

# Complete piping solution for building industry

Operating needs and maintenance aspects are currently receiving greater attention than ever. In view of this and to overcome the diffculties associated with conventional piping products the new range of Supreme plumbing products emerges as the most appropriate and ideal solution.

The Supreme Industries Itd; has evolved as an undisputed leader in India's plastics industry, with valuable experience in providing innovative and cost effective piping solution. Supreme is synonymous with Quality, Innovation and Service and is a trend setter in plastic piping system in India. Company's objective is to meet the growing needs of the customers in water, waste management and infrastructure sector through specially developed high performance piping range. Comprehensive and exclusive range of Supreme plastic piping systems are designed and manufactured to meet and please practically - the highest standards set by the building and construction industry across the world.





# High pressure uPVC plumbing system

**THE SYSTEM:** Supreme "lead free" aqua gold high pressure uPVC solvent weld plumbing system is the most suitable, easy and economical solution for transportation and distribution of potable water. It is technically superior, cost effective and offers many advantages over conventional G.I. piping system. This system is very easy to install and functionally most suitable for plumbing application like terrace looping, down-take and up-take lines in building industry. Apart from more than 40% cheaper to GI piping system, it has many more years of service life. This hygienic system is endowed with many good features and hence now approved by **MCGM.** It is a value added long term plumbing solution for building industry. Aqua gold pipes as per ASTM D-1785 and wide range of fittings in SCH 80 as per ASTM D-2467 are available in ½" (21.34mm) to 8" (219.08mm) sizes. In addition to this, SCH 40 fittings in ½" (24.34mm) to 1" (33.40mm) as per ASTM D-2466 are available. Pipes are 3 m long and are available in SCH 40 and SCH 80 pressure class.

## **FEATURES AND BENEFITS**

**Stronger, Resilient and Longer Lasting -** This system is highly resilient, tough and durable with high tensile and impact strength. Moreover it is free from weaknesses caused by rusting, weathering and chemical action, and hence lasts for a life time.

**Mechanical properties -** The PVC pipes are relatively more flexible. They have adequate tensile strength and even burst strength to withstand the operating pressures encountered in almost all service conditions within the acceptable range of temperature for the system. External shocks or impacts that could cause failure in more rigid materials can be absorbed by the system with little or no damage.

**Excellent chemical and corrosion resistance -** This system is free from corrosion and has excellent resistance to various chemicals like strong mineral acids.

**Light weight** - Being light in weight (1/6th the weight of metal piping), these pipes are easy to handle, transport and install.

**Simple and leak proof joints -** Jointing can be done speedily with the special solvent cement supplied by the company which ensures 100 % leak proof joints.

Most suitable for carrying drinking water - Being non metallic, this system is free from corrosion, chemical action, and negative biological effects, hence absolutely safe for carrying potable water.

**Optimum flow rates -** Mirror-smooth inside surface ensures high flow rate and low frictional losses. This system is free from rusting, pitting and offers good resistance to scale formation.

**Piping system integrity -** Supreme aqua gold offers pipes with a large range of fittings. This implies a complete system solution made of the same material.

**Overall Economy -** Due to light weight and simple joining technique, it saves cost not only on material but also on transportation and installation.

### Dimensions and water pressure rating at 23°C as per ASTM D-1785

Nominal Bore		0.111	Sched	lule 40	Schedule 80			
		Outside Diameter (D)	Wall Thickness (t)	Working Pressure		Wall Thickness (t)	Working Pressure	
(mm)	(inch)	(mm)	(mm)	Kgf / cm <sup>2</sup>	psi	(mm)	Kgf / cm <sup>2</sup>	psi
21.34	1/2	21.34 ± 0.10	2.77 + 0.51	41.4	600	3.73 + 0.51	58.6	850
26.67	3/4	26.67 ± 0.10	2.87 + 0.51	33.1	480	3.91 + 0.51	47.6	690
33.40	1	33.40 ± 0.13	3.38 + 0.51	31.0	450	4.55 + 0.53	43.4	630
42.16	11/4	42.16 ± 0.13	3.56 + 0.51	25.5	370	4.85 + 0.58	35.9	520
48.26	1½	48.26 ± 0.15	3.68 + 0.51	22.8	330	5.08 + 0.61	32.4	470
60.32	2	60.32 ± 0.15	3.91 + 0.51	19.3	280	5.54 + 0.66	27.6	400
73.02	2½	73.02 ± 0.18	5.16 + 0.61	20.7	300	7.01 + 0.84	29.0	420
88.90	3	88.90 ± 0.20	5.49 + 0.66	17.9	260	7.62 + 0.91	25.5	370
114.30	4	114.30 ± 0.23	6.02 + 0.71	15.2	220	8.56 + 1.02	22.1	320
141.30	5	141.30 ± 0.25	6.55 + 0.79	13.1	190	9.52 + 1.14	20.0	290
168.28	6	168.28 ± 0.28	7.11 + 0.86	12.4	180	10.97 + 1.32	19.3	280
219.08	8	219.08 ± 0.38	8.18 + 0.99	11.0	160	12.70 + 1.52	17.2	250







Based on World's Best Japanese Material and Technology

# The latest and reliable plumbing system for Hot and Cold water

**THE SYSTEM:** Supreme Lifeline C-PVC plumbing system is another long lasting and cost effective solution for the hot and cold water. This system is suitable for all plumbing and potable water application. The pipes and fittings are made of chlorinated polyvinyl chloride and it is available in complete range from 15mm to 50mm (i.e. ½" to 2") sizes as per copper tube sizes (CTS). The pipes are available in SDR 11 and SDR 13.5 pressure class. Heavy duty SDR 9 pipes and fittings are also available in 20mm and 25mm (i.e. ¾" and 1") size. Threaded inserts in the transition fittings are made from brass. Supreme Lifeline C-PVC CTS pipes and fittings are manufactured according to IS15778 and ASTM D-2846 respectively. Pipes and fittings in 2½", 3" and 4" (i.e. 73.02, 88.90 and 114.30mm) are also available in IPS pipe size (inch series similar to aqua gold) as per ASTM F441 and F439 respectively. The choice of the raw material, the structural accuracy and the quality assurance gives the Supreme Lifeline C-PVC system a high degree of reliability. As a result Lifeline C-PVC is now approved by **MCGM**.

### **FEATURES AND BENEFITS**

**Excellent resistance to corrosion and chemical attacks** - Lifeline is absolutely free from corrosion and offers excellent resistance to various chemicals like strong mineral acids and bases

**Ideal system for carrying drinking water -** Lifeline is an absolutely free from corrosion and negative biological effects. It does not break down under the harshest water condition hence the quality of water never deteriorates.

**Light weight, easy and quick assembly -** together with simple solvent cement jointing method results in extensive saving on time and labour.

**Tough and Rigid material -** C-PVC has a much higher strength/modulus than other thermoplastics used in plumbing applications. This material can withstand high pressure and temprature. Due to its tough and rigid material property it requires less supports with minimum offsets/looping.

**Simple and leak proof joints -** Jointing can be done speedily with special solvent cement supplied by the company which ensures 100% leak proof joints.

**Low thermal expansion -** Lifeline C-PVC has a lower coefficient of thermal expansion reducing expansion due to temperature variations and thereby reducing unsightly looping of the pipe.

**Superior insulation property -** Lifeline has better insulation properties than metal pipes, thus reducing heat loss and insulation requirement.

Fire Resistance-Lifeline C-PVC does not support combustion.

**Maintenance free -** Being free from rusting, pitting or scaling and galvanic or electrolytic corrosion, maintenance is minimal.

**Overall Economy -** This system is most cost effective than any other plumbing system.

#### Pipe dimensions and pressure rating chart as per IS15778

	The dimensions and procedure raining chart do per re-re-re-															
			SDR - 9 (company standard)					SDR -	– 11	SDR - 13.5						
Nominal Bore		Outer Diameter ( D ) in mm		Wall Thickness ( t )			Working Pressure at		Wall Thickness ( t )		Working Pressure at		Wall Thickness ( t )		Working Pressure at	
				(mr	n)	27°C	82°C	(mm) 27		27°C	82°C	(mm)		27°C	82°C	
(mm)	(inch)	Minimum	Maximum	Minimum	Maximum	Kg/	cm²	Minimum	Maximum	Kg	cm²	Minimum	Maximum	Kg /	cm²	
15	1/2"	15.8	16.0	_	_	_	_	1.70	2.20	27.60	6.80	1.40	1.90	21.80	5.50	
20	3/4"	22.1	22.3	2.50	3.00	35.20	8.80	2.00	2.50	27.60	6.80	1.70	2.20	21.80	5.50	
25	1"	28.5	28.7	3.20	3.80	35.20	8.80	2.60	3.10	27.60	6.80	2.10	2.60	21.80	5.50	
32	11/4"	34.8	35.0	_	_	_	_	3.20	3.70	27.60	6.80	2.60	3.10	21.80	5.50	
40	11/2"	41.2	41.4	_			_	3.80	4.30	27.60	6.80	3.10	3.60	21.80	5.50	
50	2"	53.9	54.1	_			_	4.90	5.50	27.60	6.80	4.00	4.60	21.80	5.50	

#### Pipe dimensions and pressure rating chart as per ASTM F 441

	- the annotation and processing rating of the company of the compa											
Nominal Bore		Outer Diameter (D) in mm			Schedule	e 40		Schedule 80				
				Wall Thickness (t) (mm)		Working Pressure at		Wall Thickness (t) (mm)		Working Pressure at		
		(2)				23°C	82°C			23°C	82°C	
(mm)	(inch)	Minimum	Maximum	Minimum	Maximum	Kg/	cm²	Minimum Maximum		Kg / cm²		
73.02	2 ½"	72.84	73.20	5.16	5.77	20.70	5.20	7.01	7.85	29.00	7.20	
88.90	3"	88.70	89.10	5.49	6.15	17.90	4.50	7.62	8.53	25.50	6.20	
114.30	4"	114.07	114.53	6.02	6.73	15.20	3.80	8.56	9.58	22.10	5.50	

**Note:** When connected to gas water heater, CPVC should not be located within 50cm of the flue. For water heaters lacking reliable temperature control, this distance may be increased up to 1mt. A metal nipple or flexible appliance connector should be utilized.



# indo green<sup>™</sup> PP-R The most reliable plumbing system for Hot and Cold water

THE SYSTEM: Supreme indo green PP-R is designed for hot and cold water application and it is the latest and most suitable system for all plumbing applications. The specific chemical structure of indo green PP-R provides the well balanced mechanical properties and superior long term heat resistance. More importantly, the water flowing through it does not have any negative biological effect and hence remain most hygienic. Indo green pipes are approved and listed by W.R.A.S., UK, thus endorse its suitability for potable water. Indo green PP-R is the most suitable and ideal solution for housing sector. Indo green PP-R is now approved by MCGM.

RAW MATERIAL: The Supreme indo green pipes and fittings are made of polypropylene random copolymer type - 3 (PP-R), supplied by reputed companies which have Bodycote certification. Bodycote is an independent International testing body certifying the raw material. It has high molecular weight and excellent creep resistance, which are fundamental characteristics for the transportation of hot fluids under pressure.

#### **FEATURES AND BENEFITS**

Light weight, easy and quick assembly - which results in extensive saving on time and labour.

Most suitable for carrying drinking water - PP-R is absolutely free from corrosion, and negative biological effects. It does not break down even under the harshest of water conditions, hence the quality of water never deteriorates. It is in full compliance with the International standards on the use of plastic materials for the transportation of potable water. It is endorsed with the most prestigious W.R.A.S. (UK) certification.

Excellent corrosion and chemical resistance - PP-R offers a considerable resistance to various chemicals, aggressive soils and fluids in the external environment.

Low thermal conductivity - which results in much saving on insulation costs thereby reducing overall operational costs.

Mirror smooth inside surface - This ensures high flow rates and very low frictional losses.

High impact strength - Indo green PP-R has a very good impact strength and hence no possibility of breakage.

Safe and watertight joints - Joint formed by polyfusion welding are homogeneous, integral, watertight and long lasting.

Free from scaling - Due to unique properties of indo green PP-R,it is free from scaling and the resultant blockage in the pipelines.

Long operational durability - Indo green system ensures a minimum 50 years of trouble free performance.

Overall Economy - This system is more cost effective than any other plumbing system. Moreover, due to savings in installation and insulation costs, this system is even comparable with standard make G.I., B class piping system.

UV-Resistance - Indo green PP-R pipes are made UVstabilized with special exterior UV- resistant layer and hence fully safe against ultra-violet rays.

### PRODUCT SPECIFICATIONS AND RANGE:

Supreme indo green pipes are manufactured according to IS 15801 whereas fittings are manufactured as per ISO 15784 standard. Supreme indo green pipes and fittings are available in the dimensions 20 mm to 160 mm. Pipes are supplied in 3m lengths in SDR-11, SDR-7.4 and SDR-6 pressure class where as fittings are available in PN 20 and/or PN 25. All the threaded inserts in the transition fittings are in duly nickel plated brass to withstand chemical corrosion at elevated temperatures.

#### Pipe dimensions as per IS 15801 specifications

Nominal Size			SDR-11 Wall Thickness (t) in mm			R-7.4 ess (t) in mm	SDR-6 Wall Thickness (t) in mm		
(mm)	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum	
20	20.0	20.3	1.90	2.30	2.80	3.30	3.40	4.00	
25	25.0	25.3	2.30	2.80	3.50	4.10	4.20	4.90	
32	32.0	32.3	2.90	3.40	4.40	5.10	5.40	6.20	
40	40.0	40.4	3.70	4.30	5.50	6.30	6.70	7.60	
50	50.0	50.5	4.60	5.30	6.90	7.80	8.30	9.40	
63	63.0	63.6	5.80	6.60	8.60	9.70	10.50	11.80	
75	75.0	75.7	6.80	7.70	10.30	11.60	12.50	14.00	
90	90.0	90.9	8.20	9.30	12.30	13.80	15.00	16.70	
110	110.0	110.9	10.00	11.20	15.10	16.90	18.30	20.40	
160	160.0	161.5	14.60	16.30	21.90	24.30	26.60	29.50	



# S.W.R.

# uPVC SOIL, WASTE AND RAINWATER (S.W.R.) DRAINAGE SYSTEM



**THE SYSTEM:** Supreme is the pioneers in introducing this efficient S.W.R. drainage system to India. It has created an identity of its own due to continuous development and by assuring consistent quality. The Supreme S.W.R. drainage system is designed for quick and efficient removal of waste without leakage. It is highly resilient, tough and durable with high tensile strength and high impact strength. More ever it is free from scale formation, rusting, weathering and chemical action. It is virtually immune to attack by bacteria, fungi and other microorganisms and insects. The system is suitable for outdoor application as it is uv-stabilized and hence lasts for life time. Thus the system is a long term solution for building drainage with minimum estimated life of 50 years. In addition to various benefits this system is more cost effective than any conventional drainage system. Supreme S.W.R. drainage system is approved by **MCGM**.

### **FEATURES AND BENEFITS**

#### High quality standards and wide range:

Pipes are available in 75mm to 160 mm and fittings are available in 40mm to 160mm. Pipes conforms to IS 13592:92 and fittings conforms to IS 14735:99 and are made as per international standards. Unique click ring type fittings are most suitable to be used in combination with Type B pipes for high-rise buildings. The system consists of pipes and wide range of fittings with various traps, which makes the system complete in all respect and hence customer need not to depend on conventional system for any reason.

**Stronger and Long Lasting -** This system is highly resilient, tough and durable with high tensile strength and high impact strength. Moreover it is free from problems caused by scale formation, rusting, weathering and chemical action, and hence lasts for lifetime.

**Excellent chemical and corrosion resistance -** Being non-metallic, this system is completely free from corrosion and offers very good resistance to wide range of chemicals.

**UV resistance-** which eliminates the adverse effect of sunlight and weather and can therefore be safely used for outdoor installations.

**Quick and convenient installation -** Being extremely light in weight and provided with special rubber jointing technique, installation of this system becomes much easier.

Quick and efficient removal of waste without leakage - Superior flow characteristics are ensured by the mirror smooth, restriction free inner surface of pipes and fittings, thus the system is free from problems of clogging and drain choke-up. System is completely leak-proof and designed to maintain high standards of hygiene.

Adequate and easy access for cleaning and clearing obstructions.

**Least maintenance -** Once installed Supreme S.W.R. drainage system needs minimal maintenance.

**Cost Effective -** Supreme S.W.R. drainage system is more cost effective than any conventional drainage system.

A comprehensive range of products are offered in 75,90,110 and 160 mm in rubber ring, click ring and pasting type. Various traps and special fittings makes the system complete in all respect. Pipes conforms to IS:13592:92 where as the fittings conforms to IS:14735:99 and are made as per international standards.

### Pipes conform to IS 13592-1992

Nominal outside	Tolerance	Wall Thickness ( t ) mm									
	on outoido	Тур	e-A	Тур	e-B	Sufla (Non-standard)					
diameter (D) mm	diameter mm	Min.	Max.	Min.	Max.	Min.	Max.				
75	+0.3	1.8	2.2	3.2	3.8	1.4	1.6				
90	+0.4	1.9	2.3	3.2	3.8	-	-				
110	+0.4	2.2	2.7	3.2	3.8	1.5	1.65				
160	+0.5	3.2	3.8	4.0	4.6	2.7	3.2				

**NOTE**: As per IS 13592-1992 **TYPE A** pipes are recommended for use in ventilation pipe work and rain water application and **TYPE B** pipes are recommended for use in soil and waste discharge system.

Pipes are available in 2, 3, 4, 6 and 10 feet lengths in single and double sockets in all sizes.



# **Underground Drainage and Sewerage system**

with readymade Ultra inspection chambers and manhole



**THE SYSTEM:** Supreme proudly offer Nu-drain Underground Drainage System (UDS). It is one of the latest and unique product development, which is a breakthrough in underground drainage and sewerage system giving several advantages over erstwhile underground sewerage products made from conventional materials. Conventional products are associated with several problems which can be broadly classified into Leakage, Blockages and Breakages. Installation of these conventional products is also cumbersome and time consuming. On the other hand the Supreme Nu-drain underground drainage system is not only free from these problems but equipped with many outstanding features resulting in an effective advance option to traditional products. Nu-drain underground drainage system with readymade inspection chamber is now approved by **MCGM**.

# **FEATURES AND BENEFITS**

**Great flexibility** - Due to availability of readymade inspection chambers and manhole, long lengths of lighter weight pipes and different components, installation of this system is very convenient and fast.

**Perfect hydraulic properties -** Mirror smooth inside surface of the pipes and streamline design of the chambers, greatly reduces the possibility of blockages and maximize flow characteristics. As a result, carrying capacity of these pipes can be increased by 40% over concrete pipes.

**Great strength -** System is sufficiently durable to meet siteloading requirements.

**Watertight system -** Pipe and riser/shaft connection with the chamber base is absolutely watertight and unique design of pipe joints with click ring and sealing ring, hence makes the system completely leak proof.

**Hygienic and safe -** Trouble free performance of the joints without blockage and leakage ensures high standards of hygiene.

# Components of Nu - Drain System:

**Inspection chambers -** Following different sizes of chambers and manhole along with covers are available in the range.

- 1. Ultra 250 with and without trap provision with 110 mm inlet(s) and outlet. (size of the trap is 75 mm)
- Ultra 315 mm with 110 mm inlet(s) and outlet is available in seven different flow profiles/ configurations.
- 3. Ultra 355 mm with 160 mm inlet(s)/ outlet in 5 different configurations.
- Ultra 450 mm multiple inlet(s) with two 110 mm inlets at 45° and two 160 mm inlets at 90° with main inlet/outlet in 160mm.

Ultra 450mm chamber in different flow configurations with

**Minimum excavation cost** - Because of simple jointing technique, trench width can be kept minimum and smoother bore of the pipe allow high flow rates at relatively flatter gradients.

**Different flow profile designs -** Inspection chambers and manholes are available in different flow profiles/configurations of inlet(s) and outlet in different sizes to suit the site requirements. Unwanted inlets if any can be closed with the help of blanking plugs.

**Minimal Maintenance -** Optimum functional qualities and good hydraulic properties plays an important part in reducing the need for jetting and other forms of maintenance, and therefore operational costs are considerably reduced.

**Longer life and overall economy -** Being free from problems like corrosion and susceptibility to chemical reactions and as designed to carry soil and traffic loads, it is sufficiently durable, and offers long and trouble free service life.

- 200mm main inlet(s)/ outlet and 160, 200 mm branch inlet(s).
- 5. Ultra 600 mm with 200 and 250 mm inlet(s) and outlet in six different configurations.
- 6. Ultra 1000 mm manhole with 160, 250, 315 inlet(s)/outlet in different configurations.

#### Ultra 250:

This unique inspection chamber of 250 x 110 mm in uPVC is featured with provision of 75 mm trap and hence one can directly combine soil and waste lines to reduce the cost. This is also available without trap and hence customer has choice to use this chamber as per site requirements. This small version of inspection chamber is recommended for small bungalows/houses where maximum invert depth is up to 600 mm.



# Ultra 315, Ultra 355 and Ultra 450:

Ultra inspection chambers in different sizes comprise chamber base, riser(s) in specially designed polypropylene/PE grade whereas cover and frame is in uPVC. Entire assembly provides a completely sealed system up to ground level. It offers a wide variety of flow profiles, giving you an option for all 110-200 mm drainage applications. A choice of different configurations provides a comprehensive, level invert system with excellent flow characteristics.

Ultra 450 inspection chamber is designed to provide the method of collecting 110/160/200 mm drains at invert depth up to 1280 mm by the use of Ultra 450 risers. Maximum five risers are recommended. In addition to the risers, shaft pipe in different lengths are also made available which gives maximum invert depth 1295 mm. Based on number of risers or shaft length used, invert depth can be obtained.

Concentric grooves are given on the exterior face of the riser which acts as cutting guides and shallower depths can be achieved by cutting the riser.

#### **Ultra 600:**

The Ultra 600 inspection chamber consists of the base, corrugated shaft and adjustable telescopic adapter which provides proper seating base for GRP/SFRC ring and cover. Use of telescopic adapter is not mandatory. The Ultra 600 base is available in 6 different flow configurations.

All flow configurations are provided with specially designed swivel adaptor which allow a free angular deflection of 7.5° from the center line in each direction. This robust type of chamber is suitable for installation depths from 0.8 to 5 meters. The shaft provides excellent resistance to ground movement and heavy traffic loads. Ultra 600 is suitable for 250 mm pipe and eccentric reducers are available to connect 160 mm and 200 mm size pipes.

#### Ultra 1000:

Access to the sewer system for inspection, cleaning or maintenance is obtained either through inspection chamber or manhole. Unlike conventional drainage system the entry of man in advanced plastic drainage / sewer system comprising readymade chamber or manhole is almost not required. In most cases modern technology CCTV inspection cameras for inspection and jet cleaners for cleaning are available.

Supreme make small diameter inspection chamber facilitate such remote cleaning and inspection without entry of man. Most of sewer requirements are met in Ultra 600 chambers. However for the circumstances where man entry is essentially required, Supreme has introduced Ultra 1000 mm manhole. The Ultra 600 chamber as well as Ultra 1000 manhole offer advantages like water tightness, easy and fast installation and less maintenance resulting in effective solution. The Ultra 1000 manhole consists a base, a shaft and a cone (at the top). Shaft is available in different lengths and can be placed one on the other for increased depth. The complete set

is suitable upto 6m invert depth. The advanced cone and shaft design with ribs and corrugation and shape of cone makes the assembly strong enough and stable to withstand heavy traffic loads. It has spacious 600 mm entrance and is provided with ladder. The ultra 1000 manhole base is available in different flow profiles and suitable for pipe connection from 160 to 400 mm.

# In-situ Adapter:

Specially designed in-situ adapters are available for accessing any line at any height (through shaft) or angle other than the inlets of available or selected configuration of the chamber / manhole. This adapter can be used for assessing any line even in post installation condition.

### Cover solution:

Ultra 315 and Ultra 450, frame and cover is available which can tilts and rotate to suit site conditions. Cover is designed for installation in light traffic and a pedestrian area is made in uPVC with loading capacity of 35 KN i.e. for 3.5 tone wheel load. Light duty cover is also made available in Ultra 250, 315 and 355 for pedestrian areas where traffic load is not expected. For internal use, sealed cover are also available. Frame and cover is designed to be push-fitted into either a riser or a base. Each cover supplied with 4 screw holes suitable for self tapping screws provided with frame and cover.

For heavy traffic condition, GRP/SFRC frame and cover is also available for Ultra 450, Ultra 600 chamber and Ultra 1000 manhole. (Covers with grating are also available.)

### Hi-tech pipes, High performance joints:

Specially designed hi-tech Eco-drain pipes are noticeably lighter and less expensive than any existing PVC pipe of similar stiffness and many times lighter than a concrete pipe with equivalent load carrying capacity. These pipes are made as per EN-13476 standard and offered in 6 m length. Beside Ecodrain pipes, solid wall PVC pipes conforming to IS 15328 and marked with ISI mark are available in 3 m and 6 m lengths in different sizes. Separate coupler with unique design of click ring and rubber sealing rings are available which makes the system absolutely watertight.

#### PE Pipes:

HDPE pipes are also available in 63 to 450 mm in PN2.5 to PN16 pressure class. These pipes are manufactured as per IS 14333:1996 and are available in 6 meter length. The pipes are jointed either by click ring type fittings or by butt welding, thus absolutely watertight. These pipes are most advantageous for undulating terrains.

### Accessories:

In addition to the chambers and pipes, accessories like coupler, tee, bend, blanking plug, and reducing bush, reducers and various traps along with covers makes the system complete with all respects.



A mega project at Gadegaon, Dist.: Jalgaon (MS)

- Any specification can change without prior notice.
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