SFMC®

PIPES & FITTINGS

1st time in India with 3 Layer technology

Solutions that flow with *Precision*

Market Leaders in PPR Pipes & Fittings for last 25 Years

IS:15801 DAB MARK GLOBAL ISO MAKE IN INDIA

AN ISO 9001:2015 CERTIFIED COMPANY

Savoir Faire Manufacturing Company Pvt. Ltd.

COMPANY PROFILE

The quest for excellence is the underlying behind the success of the Savoir Faire Manufacturing Company Pvt. Ltd. SFMC has become a name to reckon with in the area of manufacturing high quality PP-R Pipes and Fittings for the first time in India that complement international standards. SFMC has the rare distinction as the pioneer manufacturers of PP-R plumbing range in India.

SFMC PP-R products being physically superior, hygienically safe and non-cardinogenic have been approved by the Hygience Institute of World Germany, CBRI Roorkee (India) and many other recognized international institutes for its superior product quality.

The company makes a judicious mix of engineering quality management and cutting edge technologies to meet the demands of newer designs and utility through enhanced product performance.

The raw material of SFMC pipes and fittings is Polypropylene Random Copolymer (PP-R). This material, due to high quality is the most reliable system to be employed in plumbing and water supply plants. The complete range of products have been further improved with exclusive SFMC accessories, which have been designed to meet all possible needs.

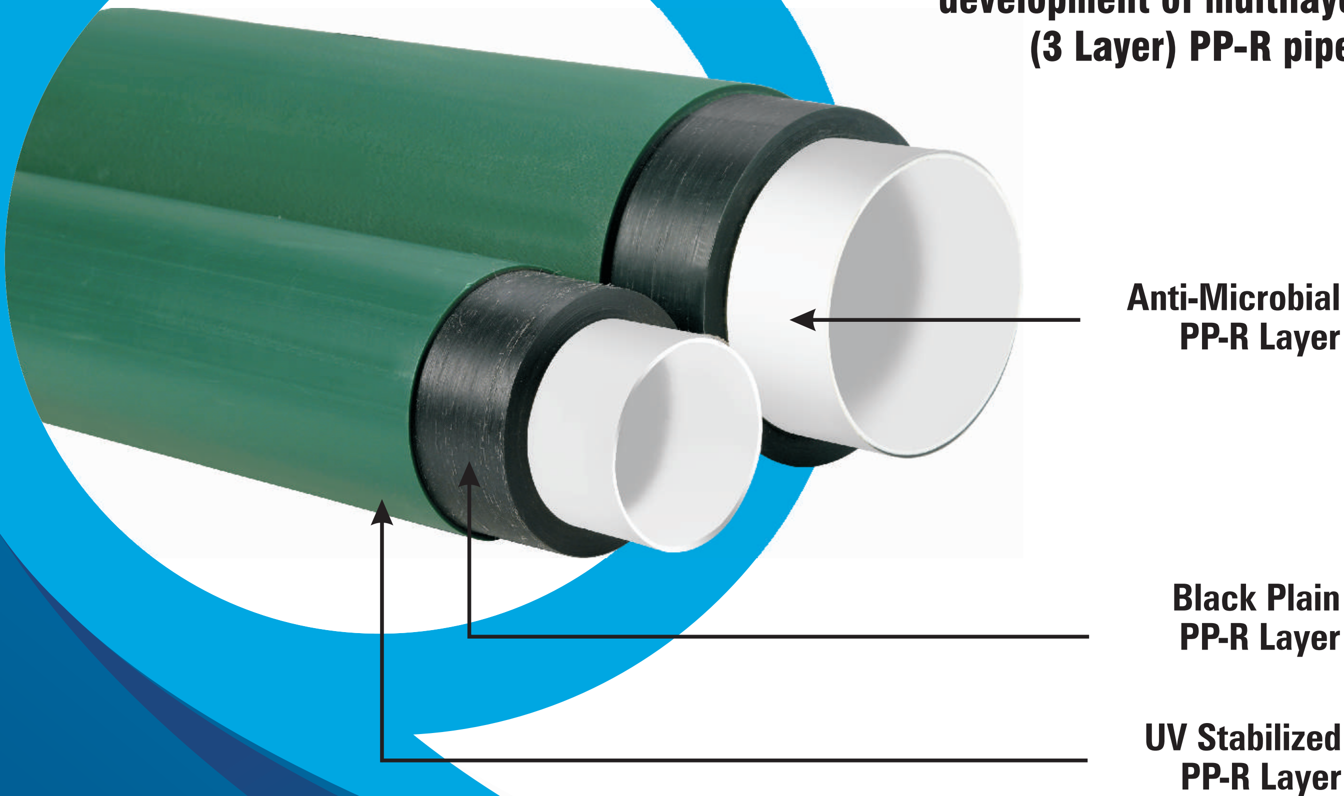
Fields of Application

- Potable Water Pipe Network for Cold and Hot Water Installation.
- Pipe network for RO application.
- Chilled water distribution or Residential, Commercial, Industrial use & cooling tower.
- Pipe network for heating systems.
- Potable water pipe networks for cold and hot installations.
- Transport of Liquid Food as PP-R pipes and fittings are food grade.
- Heating Pipes for Residential Buildings.
- Pipe networks for industry i.e., Transportation of Aggressive Fluids (Acid etc.)
- Pipe Network for Compressed Air Plants.
- Solar Heaters.
- Vacuum Pipelines.
- Desalination Plants.
- Data Centre.
- Breweries.
- Georthermal Interior Piping.

Properties

- Extremely long life, 50 years of service life.
- Taste and odour neutral.
- Good Chemical Resistence. Physically neutral.
- No need for insulation for concealed piping networks.
- Resistence to High Temperature (95°C).
- Convenient & Reliable Installation.
- No Reaction with Salts & Acids.
- No Calcification.
- Leak Proof & Frost Proof.
- Non-Decaying & Non Deforming.
- Low Laying Time & Cost.
- Smooth Inner Surface.
- Sound Insulation.
- Unique and un-rivaled jointing technique with security for Lifetime.
- Recyclable-Prevents Environmental Hazards.

SFMC adds to its range of products through its indigenous development of multilayer (3 Layer) PP-R pipes



Savoir Faire Manufacturing Company Pvt. Ltd.

3 Layer PP-R Pipes

SFMC adds to its range of products through its indigenous Research & Development.

UV Stabilized Layer :
Light and Oxygen Induce Degradation reactants in plastic that may not only harm them visually but also exert a detrimental influence on mechanical and physical properties. Thus the life of plastic product reduces drastically. Moreover, the environmental factors like humidity, temperature and pressure accelerates process. Thus the stabilization of polymers from UV (Ultra Violet Rays from Sun) becomes very important.

Advantages :
1. UV Stabilizers contains various chemical properties, which give the protection against UV light by various chemical mechanisms.
2. Colors like Black, Green already have good resistance to UV rays, but addition of UV stabilizers further enhance the light and thermal stability of product.
3. UV stabilizer impart long term durability and enhance life of the product.
4. It helps to maintain the properties of polymers.

Anti Microbial PP-R Layer :
Anti-Microbial layer prevents the growth of bacteria/microbes/algae etc. and preserves the pipes from them. This Anti Microbial additive is very low migrating which makes it last for the entire life of product. This Anti Microbial Layer is stable upto 270°C temperature.

Benefits :
1. Anti Microbial Layer is highly food grade.
2. Water storability increases tremendously i.e. even for the water lying stagnant in the pipe. It remains hygienic without any bacterial formation for a long period of time.
3. Bad odour can b avoided.
4. Deteriorating / Harmful

IS :15801

CM/L 3064445

Savoir Faire Manufacturing Company Pvt. Ltd.

Technical Specifications

Raw Material Polypropylene Random Copolymer

SFMC pipes and fitting are produced from Polypropylene Random copolymer Type 3 as raw material having low melt flow rate, molecular weight and good flexibility.

This raw material is recommended for the production of pressure pipe including potable water transfer lines, hot and cold water transfer lines, floor heating and also for chemical industry application. Good long term pressure resistance and easy processing and installation technique give cold and hot water systems made of PP-R pipes an advantages as an alternative to the traditional systems.

Wall Thickness of Different Pipe Sizes As per IS : 15801 & DIN 8077:1999-07

D	SDR 17.6 / PN 6	SDR 11 / PN 10	SDR 7.4 / PN 16	SDR 6 / PN 20
Outer diameter of pipe (mm)	S Thickness in mm	S Thickness in mm	S Thickness in mm	S Thickness in mm
15	----	----	2.2	2.7
20	----	1.9	2.8	3.4
25	----	2.3	3.5	4.2
32	----	2.9	4.4	5.4
40	----	3.7	5.5	6.7
50	----	4.6	6.9	8.3
63	----	5.8	8.6	10.5
75	----	6.8	10.3	12.5
90	----	8.2	12.3	15
110	----	10	15.8	18.3
160	9.1	14.6	21.9	26.6
180	10.2	16.4	24.6	29.0
200	11.4	18.2	27.4	33.2
225	12.8	20.5	30.8	37.4
250	14.2	22.7	34.2	41.7
280	15.9	25.4	38.3	46.7
315	17.9	28.6	43.4	52.5
355	20.1	32.2	49.0	59.2
400	22.7	36.3	----	----

THERMAL/PHYSICAL PROPERTIES

Properties	Test Method	Unit	Value
Thermal Conductivity at 23°C	DIN 52612	W/m°k	0.23
Specific heat at 23°C	C	Kj/kg°k	1.73
Coefficient of Linear thermal expansion	DIN 53 752	K^{-1} °C	1.5×10^{-4}
Under weight deformation temperature 1.8 N/mm²	ASTM D 648 ISO 75	°C	44
0.45 N/mm²	DIN 53 461	°C	42
Breaking Temperature	ASTM D 746	°C	-13
VICAT softening point	ASTM D 1525 ISO 306 DIN 53 460	°C	130
Density	ASTM D792	g/cm³	0.91
Melt Flow Index:			
Mfi 230°C/2.16 Kg	ISO R 1133	g/10 minutes	0.2

As per DIN 8077:1999-07 allowable working pressure for PP-R pipes With SF = 1.5

Temperature in °C	Years of Service	SDR 11/ PN 10	SDR 7.4/ PN 16	SDR 6/ PN 20
10	1	17.6	27.8	35.0
	5	16.6	26.4	33.2
	10	16.1	25.5	32.1
	25	15.6	24.7	31.1
	50	15.2	24.0	30.3
	100	14.8	23.4	29.5
20	1	15.0	23.8	30.0
	5	14.1	22.3	28.1
	10	13.7	21.7	27.3
	25	13.3	21.1	26.5
	50	12.9	20.4	25.7
	100	12.5	19.8	24.9
30	1	12.8	20.2	25.5
	5	12.0	19.0	23.9
	10	11.6	18.3	23.1
	25	11.2	17.7	22.3
	50	10.9	17.3	21.8
	100	10.6	16.9	21.2
40	1	10.8	17.1	21.5
	5	10.1	16.0	20.2
	10	9.8	15.6	19.6
	25	9.4	15.0	18.8
	50	9.2	14.5	18.3
	100	8.9	14.1	17.8
50	1	9.2	14.5	18.3
	5	8.5	13.5	17.0
	10	8.2	13.1	16.5
	25	8.0	12.6	15.9
	50	7.7	12.2	15.4
	100	7.4	11.8	14.9
60	1	7.7	12.2	15.4
	5	7.2	11.4	14.3
	10	6.9	11.0	13.8
	25	6.7	10.5	13.3
	50	6.4	10.1	12.7
70	1	6.5	10.3	13.0
	5	6.0	9.5	11.9
	10	5.9	9.3	11.7
	25	5.1	8.0	10.1
	50	4.3	6.7	8.5
80	1	5.5	8.6	10.9
	5	4.8	7.6	9.6
	10	4.0	6.3	8.0
	25	3.2	5.1	6.4
95	1	3.9	6.1	7.7
	5	2.5	4.0	5.0
	10	2.1	3.4	4.2

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Pipe (PN 10) (3-Layer)

PRODUCT ID	SIZE
10253	25 MM
10323	32 MM
10403	40 MM
10503	50 MM
10633	63 MM
10753	75 MM
10903	90 MM
101103	110 MM
101603	160 MM
101803	180 MM
102003	200 MM
102253	225 MM
102503	250 MM
102803	280 MM
103153	315 MM
103553	355 MM
104003	400 MM

Pipe (PN 10) (3 Layer - FR)

PRODUCT ID	SIZE
10251	25 MM
10321	32 MM
10401	40 MM
10501	50 MM
10631	63 MM
10751	75 MM
10901	90 MM
101101	110 MM
101601	160 MM
101801	180 MM
102001	200 MM
102251	225 MM
102501	250 MM
102801	280 MM
103151	315 MM
103551	355 MM
104001	400 MM

Pipe (PN 16) (3-Layer)

PRODUCT ID	SIZE
16163	16 MM
16203	20 MM
16253	25 MM
16323	32 MM
16403	40 MM
16503	50 MM
16633	63 MM
16753	75 MM
16903	90 MM
161103	110 MM
161603	160 MM
161803	180 MM
162003	200 MM
162253	225 MM
162503	250 MM
162803	280 MM
163153	315 MM
163553	355 MM

Pipe (PN 16) (3 Layer - FR)

PRODUCT ID	SIZE
16161	16 MM
16201	20 MM
16251	25 MM
16321	32 MM
16401	40 MM
16501	50 MM
16631	63 MM
16751	75 MM
16901	90 MM
161101	110 MM
161601	160 MM
161801	180 MM
162001	200 MM
162251	225 MM
162501	250 MM
162801	280 MM
163151	315 MM
163551	355 MM

Pipe (PN 20) (3-Layer)

PRODUCT ID	SIZE
20163	16 MM
20203	20 MM
20253	25 MM
20323	32 MM
20403	40 MM
20503	50 MM
20633	63 MM
20753	75 MM
20903	90 MM
201163	110 MM
201603	160 MM
202003	200 MM

Pipe (PN 20) (3 Layer - FR)

PRODUCT ID	SIZE
20161	16 MM
20201	20 MM
20251	25 MM
20321	32 MM
20401	40 MM
20501	50 MM
20631	63 MM
20751	75 MM
20901	90 MM
201101	110 MM
2011601	160 MM
2012001	200 MM

SFMC® PIPES & FITTINGS

Savoir Faire Manufacturing Company Pvt. Ltd.

IS :15801

CM/L 3064445

Standard for Pipe Fittings

IS 15801 : 2008/BIS	BUREAU OF INDIAN STANDARDS - ISI
DIN 1998	Drinking water line installation
DIN 2999	Whiteworth Pipe threads for tubes and fittings
DIN 4109	Sound insulation in building construction
DIN 8077	Polypropylene (PP) Pipes dimensions
DIN 8078	Polypropylene (PP) pipes general quality requirements and testing
DIN 16962	Polypropylene (PP) pipes fittings
DIN 16928	Pipe connections and components - pipes of thermoplastic materials, pipe joints, element for pipe, laying, general directions
DIN 16928 (6-9)	Pipe joints and elements for polypropylene (PP) pressure pipelines, types 1 and 2 injection molded elbows for socket - welding dimension
DIN 16925.5	Pipe joints and elements for polypropylene (PP) for pipes under part 5, general quality
DIN 2207.11	Welding regulations for plastic pipes
DIN 2203	Test of thermoplastic pipe fitting for weld
DIN 2208.1	Machines and devices for welding thermoplastic pipes
EN ISO 15874 (1-7)	Plastic piping systems for hot and cold water installation polypropylene (PP)

Table to determine support intervals for SFMC PP-R pipes in conjunction with temperature and external diameter.

Pipe Diameter D (MM)

Support Intervals In (CM)

Difference in Temperature (K)	16	20	25	32	40	50	63	75	90	110	160	180	200	250	280	315	355	400
0	70	85	105	125	140	165	190	205	220	250	300	350	410	460	520	560	550	620
20	50	60	75	90	100	120	140	150	160	180	200	220	240	260	280	300	480	550
30	50	60	75	90	100	120	140	150	160	180	200	220	240	260	280	300	455	525
40	50	60	70	80	90	110	130	140	150	170	190	210	230	250	270	290	415	485
50	50	60	70	80	90	110	130	140	150	170	190	210	230	250	270	290	415	485
60	50	55	65	75	85	100	115	125	140	160	180	195	220	225	275	310	405	475
70	50	50	60	70	80	95	105	115	125	140	160	180	215	230	255	275	395	465

Chemical Resistance Chart for PPR Pipe

The chart below shows the chemical resistance of PPR under static conditions and not under pressure.

A = Negligible Effect

The material should be suitable for all applications where these environmental conditions exist.

B = Limited Absorption or Attack

The material should be suitable for most applications but the user is advised to carry out his/her own tests to determine the suitability of PPR in a particular environment.

C = Extensive Absorption And/Or Rapid Permeation

The material should be suitable for applications where only intermittent service is involved, or where the swelling produced has no detrimental effect on the part. The user should carry out his/her own tests to determine the suitability of PPR in a particular environment.

D = Extensive Attack

The specimen dissolves or disintegrates. PPR is not recommended

Environment	Conc. %	Temp.		
		20°C	60°C	100°C
Acetic Acid (Glacial)	97	A	B (80°C)	-
Acetic Acid	50	A	A (80°C)	-
Acetic Acid	40	A	-	-
Acetic Acid	10	A	A	-
Acetone	100	A	A	-
Acetophenone	100	B	B	-
Acriflavine (2% Solution in H_2O)	2	A	A	(80°C)
Acrylic Emulsions	-	A	A	-
Aluminum Chloride	-	A	A	-
Aluminum Fluoride	-	A	A	-
Aluminum Sulfate	-	A	A	-
Alums (All Types)	-	A	A	-
Ammonia (Aqueous)	30	A	-	-
Ammonia Gas (Dry)	-	A	A	-
Ammonium Carbonate	Satd.	A	A	-
Ammonium Chloride	Satd.	A	A	-
Ammonium Fluoride	20	A	A	-

Environment	Conc. %	Temp.		
		20°C	60°C	100°C
Ammonium Hydroxide	10	A	A	-
Ammonium Metaphosphate	Satd.	A	A	- -
Ammonium Nitrate	Satd.	A	A	-
Ammonium Persulfate	Satd.	A	A	-
Ammonium Sulfate	Satd.	A	A	-
Ammonium Sulfide	Satd.	A	A	(80°C)
Ammonium Thiocyanate	Satd.	A	A	
Amyl Acetate	100	B	C	-
Amyl Alcohol	100	A	B	-
Amyl Chloride	100	C	C	-
Barium Carbonate	Satd.	A	A	-
Barium Chloride	Satd.	A	A	-
Barium Hydroxide	-	A	A	-
Barium Sulfate	Satd.	A	A	-
Barium Sulfide	Satd.	A	A	-
Beer	-	A	A	-
Benzene	100	B	C	C

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Chemical Resistance Chart for PPR Pipe

Environment	Conc. %	Temp.		
		20°C	60°C	100°C
Benzoic Acid	A	A	-	-
Benzyl Alcohol	-	A	A (80°C)	-
Bismuth Carbonate	Satd.	A	A	-
Borax	-	A	A	-
Boric Acid	-	A	A	-
Brine	Satd.	A	A	-
Bromine Liquid	100	D	-	-
Bromine Water	(a)	C	-	-
Butyl Acetate	100	C	C	-
Butyl Alcohol	100	A	A	-
Calcium Carbonate	Satd.	A	A	-
Calcium Chlorate	Satd.	A	A	-
Calcium Chloride	50	A	A	-
Calcium Hydroxide	-	A	A	-
Calcium Hypochlorite Bleach	20 (a)	A	B	-
Calcium Nitrate	-	A	A	-
Calcium Phosphate	50	A	-	-
Calcium Sulfate	-	A	A	-
Calcium Sulfite	-	A	A	-
Carbon Dioxide (Dry)	-	A	A	-
Carbon Dioxide (Wet)	-	A	A	-
Carbon Disulfide	100	B	C	-
Carbon Monoxide	-	A	A	-
Cetyl Alcohol	100	A	-	-
Chlorine (Gas)	100	D	D	-
Chlorobenzene	100	C	C	-
Chloroform	100	C	D	D
Chlorosulfonic Acid	100	D	D	D
Chrome Alum	-	A	A	-
Chromic Acid	80 (a)	A	-	-

Environment	Conc. %	Temp.		
		20°C	60°C	100°C
Chromic Acid	50 (a)	A	-	-
Chromic Acid	10 (a)	A	A	-
Chromic/Sulfuric Acid	-	D	A	-
Cider	-	A	D	-
Citric Acid	10	A	A	-
Copper Chloride	Satd.	A	A	-
Copper Cyanide	Satd.	A	A	-
Copper Fluoride	Satd.	A	A	-
Copper Nitrate	Satd.	A	A	-
Copper Sulfate	Satd.	A	A	-
Cottonseed Oil	-	A	A	-
Cuprous Chloride	Satd.	A	A	-
Cyclohexanol	100	A	B	-
Cyclohexanone	100	B	C	-
Decalin	100	C	C	C
Detergents	2	A	A	A
Developers (Photographic)	-	A	A	-
Dibutyl Phthalate	100	A	B	D
Dichloroethylene	100	A	-	-
Diethanolamine	100	A	A	-
Disoocyl Phthalate	100	A	A	-
Emulsifiers	-	A	A	-
Ethanolamine	100	A	A	-
Ethyl Acetate	100	B	B	-
Ethyl Alcohol	96	A	A (80°C)	-
Ethyl Chloride	100	C	C	-
Ethylene Dichloride	100	B	-	-
Ethylene Glycol	-	A	A	-
Ethylene Oxide	100	B	-	-
Glucose	20	A	A	-

Chemical Resistance Chart for PPR Pipe

Environment	Conc. %	Temp.		
		20°C	60°C	100°C
Glycerin	100	A	A	A
Glycol	-	A	A	-
Hexane	100	A	B	-
Hydrobromic Acid	50 (a)	A	A	-
Hydrobromic Acid	30 (a)	A	B	D
Hydrobromic Acid	20	A	A (80°C)	-
Hydrobromic Acid	10	A	A (80°C)	B
Hydrobromic Acid	2	A	A	A
50-50 HC-KNO3	(a)	B	D (80°C)	-
Hydrofluoric Acid	40	A	-	-
Hydrofluoric Acid	60 (a)	A	A (40°C)	-
Hydrogen Chloride Gas (Dry)	100	A	A	-
Hydrogen Peroxide	30	A	-	D
Hydrogen Peroxide	10	A	B	-
Hydrogen Peroxide	3	A	-	-
Hydrogen Sulfide	-	A	A	-
Hydroquinone	-	A	A	-
Inks	-	A	A	-
Iodine Tincture	-	A	-	-
Isooctane	100	C	C	-
Isopropyle Alcohol	100	A	A	-
Ketones	-	A	-	-
Lactic Acid	20	A	A	-
Lanolin	100	A	A	-
Lead Acetate	Satd.	A	A	-
Linseed Oil	100	A	A	-
Lubricating Oil	100	A	B	-
Magenta Dy (Aqueous Solution)	2	A	A Somestaining	-
Magnesium Carbonate	Stand.	A	A	-

Environment	Conc. %	Temp.		
		20°C	60°C	100°C
Magnesium Chloride	Satd.	A	A	-
Magnesium Hydroxide	Satd.	A	A	-
Magnesium Nitrate	Satd.	A	B	-
Magnesium Sulfate	Satd.	A	A	-
Nickel Nitrate	Satd.	A	A	-
Nickel Sulfate	Satd.	A	A	-
Nitric Acid	Fuming	D	D	D
Nitric Acid	70 (a)	C	D	-
Nitric Acid	60	A	D (80°C)	-
Nitric Acid	10	A	A	A
50-50 HNO3-HCl	(a)	B	D (80°C)	-
50-50 HNO3-H2SO4	(a)	C	D (80°C)	-
Nitrobenzene	100	A	A	-
Oleic Acid	-	A	B	-
Oleum	-	-	-	D
Olive Oil	100	A	A	-
Oxalic Acid (Aqueous)	50	A	B	-
Paraffin	100	A	B	-
Paraffin Wax	100	A	A	-
Petrol	100	B	C	-
Petroleum Ether (Boiling Point 100°-140°C)	100	C	C	-
Phenol	100	A	A	-
Phosphoric Acid	95	A	A	-
Plating Solutions, Brass	-	A	A	-
Plating Solutions, Cadmium	-	A	A	-
Plating Solutions, Chromium	-	A	A	-
Plating Solutions, Copper	-	A	A	-
Plating Solutions, Gold	-	A	A	-

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Chemical Resistance Chart for PPR Pipe

Environment	Conc. %	Temp.		
		20°C	60°C	100°C
Plating Solutions, Indium	-	A	A	-
Plating Solutions, Lead	-	A	A	-
Plating Solutions, Nickel	-	A	A	-
Plating Solutions, Rhodium	-	A	A	-
Plating Solutions, Silver	-	A	A	-
Plating Solutions, Tin	-	A	A	-
Plating Solutions, Zinc	-	A	A	-
Potassium Bicarbonate	Satd.	A	A	-
Silicone Oil	100	A	A	-
Soap Solution (Concentrated)	-	A	A	-
Sodium Acetate	-	A	A	-
Sodium Bicarbonate	Satd.	A	A	-
Sodium Bisulfate	Satd.	A	A	-
Sodium Bisulfate	Satd.	A	A	-
Sodium Borate	-	A	A	-
Sodium Bromide Oil Solution	-	A	A	-
Sodium Carbonate	Satd.	A	A	-
Sodium Chlorate	Satd.	A	A	-
Sodium Chloride	Satd.	A	A	A
Sodium Chlorite	2	A	A (80°C)	-
Sodium Chlorite	5	A (80°C)	A	-
Sodium Chlorite	10	A (80°C)	A	-
Sodium Chlorite	20	A (80°C)	A	-
Sodium Cyanide	Satd.	A	A	-
Sodium Dichromate	Satd.	A	A	-
Sodium Ferricyanide	Satd.	A	A	-
Sodium Ferricyanide	Satd.	A	A	-
Sodium Fluoride	Satd.	A	A	-
Sodium Hydroxide	50	A	A	-

Environment	Conc. %	Temp.		
		20°C	60°C	100°C
Sodium Hydroxide	10	A	A	A
Sodium Hypochlorite	20	A	B	B
Sodium Nitrate	-	A	A	-
Sodium Nitrite	-	A	A	-
Sodium Silicate	-	A	A	-
Sodium Sulfate	Satd.	A	A	-
Sodium Sulfide	25	A	A	-
Sodium Sulfite	Satd.	A	A	-
Stannic Chloride	Satd.	A	A	-
Stannous Chloride	Satd.	A	A	-
Starch	-	A	A	-
Sugars and Syrups	-	A	A	-
Sulfamic Acid	-	A	A (800C)	-
Sulfates of Calcium and Magnesium	Satd.	A	A	-
Sulfates of Potassium and Sodium	-	A	A	-
Sulfur	-	A	A	-
Urea	-	A	A	-
Urine	-	A	A	-
Water (Distilled, Soft, Hard & Vapor)	-	A	A	A
Wet Chlorine Gas	-	-	D (70°C)	-
Whiskey	-	A	A	A
White Paraffin	100	A	B (80°C)	-
White Spirit	100	B	C	-
Wines	-	A	A	-
Xylene	100	C	C	C
Yeast	-	A	A	-
Zinc Chloride	Satd.	A	A	-
Zinc Oxide	-	A	A	-
Zinc Sulfate	Satd.	A	A	-

A Unique Joining System in PPR Pipes & Fitting

ELABORATING FUSION JOINTING

1. Choose the proper heating piece and mount it on the welding machine.
2. Switch the welding device on. Control lamp and switch lamp with lit.
3. When ready, control lamp gets off, then it means that welding temperature (260°C +/- 10°C) has been reached.
4. Place the pipe end and the fitting to be welded on the welding machine properly.
5. Heat them for the specified time taking precautions to not to allow overheating of the two pieces.
6. If welding devices, pipes and fittings are dirty, clean them with a cloth and alcohol - water solution.
7. When heated up after a few seconds, remove pipe and fitting from welding machine and connect the two heated end applying a little pressure without twisting. Let it cool down for a few seconds.
8. The processing times, like heating, fusion and cooling, are shown in the table below. Please keep in mind, that different pipe diameters need different processing time. The welded joints have to be kept in a tight condition during the cooling down.

Cut required length with cutter

Heat Pipe and fitting at same time

Take out the two & Fuse them together

BUTT FUSION TECHNOLOGY

PPR Pipe 200 mm and above, there is no need of socket, as they are joined in butt fusion technology, where both ends of pipe are joined with help of hot plate by melting both end and then press fit it as shower in picture below.

STEP 1

STEP 2

STEP 3

STEP 4

HOLE REPAIRING

1. If a pin hole is accidentally made in the (with a drill bit, for example) and the pin hole is in only one side of the pipe, it can be repaired with a new pipe by thermal welding.

2. A pin hole in pipe can be repaired with hole repair bar and repair tool in thermal welding.

3. A pin hole both side of pipe can be repaired with welding socket.

(Repair process of hole repair bar)

Savoir Faire Manufacturing Company Pvt. Ltd.

IS :15801

CM/L 3064445

Socket

PRODUCT ID	SIZE
101600	16 MM
102000	20 MM
102500	25 MM
103200	32 MM
104000	40 MM
105000	50 MM
106300	63 MM
107500	75 MM
109000	90 MM
1011000	110 MM
1016000	160 MM

Elbow 45°

PRODUCT ID	SIZE
121600	16 MM
122000	20 MM
122500	25 MM
123200	32 MM
124000	40 MM
125000	50 MM
126300	63 MM
127500	75 MM
129000	90 MM
1211000	110 MM
1216000	160 MM
1220000	200 MM
1225000	250 MM
1231500	315 MM
1235500	355 MM
1240000	400 MM

Elbow 90°

PRODUCT ID	SIZE
131600	16 MM
132000	20 MM
132500	25 MM
133200	32 MM
134000	40 MM
135000	50 MM
136300	63 MM
137500	75 MM
139000	90 MM
1311000	110 MM
1316000	160 MM
1320000	200 MM
1325000	250 MM
1331500	315 MM
1335500	355 MM
1340000	400 MM

Reducing Elbow

PRODUCT ID	SIZE
142016	20-16
142520	25-20
143220	32-20
143225	32-25
144032	40-32
145040	50-40

Reduction Socket

PRODUCT ID	SIZE
112016	20-16
112516	25-16
112520	25-20
114220	32-20
114225	32-25
114020	40-20
114025	40-25
114032	40-32
115020	50-20
115025	50-25
115032	50-32
115040	50-40
116340	63-40
116350	63-50
117540	75-40
117563	75-63
119050	90-50
119063	90-63
119075	90-75
1111075	110-75
1111090	110-90
11160110	160-110
1120090	200-90
11200110	200-110
11200160	200-160
11250160	250-160
11250200	250-200
11315200	315-200
11315250	315-250
11355250	355-250
11355315	355-315
11400250	400-250
11400315	400-315
11400355	400-355

Cross Tee

PRODUCT ID	SIZE
161600	16 MM
162000	20 MM
162500	25 MM
163200	32 MM
164000	40 MM
165000	50 MM

End Cap

PRODUCT ID	SIZE
181600	16 MM
182000	20 MM
182500	25 MM
183200	32 MM
184000	40 MM
185000	50 MM
186300	63 MM
187500	75 MM
189000	90 MM
1811000	110 MM
1816000	160 MM
1820000	200 MM
1825000	250 MM
1831500	315 MM
1835500	355 MM
1840000	400 MM

Tee

PRODUCT ID	SIZE
151600	16 MM
152000	20 MM
152500	25 MM
153200	32 MM
154000	40 MM
155000	50 MM
156300	63 MM
157500	75 MM
159000	90 MM
1511000	110 MM
1516000	160 MM
1520000	200 MM
1525000	250 MM
1531500	315 MM
1535500	355 MM
1540000	400 MM

Reduction Tee

PRODUCT ID	SIZE
172017	20-16-20
172517	25-16-25
172520	25-20-25
173220	32-20-32
173225	32-25-32
174020	40-20-40
174025	40-25-40
174010	40-32-40
175020	50-20-50
175025	50-25-50
175032	50-32-50
175040	50-40-50
176325	63-25-63
176332	63-32-63
176340	63-40-63
176350	63-50-63
177540	75-40-75
177550	75-50-75
177560	75-63-75
179050	90-50-90
179063	90-63-90
179075	90-75-90
1711050	110-50-110
1711063	110-63-110
1711075	110-75-110
1711090	110-90-110
17160110	160-110-160
1720090	200-90-200
17200110	200-110-200
17200160	200-160-200
17250160	250-160-250
17250200	250-200-250
17315200	315-200-315
17315250	315-250-315
17355200	355-200-355
17400315	400-315-400

Female Threaded Socket

PRODUCT ID	SIZE
201612	16 ½"
202012	20 ½"
202034	20 ¾"
202512	25 ½"
202534	25 ¾"
20251	25 1"
203212	32 ½"
203234	32 ¾"
2031 1	32 1"
2032114	32 1 ¼"
2040114	40 1 ¼"
2040112	40 1 ½"
2050112	50 1 ½"
20502	50 2"
20632	63 2"
2075212	75 2 ½"
20903	90 x 3"
201104	110 x 4"

Female Threaded Elbow

PRODUCT ID	SIZE
221612	16 ½"
222012	20 ½"
222034	20 ¾"
222512	25 ½"
222534	25 ¾"
2225 01	25 1"
224222	32 ½"
224234	32 ¾"
2242 01	32 1"
2242214	32 1 ¼"
2240114	40 1 ¼"
225012	50 ½"

SFMC®
PIPES & FITTINGS
Savoir Faire Manufacturing Company Pvt. Ltd.

IS :15801
CM/L 3064445

Crossover

PRODUCT ID	SIZE
192000	20 MM
192500	25 MM
193200	32 MM

Male Threaded Elbow

PRODUCT ID	SIZE
231612	16 ½"
232012	20 ½"
232034	20 ¾"
232512	25 ½"
232534	25 ¾"
232501	25 1"
233212	32 ½"
233234	32 ¾"
233201	32 1"
2332114	32 1 ¼"
2340114	40 1 ¼"
2350112	50 1 ½"
23502	50 2"
23632	63 2"
235112	75 2 ½"

Gate Valve

PRODUCT ID	SIZE
262000	20 MM
262600	25 MM
263200	32 MM
264000	40 MM
265000	50 MM
266300	63 MM
267500	75 MM
269000	90 MM
2611000	110 MM

Female Threaded Tee

PRODUCT ID	SIZE
241612	16 ½"
242012	20 ½"
242034	20 ¾"
242512	25 ½"
242534	25 ¾"
2425 01	25 1"
243212	32 ½"
2432 1/3	32 ¾"
2432 01	32 1"
2432114	32 1 ¼"
2440114	40 1 ¼"
2450112	50 1 ½"

Male Threaded Socket

PRODUCT ID	SIZE
211612	16 ½"
212012	20 ½"
212034	20 ¾"
212512	25 ½"
212534	25 ¾"
2125 01	25 1"
213212	32 ½"
213234	32 ¾"
2132 1	32 1"
2132114	32 1 ¼"
2140114	40 1 ¼"
2140112	40 1 ½"
2150112	50 1 ½"
215002	50 2"
216302	63 2"
2175112	75 2 ½"
21903	90 3"
211104	110 4"

Male Threaded Tee

PRODUCT ID	SIZE
251612	16 ½"
252012	20 ½"
252034	20 ¾"
252512	25 ½"
252534	25 ¾"
2525 01	25 1"
253212	32 ½"
253234	32 ¾"
2532 01	32 1"
2532114	32 1 ¼"
2540114	40 1 ¼"
2550112	50 1 ½"

Ball Valve (Heavy Weight Brass)

PRODUCT ID	SIZE
272000	20 MM
272500	25 MM
273200	32 MM
274000	40 MM

Ball Valve (Plastic Body)

PRODUCT ID	SIZE
292000	20 MM
292600	25 MM
293200	32 MM
294000	40 MM
295000	50 MM
296300	63 MM
297500	75 MM
299000	90 MM

Visit Us @ www.sfmc-india.com

Wall Clamp

PRODUCT ID	SIZE
331600	16 MM
332000	20 MM
332500	25 MM
333200	32 MM
334000	40 MM
335000	50 MM

Union

PRODUCT ID	SIZE
302000	20 MM
302500	25 MM
303200	32 MM
304000	40 MM
305000	50 MM
306300	63 MM
307500	75 MM

Long Plug with O-Ring

PRODUCT ID	SIZE
3212	½”

Plug

PRODUCT ID	SIZE
3512	½”
3534	¼”

Double Union Ball Cock

PRODUCT ID	SIZE
44362000	20 MM
442500	25 MM
443200	32 MM
444000	40 MM
445000	50 MM
446300	63 MM

Welding Suitcase (16-40), (50-75), (90-110, 160)

PRODUCT ID	SIZE
391640	16-40
395075	50-75
3990110	90-110
39160	160

Single Welding Machine

PRODUCT ID	SIZE
431640	16-40
435075	50-75
4390110	90-110
43160	160

PPR Tank Connector

PRODUCT ID	SIZE
4212	2”
4234	¾”
4201	1”
42114	1¼
42112	1½”
42002	2”

Pipe Scissor

PRODUCT ID	SIZE
4000	16-32

PPR Butt Fusion Machine

PRODUCT ID	SIZE
43200	200-400

Welding Tool

PRODUCT ID	SIZE
411600	16 MM
412000	20 MM
412500	25 MM
413200	32 MM
414000	40 MM
415000	50 MM
416300	63 MM
417500	75 MM
419000	90 MM
4111000	110 MM
4116000	160 MM

Slip-on Flange (PPR/HDPE/MS)

PRODUCT ID	SIZE
443200	32 MM
444000	40 MM
445000	50 MM
446300	63 MM
447500	75 MM
449000	90 MM
4411000	110 MM
4416000	160 MM
4420000	200 MM
4425000	250 MM
4431500	315 MM
4435500	355 MM
4440000	400 MM

SFMC ® PIPES & FITTINGS

Savoir Faire Manufacturing Company Pvt. Ltd.

IS :15801

CM/L 3064445

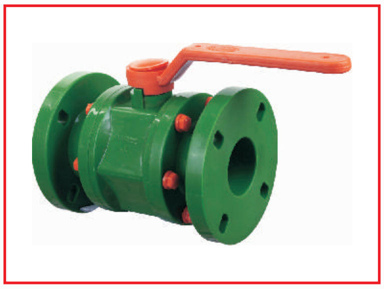
Ball Valve (Light Weight Brass)

PRODUCT ID	SIZE
282000	20 MM
282500	25 MM
283200	32 MM

Flange Socket / Core (Stub End)

PRODUCT ID	SIZE
343200	32 MM
344000	40 MM
345000	50 MM
346300	63 MM
347500	75 MM
349000	90 MM
3411000	110 MM
3416000	160 MM
3420000	200 MM
3425000	250 MM
3431500	315 MM
3435500	355 MM
3440000	400 MM

Flange End Ball Valve



PRODUCT ID	SIZE
409000	90 MM
4011000	110 MM
4016000	160 MM
4020000	200 MM
4025000	250 MM
4031500	315 MM
4035500	355 MM
4040000	400 MM

Male Threaded Union

SIZE	THREADS	D	L
20 x ½	½"	19.2	17.8
25 x 3/4	¾"	24.2	19.0
32 x 1	1"	31.2	23.5
40 x 1-1/4	1¼"	39.2	28.5
50 x 1-1/2	1½"	47.6	24.6
63 x 2	2"	60.6	28.1

Female Threaded Union

SIZE	THREADS	D	L	L1
20 x ½	½"	19.2	17.5	18.0
25 x 3/4	¾"	24.2	19.0	18.5
32 x 1	1"	31.2	23.6	20.4
40 x 1-1/4	1¼"	39.2	28.4	23.0
50 x 1-1/2	1½"	47.7	23.6	31.5
63 x 2	2"	60.6	28.4	28.7

PIPE SUPPORT

SPLIT CLAMP

Range

Plain Split Clamps

EPDM Rubber Lined Split Clamps

Size : 20 mm to 400 mm

SPRINKLER HANGER

Range

Plain Sprinkler Hanger

EPDM Rubber Lined Plain

Sprinkler Hangers

Size : 20 mm to 200 mm

CLEVIS HANGER

Range

Plain Sprinkler Hanger

EPDM Rubber Lined Plain

Sprinkler Hangers

Size : 20 mm to 400 mm

U BOLTS

Range

Plain U Bolt

EPDM Rubber U Bolt

Size : 20 mm to 400 mm

SADDLES (Heavy & Light Duty)

Range

Plain Saddles

Heavy & Light Duty

Size : 20 mm to 150 mm

HOUSE CONNECTIONS

INDUSTRIAL CONNECTIONS

RAILWAY CONNECTIONS

SFMC® PIPES & FITTINGS

Savoir Faire Manufacturing Company Pvt. Ltd.

IS :15801

CM/L 3064445

Our Certificates & Test Reports

CERTIFICATE OF REGISTRATION

This is to Certify that

SAVOIR FAIRE MANUFACTURING CO. PVT. LTD.

has been assessed and found to comply with the requirement of

ISO 9001:2015

Quality Management System

For the following activities

Certificate Number : QMS230502

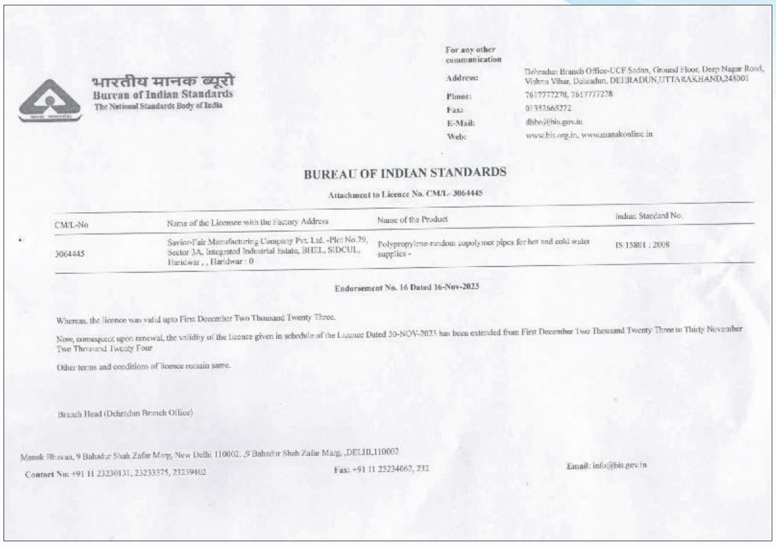
Original Certification Date 03/05/2023

1st Surveillance Due on 02/05/2024

2nd Surveillance Due on 02/05/2025

Certificate Expiration Date 02/05/2026

Authorised Signatory



भारतीय मानक ब्यूरो

Bureau of Indian Standards

The National Standards Body of India

BUREAU OF INDIAN STANDARDS

Attachment to Licence No. CM/L- 3064445

CM/L-No	Name of the Licensee with the Factory Address	Name of the Product	Indian Standard No.
3064445	Savior-Fair Manufacturing Company Pvt. Ltd. -Plot No.29, Sector 3A, Integrated Industrial Estate, BHEL, SIDCUL, Haridwar , , Haridwar - 0	Polypropylene-random copolymer pipes for hot and cold water supplies -	IS 15801 : 2008

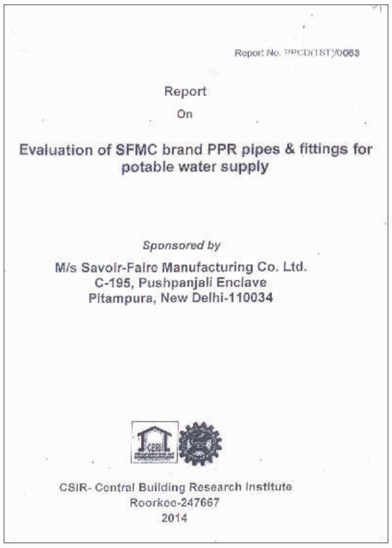
Endorsement No. 16 Dated 16-Nov-2023

Whereas, the licence was valid upto First December Two Thousand Twenty Three.

Now, consequent upon renewal, the validity of the licence given in schedule of the Licence Dated 30-NOV-2023 has been extended from First December Two Thousand Twenty Three to Thirty November Two Thousand Twenty Four

Other terms and conditions of licence remain same.

Branch Head (Dehradun Branch Office)



Report No. PPCD(TST)/0083

Report

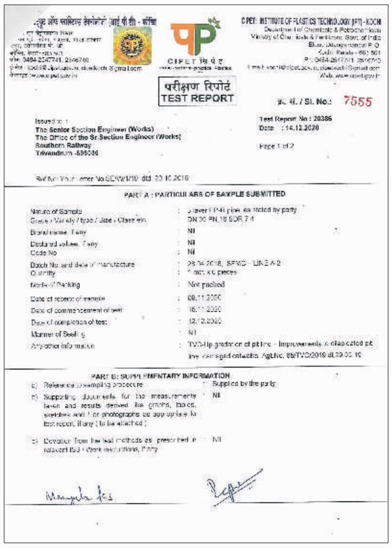
On

Evaluation of SFMC brand PPR pipes & fittings for potable water supply

Sponsored by

M/s Savoir-Faire Manufacturing Co. Ltd.
C-195, Pushpanjali Enclave
Pitampura, New Delhi-110034

CSIR- Central Building Research Institute
Roorkee-247667
2014



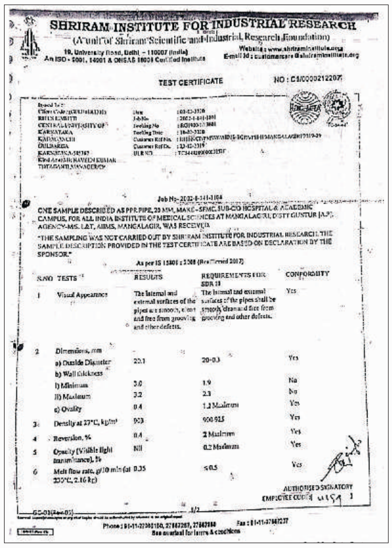
CIPET

परीक्षण रिपोर्ट

TEST REPORT

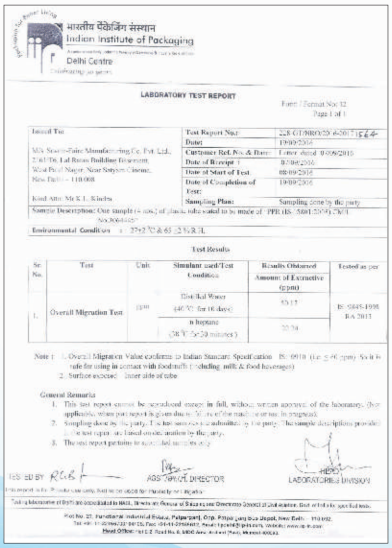
Sl. No.: 7555

PART A : PARTICULARS OF SAMPLE SUBMITTED



SHRIRAM INSTITUTE FOR INDUSTRIAL RESEARCH

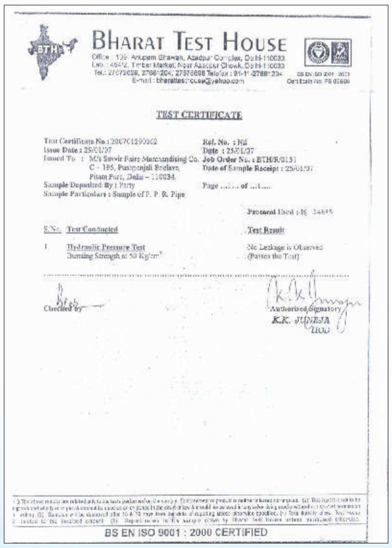
TEST CERTIFICATE



भारतीय पैकेजिंग संस्थान

Indian Institute of Packaging

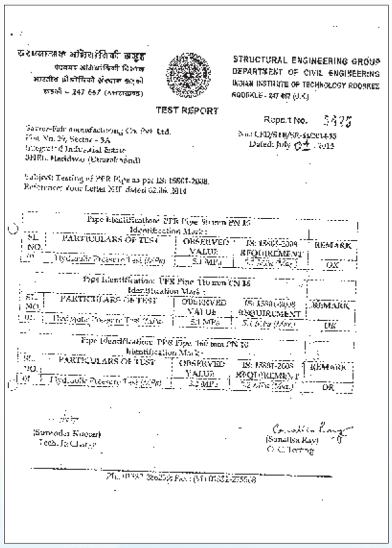
LABORATORY TEST REPORT



BHARAT TEST HOUSE

TEST CERTIFICATE

BS EN ISO 9001 : 2000 CERTIFIED



STRUCTURAL ENGINEERING GROUP

TEST REPORT

Members of Organization of International Repute

- Indian Plumbing Association
- World Plumbing Council
- FIEO (Federation of Indian Export Organizations)

Government Approval of SFMC Products

- PHED (JJM)
- UPRNN
- DDA
- Railways
- MHADA
- CIDCO
- Engineers India Limited
- TATA Group
- MES and Army
- Larsen & Toubro (L&T)
- Royal Govt. of Bhutan
- PWD of Various State
- Municipal Corporation of Mumbai

OUR PRESTIGIOUS CLIENTS

SFMC®

PIPES & FITTINGS

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Sector-66, Golf Course Extension Road,
Gurugram-122101 (Haryana)

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Patna, Guwahati, Emakulam, Trivendram.

WORKS

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Dehradun (Uttrakhand)
Sitarganj (Uttrakhand)
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Nepal

Website : www.sfmc-india.com
Email : info@sfmc-india.com
enquiry@sfmc-india.com

IS : 15801
CM/L 3064445

ISO 9001

GeM
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e Marketplace
Savoir Faire Manufacturing Co. Pvt. Ltd.
Seller Id : 1E69180000496995