy is, to be committed for offering quality products to ensure customer satisfaction through continual up-gradation in technologies and systems with involvement of suppliers, customers and employee.

Total Quality, Customer satisfaction and Creating value for our stakeholders is our ultimate goal as our motto says

“आपका विश्वास ही हमारी पहचान”

MIRAJ CPVC PLUMBING SYSTEM

FOR HOT & COLD WATER



Made of chlorinated polyvinyl chloride, cPVC Pipe & Fittings are used for transportation of hot as well as cold water. Our products range includes products manufactured as per specification No IS 15778 of BIS.

Pipes & Fittings Range

- Size: 1/2" to 2" - Range: SDR 11 & SDR 13.5
- Size: 2 1/2" to 4" - Schedule 40 & Schedule 80



APPLICATION

- High rise residential buildings, complexes and societies.
- Condominiums.
- Hotels.
- Offices.
- Solar water heaters and geysers.

BENEFITS

- Quick, easy and aesthetic installation
- No corrosion, leakage, scaling, pitting.
- Tough and Reliable
- Cost Effective
- Low Thermal expansion.
- Bacteria resistant.

PRODUCT PROPERTIES

cPVC IS : 15778

Test	Test Method	Specification	Result
Opacity	IS : 12235 (Part 3)	Shall not transmit more than 0.2 % of visible light.	OK
Vicat Softening Temp.	IS : 12235 (Part 2)	Vicat softening temp. shall not be less than 110° C	OK
Internal Hydrostatic Pressure	ASTMD 1599	SDR 11 - 87 kg/cm ² (min) SDR 13.5 - 70 kg/cm ² (min)	OK

MIRAJ CPVC PLUMBING SYSTEM

FOR HOT & COLD WATER



CPVC Fittings as per ASTM D 2846



Elbow – 90'



Elbow – 45'



Brass Elbow



Tee



Cross Tee



Brass Tee



End cap



FAPT



FABT



MAPT



MABT



Reducing Bush



Reducing Socket



Ball Valve



Union



Step Over Bend



Tank Adaptor



Reducing Tee

MIRAJ uPVC PLUMBING PIPES & FITTINGS



It is an ideal replacement of galvanized iron pipe system and is UV protected to facilitate leak proof joints. Our products range includes products manufactured as per ASTM D 1785.



BENEFITS

- Distribution of clean and hygienic water.
- Corrosion free.
- Ensures higher and smooth flow tube-well connections.
- Low maintenance and installation cost.
- Light weight, convenient to handle, store and transport.
- No effect of weather and sunlight due to ultra violet protection.

PIPES & FITTINGS RANGE

1/2" to 6"

PRODUCT TYPE

SCHEDULE 40, 80 and 120.

APPLICATION

Cold water Distribution system for bathroom, kitchen, toilet and garden in residential blocks, offices, commercial complex, factories, laboratories, as well as bus stands, airports, railways, hotels and hospitals.

PRODUCT PROPERTIES

ASTM : D1785

Test	Test Method	Specification	Result
Flattening	ASTM : D1785 Clause - 8.6	No evidence of splitting, cracking or breaking	OK
Burst Pressure	ASTM : D1599	SCH 40 - (1/2" - 139.7 kg/cm ² , 1" - 101.25 kg/cm ²) SCH 80 - (1/2" - 191.29kg/cm ² , 1" - 142 kg/cm ²)	OK

MIRAJ uPVC PLUMBING PIPES & FITTINGS



Fittings as per ASTM D 2467



Elbow - 90°



Elbow - 45°



Brass Elbow



Tee



Brass Tee



MTA



Brass MTA



FTA



Brass FTA



Coupler



Reducing Bush



End Cap



Union



Reducer

MIRAJ SWR PIPES & FITTINGS



Manufactured from compounded Poly Vinyl Chloride Resin, our Product range includes products as per specification No IS 13592 of BIS for pipes & IS 14735 of BIS for fittings.

PRODUCT TYPES

- **Pipes:** Self fit – Type A and Type B, Fix O Ring Socket – Type A and Type B
- **Fittings:** Self fit & Fix O Ring Socket

PRODUCT RANGE - Self fit, Fix O Ring Socket - Type A and Type B

- **Pipes:** 40 mm to 315 mm
- **Fittings:** 75 mm to 160mm

APPLICATION

- Drainage system for home, office, hotel, residential/commercial complex, airport, railway/bus station, theater/cinema hall and hospitals etc
- In industries, chemical plants, power plants, drainage of chemical waste, overflow lines and transportation of acid and alkaline material
- Water recharging systems.

BENEFITS

- Easy to install
- Economical
- Specially compounded to withstand rugged outdoor installation
- Smooth finish to ensure no chocking
- Easy Maintenance



PRODUCT PROPERTIES

IS : 13592

Test	Test Method	Specification	Result
Vicat Softening Temp.	IS : 12235 (Part 2)	Minimum 79°C	OK
Tensile Strength	IS : 12235 (Part 13)	> 458 kg/cm ²	OK
Resistant to Dichloromethne @ Specific Temp.	IS : 12235 (Part 11)	Excellent gelation of the PVC Material	OK

MIRAJ RIGID PIPES & FITTINGS



कृषि विभाग एवं होर्टिकल्चर विभाग द्वारा सब्सिडी के लिए मान्यता प्राप्त

Manufactured from Un-plasticized Poly Vinyl Chloride, our product range includes the products as per Specification No IS 4985 of BIS for pipes & IS 7834 of BIS for fittings.

WORKING PRESSURE RATING

Pipes: 2.5 kg/cm² to 12.5 kg/cm²

PRODUCT RANGE

Pipes: 20 mm to 400 mm

Fittings: 40 mm to 150 mm

APPLICATION

- For transportation of Potable water.
- Irrigation system.
- Chemical transportation.
- Effluent Lines.
- Surface Water Drainage.
- Relining of Old Sewers.
- Horticulture and Green House Technology.



BENEFITS

- Strong and Durable
- Light Weight
- Convenient Jointing
- Leak Proof
- Energy Saving
- Resistant to moisture, corrosion, abrasion and wearing
- Maintenance free



PRODUCT PROPERTIES

IS : 4985

Test	Test Method	Specification	Result
Opacity	IS : 12235 (Part 3)	Maximum 0.2%	OK
Reversion	IS : 12235 (Part 5)	Maximum \pm 5%	OK
Internal Hydrostatic Pressure	IS : 12235 (Part 8)	@27°C, Test Duration - 1hr. Pressure - 4.19 x PN kg/cm ²	OK

MIRAJ HDPE PIPES & COILS



कृषि विभाग एवं होर्टिकल्चर विभाग द्वारा सब्सिडी के लिए मान्यता प्राप्त

BENEFITS

- Flexibility and perfect weld ability.
- Abrasion and wear resistant.
- Chemical resistant.
- Low co-efficient of friction.
- Tough, Strong and Low Weight.
- Weather Resistant.



Manufactured from High Density Poly Ethylene Polymers our product range includes products as per Specification No. IS 4984 of BIS.

Product Range

Sizes: 20 mm to 400 mm

Pressure Rating: PN – 2.5 kg/cm² to 16.0 kg/cm²

Grades: PE - 63, 80 and 100.

Length: Available in pipe and coil form in different sizes.



APPLICATION

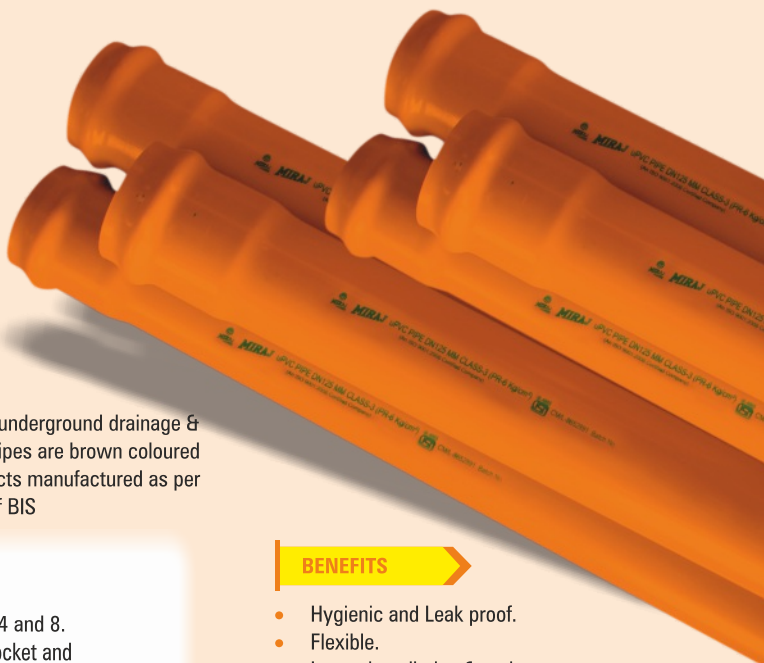
- Used in Water supply distribution System.
- Replacement of G.I. Pipes in borewell application of Submersible Pumps.
- For suction and delivery lines of jet pumps and centrifugal pumps.
- Used for disposal of corrosive effluents chemicals, treated/untreated waste, acids and alkalis for conveying edible oils, fruit pulp, juices, milk and other products.
- Can be used for carrying Soil, Waste etc to appropriate drains or sewers through an underground network of pipes.
- Can be used as ducts for Air conditioning and Ventilation.
- Used for industrial waste treatment plants and water treatment plants.
- For disposal of sand slurry in dredging operations and for transporting slurries of Iron Ore, Fly Ash etc.

PRODUCT PROPERTIES

IS : 4984

Test	Test Method	Specification	Result
Base Density @ 27°C	IS : 7328	930 to 960 kg/m ³	OK
Hydrostatic Characteristics	As per IS : 4984 Annex - E	Shall show no sign of localized swelling, leakage or weeping and shall not burst. (at 80°C, PE 63-3.87 kg/cm ² /48hrs PE 80-4.99 kg/cm ² /48hrs, PE 100-5.81 kg/cm ² /48hrs)	OK
Longitudinal Reversion Test	As per IS : 4984 Annex - C	Max 3%	OK

MIRAJ UNDERGROUND SEWERAGE PIPES



Made specifically for use in underground drainage & sewerage systems. These pipes are brown coloured and our range include products manufactured as per Specification No IS 15328 of BIS

Product Range

63 mm to 400 mm

Pressure Rating: SN-2, 4 and 8.

Type : Solvent cement socket and Elastomeric sealing ring

APPLICATION

Designed to carry the soil & waste from the Drainage Systems to appropriate drains or sewer through an underground network of pipes.

BENEFITS

- Hygienic and Leak proof.
- Flexible.
- Lower installation & maintenance costs.
- Immune to galvanic or electrolytic corrosion thus ensuring long life.
- Ease of Installation and Handling.
- Excellent Stiffness and Impact Resistance.

PRODUCT PROPERTIES

IS : 15328

Test	Test Method	Specification	Result
Colour	IS : 15328 Clause 7.2	Dark Brown	OK
Ring Stiffness	IS : 15328 Clause 8.2	For SN2 - 2 kN/m ² For SN4 - 4 kN/m ² For SN8 - 8 kN/m ²	OK

MIRAJ LATERAL PIPES



Our product range includes product manufactured under specification IS 12786 of BIS.

Product Range

- 12 mm – 32 mm.

BENEFITS

- Greater yields
- Uniform plant growth
- Quick return of investment due to precise delivery of fertilizer and water
- Easy handling & Installation

APPLICATION

Used in drip irrigation system and mini sprinkler system.

MIRAJ UPVC CASING PIPES



Our range includes pipes designed as per IS 12818.

APPLICATION

used in Domestic, Industrial and Agriculture
Tube well and Bore well application.

PRODUCT RANGE

Up to 400mm in CM, CD, CS & RMS

BENEFITS

- Suitable for all type of soil.
- Maintenance free, corrosion free and resistant to chemical reaction and biological formation.
- Easy installation/joining.
- Light weight.
- Strong and Durable.

PRODUCT PROPERTIES

IS : 12818

Test	Test Method	Specification	Result
Tensile Strength	IS : 12235 (Part 13)	>458.9 kg/cm ²	OK

MIRAJ COLUMN PIPES



PRODUCT RANGE

Range : 1 inch to 4 inch

10 kg/cm², 12 kg/cm², 15 kg/cm²,

Medium, Standard, Heavy Bell & Coupler Type

APPLICATION

Used for submersible applications and is Suitable for upto 300 mtr depth.

BENEFITS

- Non corrosive.
- High Impact and High Tensile strength.
- Smooth Thread.
- Special Coupler Lock with Self Lock.
- Easy Installation.
- Adjustable according to the depth of water level.

PRODUCT TEST RESULT

Test	Test Method	Specification	Result
Tensile strength at break	IS : 12235 (Part 13)	>458.9 kg/cm ²	OK
Dichloromethane	IS : 12235 (Part 11)	Should be no attack	OK

MIRAJ COLUMN PIPES



COLUMN PIPE DIMENSION CHART

S. No.	Properties	1" (ND 25mm)			1¼" (ND 32mm)			1½" (ND 40mm)			2" (ND 50mm)		
		MEDIUM	STANDARD	HEAVY	MEDIUM	STANDARD	HEAVY	MEDIUM	STANDARD	HEAVY	MEDIUM	STANDARD	HEAVY
1	OD	32.7 ~ 33.2	32.7 ~ 33.2	32.7 ~ 33.2	41.7 ~ 42.2	41.7 ~ 42.2	41.7 ~ 42.2	47.7 ~ 48.2	47.7 ~ 48.2	47.7 ~ 48.2	59.7 ~ 60.2	59.7 ~ 60.2	59.7 ~ 60.2
2	Effective Length	3000 ± 10	3000 ± 10	3000 ± 10	3000 ± 10	3000 ± 10	3000 ± 10	3000 ± 10	3000 ± 10	3000 ± 10	3000 ± 10	3000 ± 10	3000 ± 10
3	T.S. at Break	> 45 MPa	> 45 MPa	> 45 MPa	> 45 MPa	> 45 MPa	> 45 MPa	> 45 MPa	> 45 MPa	> 45 MPa	> 45 MPa	> 45 MPa	> 45 MPa
4	Elongation at Break	Min. 50%	Min. 50%	Min. 50%	Min. 50%	Min. 50%	Min. 50%	Min. 50%	Min. 50%	Min. 50%	Min. 50%	Min. 50%	Min. 50%
5	Density in gm/cc	1.40 ~ 1.46	1.40 ~ 1.46	1.40 ~ 1.46	1.40 ~ 1.46	1.40 ~ 1.46	1.40 ~ 1.46	1.40 ~ 1.46	1.40 ~ 1.46	1.40 ~ 1.46	1.40 ~ 1.46	1.40 ~ 1.46	1.40 ~ 1.46
6	VST in °C	Min 80°C	Min 80°C	Min 80°C	Min 80°C	Min 80°C	Min 80°C	Min 80°C	Min 80°C	Min 80°C	Min 80°C	Min 80°C	Min 80°C
7	CH2CL2 Test	Shall be No Attack	Shall be No Attack	Shall be No Attack	Shall be No Attack	Shall be No Attack	Shall be No Attack	Shall be No Attack	Shall be No Attack	Shall be No Attack	Shall be No Attack	Shall be No Attack	Shall be No Attack
8	Reversion Test %	Max 5.0%	Max 5.0%	Max 5.0%	Max 5.0%	Max 5.0%	Max 5.0%	Max 5.0%	Max 5.0%	Max 5.0%	Max 5.0%	Max 5.0%	Max 5.0%
9	Opacity Test %	Max. 0.2%	Max. 0.2%	Max. 0.2%	Max. 0.2%	Max. 0.2%	Max. 0.2%	Max. 0.2%	Max. 0.2%	Max. 0.2%	Max. 0.2%	Max. 0.2%	Max. 0.2%
10	Safe Total Pump Delivery Head	160 mtr	300 mtr		150 mtr	250 mtr	350 mtr	150 mtr	260 mtr	33550 mtr	130 mtr	200 mtr	270 mtr
11	Ultimate Breaking Load	1400 Kgs	1800 Kgs		2100 Kgs	2600 Kgs	3100 Kgs	2500 Kgs	3000 Kgs	4000 Kgs	2800 Kgs	3800 Kgs	470 Kgs
12	Safe Pulling Load With Chain Pulley	770 Kgs	1300 Kgs		1200 Kgs	1500 Kgs	1550 Kgs	1300 Kgs	1700 Kgs	2000 Kgs	1500 Kgs	2100 Kgs	285 Kgs
13	Safe Allowable Hydrostatic Pressure	16 Kg/cm²	30 Kg/cm²	35 Kg/cm²	15 Kg/cm²	25 Kg/cm²	35 Kg/cm²	13 Kg/cm²	27 Kg/cm²	35 Kg/cm²	13 Kg/cm²	20 Kg/cm²	27 Kg/cm²

COLUMN PIPE DIMENSION CHART

S. No.	Properties	2½" (ND 65mm)			3" (ND 80mm)			4" (ND 100mm)		
		MEDIUM	STANDARD	HEAVY	MEDIUM	STANDARD	HEAVY	MEDIUM	STANDARD	HEAVY
1	OD	74.7 ~ 75.2	74.7 ~ 75.2	74.7 ~ 75.2	87.7 ~ 88.2	87.7 ~ 88.2	87.7 ~ 88.2	112.7 ~ 113.2	112.7 ~ 113.2	112.7 ~ 113.2
2	Effective Length	3000 ± 10	3000 ± 10	3000 ± 10	3000 ± 10	3000 ± 10	3000 ± 10	3000 ± 10	3000 ± 10	3000 ± 10
3	T.S. at Break	> 45 MPa	> 45 MPa	> 45 MPa	> 45 MPa	> 45 MPa	> 45 MPa	> 45 MPa	> 45 MPa	> 45 MPa
4	Elongation at Break	Min. 50%	Min. 50%	Min. 50%	Min. 50%	Min. 50%	Min. 50%	Min. 50%	Min. 50%	Min. 50%
5	Density in gm/cc	1.40 ~ 1.46	1.40 ~ 1.46	1.40 ~ 1.46	1.40 ~ 1.46	1.40 ~ 1.46	1.40 ~ 1.46	1.40 ~ 1.46	1.40 ~ 1.46	1.40 ~ 1.46
6	VST in °C	Min 80°C	Min 80°C	Min 80°C	Min 80°C	Min 80°C	Min 80°C	Min 80°C	Min 80°C	Min 80°C
7	CH2CL2 Test	Shall be No Attack	Shall be No Attack	Shall be No Attack	Shall be No Attack	Shall be No Attack	Shall be No Attack	Shall be No Attack	Shall be No Attack	Shall be No Attack
8	Reversion Test %	Max 5.0%	Max 5.0%	Max 5.0%	Max 5.0%	Max 5.0%	Max 5.0%	Max 5.0%	Max 5.0%	Max 5.0%
9	Opacity Test %	Max. 0.2%	Max. 0.2%	Max. 0.2%	Max. 0.2%	Max. 0.2%	Max. 0.2%	Max. 0.2%	Max. 0.2%	Max. 0.2%
10	Safe Total Pump Delivery Head	100 mtr	160 mtr	260 mtr	110 mtr	170 mtr	260 mtr	100 mtr	150 mtr	260 mtr
11	Ultimate Breaking Load	3500 Kgs	5000 Kgs	7000 Kgs	5000 Kgs	7000 Kgs	9500 Kgs	7500 Kgs	10300 Kgs	16000 Kgs
12	Safe Pulling Load With Chain Pulley	1900 Kgs	2700 Kgs	4200 Kgs	2750 Kgs	4000 Kgs	5700 Kgs	4100 Kgs	5700 Kgs	9500 Kgs
13	Safe Allowable Hydrostatic Pressure	10 Kg/cm²	16 Kg/cm²	26 Kg/cm²	11 Kg/cm²	17 Kg/cm²	26 Kg/cm²	10 Kg/cm²	15 Kg/cm²	26 Kg/cm²

MIRAJ SPRINKLER SYSTEM



कृषि विभाग एवं होर्टिकल्चर विभाग द्वारा सब्सिडी के लिए मान्यता प्राप्त

Worldwide HDPE Sprinkler System is found to be the best method to get maximum yield at a low cost. Miraj Sprinkler Pipes are manufactured from High Density poly ethylene. Our Products are manufactured as per Specification IS : 17425 of BIS

PRODUCT RANGE

- Available in Butt Fusion and Friction Welding, ranging 63 mm to 110 mm diameter with complete range of fittings.
- Available in latch clamping 'M' Type and Single 'C' Type Clamping.

APPLICATION

Used for irrigation and water distribution in farm lands, gardens, horticulture, floriculture, wormiculture.

BENEFITS

- Eco-friendly saves water upto 70%
- Helps in cleaning the surface of plants thereby helping them in easy photosynthesis
- Results in better yield
- In winter season, sprinkler system saves the surface of the plants from accumulation of frozen water
- In summers, sprinkler system spreads the water in the farmland uniformly and saves the plants from water clogging and scarcity

ACCESSORIES

- Coupled Bend
- Coupled Tee
- Pump Connecting Nipple
- Sprinkler Attachment Foot Batten
- End Cap
- Riser Pipe
- Sprinkler Nozzle
- Raingun with tripod stand



PRODUCT PROPERTIES

IS : 17425

Test	Test Method	Specification	Result
Tensile Strength at yield	IS : 17425 Clause - 7.1.4	193.7 kg/cm ² (min)	OK
Elongation at break	IS : 17425 Clause - 7.1.4	500% (min)	OK
Hydraulic Characteristic	IS : 17425 Clause - 7.1.2	@80°C, Test duration - 48 hrs. Induced stress - 38.7 kg/cm ²	OK

MIRAJ CONDUIT PIPES



For safety and security of the electrical wiring installation, conduit pipes of different strengths are used to encase of wiring and placed in grooves carved on the brick surface, before and after the walls and ceilings are plastered and cemented. Our product ensures safety from electrical and fire hazard and also stand the test of time against all kinds of weather conditions. Products are manufactured as per specification IS : 9537 Part - 3 of BIS.

PRODUCT RANGE

16 mm to 63 mm

PRODUCT TYPE

- Little Light
- Light
- Medium
- Heavy Mechanical

APPLICATION

Used at all places having electrical wiring, data cables used at any humanly occupied space



BENEFITS

- Non conductor of Electricity & low thermal conductivity
- Smooth interior
- Easy wire pulls
- Light weight
- Fire resistant
- Corrosion resistant
- Long life
- High tensile and impact strengths

PRODUCT TEST RESULT

IS : 9537 (Part 3)

Test	Test Method	Specification	Result
Bend Test (for Sizes- 16, 20, 25mm) @ -5°C @ Ambient Temp.	IS : 9537(Part 3) Clause 9.2	Sample does not show any crack	OK

MDPE PIPE

PRODUCT RANGE

20 mm to 315 mm

PRODUCT TYPE

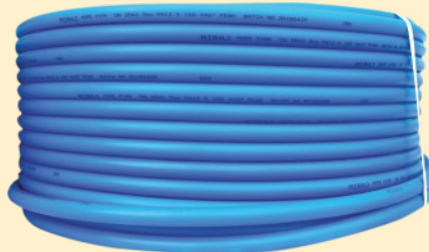
SDR-9,11,13.6 & 17 etc.

BENEFITS

- Light weight
- Flexible
- Durable

APPLICATION

Suitable for
Potable Water supply



PRODUCT PROPERTIES

ISO : 4427 - 2

Test	Test Method	Specification	Result
Elongation at break	ISO : 6259 - 1 ISO : 6259 - 3	≥350%	OK

POLYEHTYLENE GAS PIPE



Available in IS & ISO Standards

MIRAJ PIPES AND FITTINGS PVT LTD. is an acknowledged leader of plastic industry. It is credited with pioneering several path breaking products and has gained a valuable experience in providing innovative and cost effective piping solutions. The Company has been a trend setter and a torch bearer in the transition from conventional to advanced plastic piping products in the country. The Company's objective is to meet the growing needs of its clientele in water and waste management and in infrastructure sector through a specially designed high performance range of piping products.

The innovative product portfolio offered by MIRAJ is extensive in nature and applications. With its range of over 2500 products, the most comprehensive in the piping industry, MIRAJ caters to almost every conceivable need and application in piping. MIRAJ offers complete range of Polyethylene (PE) Gas pipes up to 315mm sizes for Natural Gas/Vaporized LPG conveyance & distribution, Industrial gases distribution. MIRAJ Gas pipes are Easy handling and jointing leading to reduced cost and equipped with many outstanding features that assures long term system performance and low maintenance cost.

Features and Benefits

- Excellent chemical resistance
- Light weight and flexible
- Easy handling and jointing leading to reduced cost
- Easy repair in the event of damage
- Non-corroding, unlike metallic pipes
- Very low maintenance cost
- Very low friction
- Outstanding ability to withstand Rapid Crack propagation
- Excellent SCGR (Slow Crack Growth Resistance) properties
- Very high abrasion resistances
- Long service life
- Excellent toughness/ductility
- Very low permeation to gases.

Product Range

- 16 to 315 mm

SDR Ratio

- 17.6 & 11 Grades

Grade

- PE 80 & PE 100

Colour

- Yellow & Orange



Dimensions chart for Gas pipes as per IS:14885:2001

Outer Dia. mm	Wall Thickness in mm							
	SDR 17.6		SDR 13.6		SDR 11		SDR 9	
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
20.0	2.3	2.7	2.3	2.7	3.0	3.4	3.0	3.4
25.0	2.3	2.7	2.3	2.7	3.0	3.4	3.0	3.4
32.0	2.3	2.7	2.3	2.7	3.0	3.4	3.6	4.1
40.0	2.3	2.7	3.0	3.4	3.7	4.2	4.5	5.1
50.0	2.9	3.3	3.7	4.2	4.6	5.2	5.6	6.3
63.0	3.6	4.1	4.7	5.3	5.8	6.5	7.1	8.0
75.0	4.3	4.9	5.5	6.2	6.8	7.6	8.4	9.4
90.0	5.2	5.9	6.6	7.4	8.2	9.2	10.1	11.3
110.0	6.3	7.1	8.1	9.1	10.0	11.2	12.3	13.7
125.0	7.1	8.0	9.2	10.3	11.4	12.7	14.0	15.5
140.0	8.0	9.0	10.3	11.5	12.7	14.1	15.7	17.2
160.0	9.1	10.2	11.8	13.1	14.6	16.2	17.9	19.8
180.0	10.3	11.5	13.3	14.8	16.4	18.2	20.1	22.3
200.0	11.4	12.7	14.7	16.3	18.2	20.2	22.4	24.8
225.0	12.8	14.2	16.6	18.4	20.5	22.7	25.1	27.8
250.0	14.2	15.8	18.4	20.4	22.7	25.1	27.9	30.8
280.0	16.0	17.7	20.6	22.8	25.4	28.1	31.3	34.6
315.0	17.9	19.8	23.2	25.7	28.6	31.6	35.2	38.9

POLYEHTYLENE GAS PIPE



Joining techniques

MIRAJ Polyethylene Gaspipes can be joined by different means; some of the joining techniques are as given below:

- Butt fusion
- Electro fusion
- Comparison of Electro Fusion Welding and Butt Fusion Welding

Length and packaging

Size range (mm)	Coil length (m)
20 - 50	100, 200, 300, 500
63 - 75	100, 200, 300
90 - 110	50, 100, Straight length of 6-12m
125 - 400	Straight length 6 - 12m

Butt-Welding (procedure)

Check the Wall Alignment and Gap

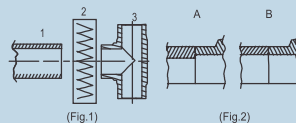
The alignment of the two parts should be checked at the same time. A possible misalignment on the outside must not exceed 10% of the thickness of the wall (Fig 5). If this limit is exceeded, a better clamping position is to be sought by rotating the pipe. In such a case, however, the surface must be re-planed. Important - The welding surfaces must be planed immediately prior to the jointing.

Once it has attained the fusion temperature, position the heating element in the butt-welding machine. Press the parts to be joined against the heating element with the force required for equalization until the entire circumference of each of the joining faces rests completely against it and a bead has formed. Reduce the Equalization pressure almost to zero. The heating time listed in the table below is measured from this moment.

Leave parts in the butt-welding jointing machine at welding pressure until the 2 1 3 (Fig.1) 1) Pipe 2) Heating tool 3) Fitting (Fig.3) (Fig.4) end of the cooling period. Once the heating period has elapsed, remove the parts from heating element, which should then be removed without touching F F the jointing surfaces and push the parts together immediately. The change over time must not exceed the value listed in the table. Pay particular attention during jointing that the parts be moved together swiftly until the surface are about to touch. Then they should be moved together so that they are in contact along the entire circumference. Next the pressure should be increased rapidly to the present jointing within the period of time specified in the table below. This (Fig.6) pressure must be necessary, especially shortly after the jointing pressure has been attained. (Fig 6) The jointing parts must stay in the welding machine under jointing pressure until the end of the cooling period specified in the table.

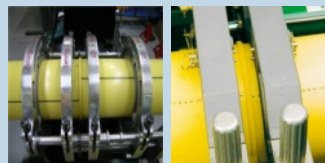
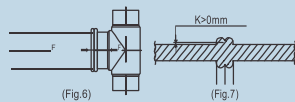
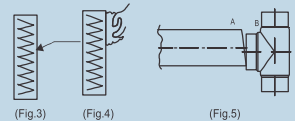
Welding bead checks

A bead should form around the entire circumference of the pipe. Jointing of two-lip point should be above the pipe circumference means always being positive. (Fig 7)



1) Pipe 2) Heating tool 3) Fitting

A) Incorrect B) Correct



Recommended values for the heated tool butt-welding of pipes and fittings

Wall thickness (mm)	Height of bead (mm)	Heating time (sec)	Changeover time max (sec)	Time to reach full jointing (sec)	Cooling time under jointing pressure (min)
up to 4.5	0.5	45	5	5	6
4.5 - 7	1.0	45-70	5-6	5-6	6-10
7 - 12	1.5	70-120	6-8	6-8	10-16
12-19	2.0	120-190	8-10	8-11	16-24
19-26	2.5	190-260	10-12	11-14	24-32
26-37	3.0	260-370	12-16	14-19	32-45
37-50	3.5	370-500	16-20	19-25	45-60
50-70	4.0	500-700	20-25	25-35	60-80

MIRAJ CPVC & UPVC SOLVENT CEMENT



Miraj CPVC solvent is one step fast setting solvent cement.
The bonding takes place due to chemical fusion of the mating surfaces.

Product Range

20ml in tubes.
50ml, 118ml, 237ml, 473ml & 946ml in cans
with brush.



BENEFITS

- Eliminates the use of primer or need of electric/heat source for jointing.
- Long lasting joints.

MIRAJ PVC SOLVENT CEMENT



PVC Based adhesive to join any type & brand of PVC pipe & fittings.

Product Range

20ml in tubes.
50ml, 100ml, 250ml, 500ml, 1 Ltr, 5 Ltr
in bottles and cans with brush.

BENEFITS

- Faster drying on application.
- Long lasting joint.
- Better leakage sealing.

PVC FABRICATED FITTINGS



Manufactured from ISI marked Rigid PVC Pipes of the highest quality, our products are manufactured as per Specification IS : 10124(P-2&8) of BIS.



BENEFITS

- Reliable Leak Proof Joints
- Seamless, strong and resilient
- Can absorb linear expansion and contraction
- Easy & convenient installation
- No need of solvent cement
- Corrosion, Chemical and Biological resistant which ensures pure water flow
- Can be supplied with flanged end connections as per need
- Being fabricated, the bends are made with a long radius
This helps in reducing friction loss and effecting a smooth flow

APPLICATION

- Used in projects for potable water supply in drinking & Irrigation pressure lines
- Chemical transportation

PRODUCT RANGE

20 mm to 400 mm

PRODUCT TYPE

Self fit
Elastomeric Sealing Ring socket

WORKING PRESSURE

Self fit - 2.5 kg/cm² to 12.5 kg/cm²
Elastomeric Sealing Ring socket - 4 kg/cm² to 12.5 kg/cm²

PRODUCT PROPERTIES

IS : 10124 (Part 2 & 8)

Test	Test Method	Specification	Result
Opacity	IS : 12235 (Part 3)	Max 0.2%	OK
Hydrostatic Characteristics	IS : 10124 (Part 1) Annex - A Clause 6.2	@27°C, Test Duration - 1hr. Pressure - 3.36 x PN kg/cm ²	OK

MIRAJ WATER TANK



Miraj Water Tanks are designed to offer unmatched durability and hygiene for water storage in residential, commercial, and industrial settings. Manufactured with advanced materials and technology, these tanks ensure optimal performance and long-lasting reliability, making them a trusted choice for diverse applications.

APPLICATIONS

Residential Use: Ideal for households to store clean and safe water.

Agricultural Use: Suitable for irrigation, rainwater harvesting, and farm needs.

Commercial Use: Perfect for offices, shops, and public facilities.

Industrial Use: Designed to handle water storage needs in factories, construction sites, and other heavy-duty environments.

BENEFITS

- **100% UV Stabilized:** Resistant to harmful UV rays, ensuring longevity even in extreme sunlight.
- **Threaded Lid with Air Vent:** Prevents contamination while allowing necessary air circulation.
- **Food Grade:** Safe for drinking water storage.
- **Anti-Algae:** Prevents algae formation, keeping water clean and hygienic.
- **Ultra Durable:** Built to withstand harsh conditions and last longer.
- **Eco-Friendly:** Made with environmentally friendly materials.
- **Multiple Layer Protection:** Ensures strength, insulation, and hygiene.

PRODUCT PROPERTIES

Capacity (Litres)	Diameter (mm)	Height (mm)	Diameter of Manhole (mm) O.D./I.D.
500	880	1030	420/395
750	990	1100	420/395
1000	1050	1250	420/395
2000	1340	1580	420/395
5000	1850	2100	420/395



PERFORMANCE WARRANTY

- 10 Years Warranty

PRODUCT RANGE

- From 500 Litres to 5000 Litres

NO. OF LAYERS

- 3 Layer
- 4 Layer
- Upto 6 Layer

CERTIFICATIONS

- ISO CERTIFIED

MIRAJ PLB DUCT



Miraj PLB (Permanent Lubricated) Ducts are the ultimate choice for robust and efficient cable management solutions, tailored for modern telecommunication and fiber optic networks. Combining advanced technology with superior craftsmanship, these ducts set the benchmark for performance and reliability.

PRODUCT RANGE

32/26 mm, 40/33 mm, 40/34.2 mm, 50/42 mm, 75/67mm and 110/98.7 with and without the rope. Colors available include yellow, red, violet, green, blue, grey, orange, and brown.

BENEFITS

- **Advanced Silicone Lubrication:** Specially engineered inner lubrication reduces friction, ensuring seamless cable installation and operational efficiency. Silicone layer helping in faster blowing speed.
- **Efficient Installation:** The flexibility and smooth inner surface of PLB Duct Pipes simplify the cable laying process, enabling faster and more efficient installation.
- **Enhanced Network Reliability:** Ensure the protection and longevity, reducing the risk of network failures and downtime.
- **Unmatched Durability:** Manufactured from premium HDPE material, offering exceptional resistance to wear, corrosion, UV rays, and extreme environments.
- **Copper Tracer Wire:** To assist with locating buried PLB Duct.
- **Versatility:** Suitable for urban, rural, and industrial installations, meeting the demands of diverse terrains and applications.
- **Cost-Efficient:** Reduces maintenance efforts and minimizes risks of cable damage for a long-term, cost-effective solution.
- **Sustainability:** Designed for long-term use with environmentally friendly materials that meet global quality standards.



PRODUCT PROPERTIES

SIZE (mm)	O.D. (Average)	I.D. (Average)	AVERAGE THICKNESS
32/26	32	26	3.00 mm
40/33	40	33	3.5 mm
40/34.2	40	34.2	2.8 mm
50/42	50	42	4 mm
75/67	75	67	4 mm
110/98.7	110	98.7	5.7 mm

PERFORMANCE RATINGS

Co-efficient of friction: Max. 0.06
Temperature resistance range: -5°C to + 50°C
Anticipated Life Time: 50
Bending Radius: Minimum ten times of O.D.

APPLICATIONS

- Telecommunication
- Underground Optical Fibre Cables
- Railways Information Network
- Cable Service Providers
- Computer Networking
- Defense Network

MIRAJ DWC PIPE



Miraj Double Wall Corrugated (DWC) Piping Systems are a sustainable and advanced alternative to traditional piping systems. Designed for efficiency, these pipes consume significantly less energy during production, transportation, and installation compared to metal or concrete options. Miraj DWC Piping Systems offer exceptional durability, superior contamination protection, excellent joint performance, and dependable leak-free operation.

PRODUCT RANGE

DWC Pipes for Electrical Applications: 50 O.D. to 200 O.D.
DWC Pipes for Sewerage, Sanitary, Drainage, Harvesting Applications: Size – 100 to 300.

BENEFITS

- **Flexible:** Adapts to ground movements and uneven terrain.
- **Long Life:** Durable with minimal maintenance, lasting decades.
- **Easy to Handle:** Lightweight, simplifying transport and installation.
- **Long Pipes:** Reduced joints for quicker installation and fewer leaks.
- **Anti-Rodent Material:** Resistant to rodent attacks for underground use.
- **Corrosion & Abrasion Resistant:** Withstands chemicals and wear.
- **Environmentally Friendly:** Recyclable and sustainable.
- **Leak-Proof:** Reliable jointing ensures no water loss or contamination.



APPLICATIONS

- Sewerage
- Storm Water & Surface Water Drainage
- Underground Drainage
- Underground Cable Protection
- Highway Road Drainage



PRODUCT PROPERTIES – Electrical Applications

SIZE (mm)	O.D. (Average)	I.D. (Average)	Length
50	50	38	Upto 500 Mtr in Coil
63	63	51	Upto 250 Mtr in Coil
90	90	76	6Mtr/9Mtr/12Mtr
110	110	95.0	6Mtr/9Mtr/12Mtr
120	120	103.5	6Mtr/9Mtr/12Mtr
160	160	136	6Mtr/9Mtr/12Mtr
180	180	152	6Mtr/9Mtr/12Mtr
200	200	170	6Mtr/9Mtr/12Mtr

PRODUCT PROPERTIES – Sewerage, Sanitary Applications

SIZE (mm)	I.D. (Average)	Stiffness Class	Length (Meter)
100	95	SN 4 & SN 8	6
135	130	SN 4 & SN 8	6
150	145	SN 4 & SN 8	6
170	165	SN 4 & SN 8	6
200	195	SN 4 & SN 8	6
225	220	SN 4 & SN 8	6
250	245	SN 4 & SN 8	6
300	294	SN 4 & SN 8	6
400	392	SN 4 & SN 8	6
500	490	SN 4 & SN 8	6



- OUR APPROVALS -

Sr.No.	Government Department	Location
1.	Agriculture Department	Rajasthan
2.	Jal Jeevan Mission	Rajasthan
3.	Indira Gandhi Nahar Pariyojana	Rajasthan
4.	Rajasthan Urban Infrastructure Development Project	Rajasthan
5.	Water Resources Department	Rajasthan
6.	Central Public Works Department	Rajasthan
7.	Housing Board	Rajasthan & Madhya Pradesh
8.	Agriculture Department	Madhya Pradesh
9.	Municipal Corporation	Madhya Pradesh
10.	Water Resources Department	Madhya Pradesh
11.	Housing Board	Madhya Pradesh
12.	Madhya Pradesh Urban Development Company Limited	Madhya Pradesh
13.	Jal Jeevan Mission	Madhya Pradesh
14.	Sardar Sarovar Narmada Nigam Ltd.	Gujarat
15.	Gujarat Water Supply & Sewerage Board	Gujarat
16.	Public Health Engineering Department	West Bengal
17.	UP Jal Nigam	Uttar Pradesh
18.	State Water And Sanitation Mission	Uttar Pradesh
19.	Bangalore Water Supply and Sewerage Board	Bengaluru
20.	Rural Water Supply And Sanitation	Orissa
21.	Maharashtra Jeevan Pradhikaran	Chandrapur MH
22.	Maharashtra Housing and Area Development Authority (MHADA)	Maharashtra
23.	Himachal Pradesh Crop Diversification Promotion	Himachal Pradesh



- OUR VALUED CUSTOMER -



HINDUSTAN ZINC

VOLTAS



[Madan Paliwal (Miraj)]
International Cricket Stadium



World Vision



HRH Group of Hotels





- Our Infrastructure -



- PRODUCT RANGE -



CPVC PIPES & FITTINGS



uPVC PIPES & FITTINGS



SWR PIPES & FITTINGS



UNDERGROUND DRAINAGE
PIPES



CONDUIT PIPES



MDPE PIPES & COIL



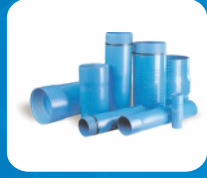
RPVC PIPES & FITTINGS



HDPE PIPES & COILS



SPRINKLER SYSTEMS



BLUE CASING PIPES



COLUMN PIPES



SOLVENT



ELASTOMERIC SEALING
RING FIT PIPES



uPVC FABRICATED
FITTINGS



HDPE FABRICATED
FITTINGS



GARDEN PIPE



MIRAJ WATER TANK



MIRAJ PLB DUCT



MIRAJ DWC PIPE

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