



*Innovation & Quality*



# GSK IRRIGATION PVT. LTD.

HDPE PIPE | HDPE SPRINKLER SYSTEM | MICRO IRRIGATION SYSTEM | MDPE PIPE  
PIPE FITTINGS | SPRAY PIPE | PPR PIPE & FITTINGS | PLB DUCT PIPE & ACCESSORIES

[www.gskirrigation.com](http://www.gskirrigation.com)



## ABOUT US

### One of The Leading Brand in India in Piping Technology

**GSK IRRIGATION PRIVATE LIMITED** Established In Year 2008. We Are AN ISO 9001:2015 CERTIFIED COMPANY. We Are Ahmedabad Based Company Which Are Engaged In Manufacturing Of HDPE Pipe, MDPE Water Pipe, Emitting Pipe , Lateral Pipe, PP & PVC Valves, Drip & Sprinkler Irrigation Fittings, Drip Irrigation Systems, PP Flanges, Irrigation Lateral Cocks, Compression Fittings, Rubber Rings & Grommets, Etc. We Are One Of The Leading Manufacturers And Suppliers Of Drip & Sprinkler Components. We Also Develop & Manufacture Product As Per Requirement Of The Customer. We Believe In Quality And Timely Delivery To The Customer. For Us "Customer Is The King" And Our Motto Is "Innovation & Quality".

## OUR MISSION

**GSK IRRIGATION PVT LTD** Is Growing Day By Day To Fulfill Our Dreams. GSK Has Only One Mission To Cater Our Customers Best Quality Products With Reasonable Price To Earn His Good Will. We Follow The Principle Of "Customer Is The King"

## OUR VISION

**GSK IRRIGATION PVT LTD** Has Goal To Achieve Great Milestone In Domestic As Well As International Market. GSK Want To Screen Our Footprints On All Over The World And To Be One Of The Significant Global Player In Drip Irrigation Industries.



We began our journey as an entrepreneur engaged in Manufacturing Of HDPE Pipe, MDPE Pipes, Emitting Pipes, Lateral Pipe and Sprinkler pipe and their fittings. In Order to make sure quality and to avoid any kind of flawlessness, our offered products are precisely manufactured by making use of high grade raw material & modern technology in adherence to the set international quality parameters. These are highly recognized in the market for their unique attributes such as high strength, splendid quality and Long service life.



**STRONGER  
PIPES**

**STRONGER  
BOND**

**RESEARCH & DEVELOPMENT**



**BIC Ltd (UK)**  
Certificate of Compliance

*This is to certify that*

**GSK IRRIGATION PRIVATE LIMITED**  
REG. OFFICE: 305, THIRD FLOOR, NEEL KANTH PARADISE, NR. GALAXY CINEMA, NARODDAB330, GUJARAT, INDIA

This is to certify that specifications for the Plastic Piping systems Mechanical fittings for Pressure Piping System of above organization has been assessed and registered by BIC LTD against scope of supply and provision of

**ISO 17885:2015**  
"Manufacture and Supply of Compression Fittings"  
Size Range: 16MM to 110MM

Date of Initial Registration: 05-10-2020 Issue Date: 04-02-2021  
1<sup>st</sup> surveillance Audit Due: 05-10-2021 Expiry Date: 04-02-2023  
2<sup>nd</sup> surveillance Audit Due: 05-10-2022

Certificate No: - 5324G08BIC20

To check the validity of this certificate please visit [www.biccert.co.uk](http://www.biccert.co.uk)




**BIC Ltd (UK)**  
Certificate of Compliance

*This is to certify that*

**GSK IRRIGATION PRIVATE LIMITED**  
REG. OFFICE: 305, THIRD FLOOR, NEEL KANTH PARADISE, NR. GALAXY CINEMA, NARODDAB330, GUJARAT, INDIA

This is to certify that specifications for the Plastic Piping Systems Polyethylene (PE) Pipes and Fitting for water supply of above organization has been assessed and registered by BIC LTD against scope of supply and provision of

**ISO 4427-2:2007**  
"Manufacture and Supply of Polyethylene (PE) Pipes and Fittings used for water supply."  
Size Range: DN/OD of 20MM to 450MM  
Material Grade: PE63, PE80 and PE100

Date of Initial Registration: 10-08-2019 Issue Date: 10-08-2019  
1<sup>st</sup> surveillance Audit Due: 09-07-2020 Expiry Date: 09-08-2022  
2<sup>nd</sup> surveillance Audit Due: 09-07-2021

Certificate No: - 5349G08BIC19R-A

To check the validity of this certificate please visit [www.biccert.co.uk](http://www.biccert.co.uk)




**BIC Ltd (UK)**  
Certificate of Registration

*This is to certify that the*

**Quality Management System of**  
**GSK IRRIGATION PRIVATE LIMITED**  
REG. OFFICE: 305, THIRD FLOOR, NEEL KANTH PARADISE, NR. GALAXY CINEMA, NARODDAB330, GUJARAT, INDIA

Has been independently assessed by BIC Ltd and meet the following standard details below:



**ISO 9001:2015**  
For the following scope of certification

**MANUFACTURE AND DISPATCH OF PLASTIC PIPES, CONDUITS MADE OF MATERIALS LIKE PE, PVC, PP, THEIR FITTINGS AND ACCESSORIES FOR APPLICATIONS LIKE WATER SUPPLY, AGRICULTURE AND DISTRIBUTION SYSTEM**

Certificate No: - QMS08/BIC19/5348R

Date of Initial Registration: 10-08-2019 Issue Date: 10-08-2019  
1<sup>st</sup> surveillance Audit Due: 09-07-2020 Expiry Date: 09-08-2022  
2<sup>nd</sup> surveillance Audit Due: 09-07-2021

To check the validity of this certificate please visit [www.biccert.co.uk](http://www.biccert.co.uk)

**BIC Ltd (UK)**  
Certificate of Compliance

*This is to certify that*

**GSK IRRIGATION PRIVATE LIMITED**  
REG. OFFICE: 305, THIRD FLOOR, NEEL KANTH PARADISE, NR. GALAXY CINEMA, NARODDAB330, GUJARAT, INDIA

This is to certify that specifications for the Plastic Piping Systems Polyethylene (PE) Pipes and Fitting for water supply of above organization has been assessed and registered by BIC LTD against scope of supply and provision of

**ISO 4427-1:2007**  
"Manufacture and Supply of Polyethylene (PE) Pipes and Fittings used for water supply."  
Size Range: DN/OD of 20MM to 450MM  
Material Grade: PE63, PE80 and PE100

Date of Initial Registration: 10-08-2019 Issue Date: 10-08-2019  
1<sup>st</sup> surveillance Audit Due: 09-07-2020 Expiry Date: 09-08-2022  
2<sup>nd</sup> surveillance Audit Due: 09-07-2021

Certificate No: - 5349G08BIC19R-A

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## OUR PRODUCTS

**GSK Irrigation Pvt. Ltd.** is manufacturer and Suppliers Of HDPE PIPES & FITTINGS In India We are a prominent manufacturer, exporter and supplier of an impeccable quality array of HDPE Pipe, MDPE Water Pipe, Emitting Pipe , Lateral Pipe, PP & PVC Valves, Drip & Sprinkler Irrigation Fittings, Drip Irrigation Systems, PP Flanges, Irrigation Lateral Cocks, Compression Fittings, Rubber Rings & Grommets, etc as per IS Standard & ISO Standards.

## HDPE PIPES



In the earlier days, the commonly used piping material was M.S., R.C.C., Cement, etc. As the time advanced, these materials proved to be costly in handling, installation and maintenance. This led to the discovery of pipes/ducts made from plastic materials. GSK Irrigation Pvt Ltd is a pioneer in the manufacture of plastic pipe systems in Ahmedabad, Gujarat. Today's modern polyethylene resins are highly engineered for rigorous applications within a wide range of applications where a tough, ductile material is required to assure long-term performance.

### APPLICATION:

Polyethylene pipes provide a cost effective solution for a wide range of piping applications such as water supply, drainage and sewerage, industrial piping for slurry and abrasive materials, liner for petroleum flow lines, electrical and telecommunication cable ducting.

### ADVANTAGES :

One of the major factors that contribute to the growth of polyethylene as a piping material is the cost savings in installation. Polyethylene pipe is a tough and durable system whilst retaining its flexibility and leak proof characteristics thus ensuring lower maintenance costs and increased service life as compared to traditional piping material.



## AS PER IS 4984:2016 WALL THICKNESS OF HDPE

SDR	SDR 41		SDR 33		SDR 26		SDR 21		SDR 17	
PE 63	PN 2		PN 2.5		PN 3.2		PN 4		PN 5	
PE 80	PN 2.5		PN 3.2		PN 4		PN 5		PN 6	
PE 100	PN 3		PN 4		PN 5		PN 6		PN 8	
DN	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
20										
25										
32									1.90	2.20
40							1.90	2.20	2.40	2.70
50					2.00	2.30	2.40	2.70	3.00	3.40
63					2.50	2.90	3.80	3.40	3.70	4.20
75	1.90	2.20	2.30	2.60	2.90	3.30	3.60	4.10	4.50	5.10
90	2.20	2.50	2.80	3.20	3.50	4.00	4.30	4.80	5.30	5.90
110	2.70	3.10	3.40	3.80	4.30	4.80	5.30	5.90	6.50	7.30
125	3.10	3.50	3.80	4.30	4.80	5.40	6.00	6.70	7.40	8.20
140	3.50	4.00	4.30	4.80	5.40	6.00	6.70	7.50	8.30	9.20
160	3.90	4.40	4.90	5.50	6.20	6.90	7.70	8.60	9.50	10.60
180	4.40	4.90	5.50	6.20	7.00	7.80	8.60	9.60	10.60	11.80
200	4.90	5.50	6.10	6.80	7.70	8.60	9.60	10.70	11.80	13.10
225	5.50	6.20	6.90	7.70	8.70	9.70	10.80	12.00	13.30	14.70
250	6.10	6.80	7.60	8.50	9.70	10.80	12.00	13.30	14.70	16.30
280	6.90	7.70	8.50	9.50	10.80	12.00	13.40	14.80	16.50	18.30
315	7.70	8.60	9.60	10.70	12.20	13.50	15.00	16.60	18.60	20.60

SDR	SDR 13.6		SDR 11		SDR 9		SDR 7.4		SDR 6	
PE 63	PN 6		PN 8							
PE 80	PN 8		PN 10		PN 12.5		PN 16		PN 20	
PE 100	PN 10		PN 12.5		PN 16		PN 20			
DN	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
20			1.90	2.20	2.30	2.60	2.70	3.10	3.40	3.80
25	1.90	2.20	2.30	2.60	2.80	3.20	3.40	3.80	4.20	4.70
32	2.40	2.70	2.90	3.30	3.60	4.10	4.40	4.90	5.40	6.00
40	3.00	3.40	3.70	4.20	4.50	5.10	5.40	6.00	6.70	7.50
50	3.70	4.20	4.60	5.20	5.60	6.30	6.80	7.60	8.40	9.30
63	4.70	5.30	5.80	6.50	7.00	7.80	8.60	9.60	10.50	11.70
75	5.60	6.30	6.90	7.70	8.40	9.30	10.20	11.30	12.50	13.90
90	6.70	7.50	8.20	9.10	10.00	11.10	12.20	13.50	15.00	16.60
110	8.10	9.00	10.00	11.10	12.30	13.60	14.90	16.00	18.40	20.30
125	9.20	10.20	11.40	12.70	13.90	15.4	16.90	18.70	20.90	23.10
140	10.30	11.40	12.80	14.20	15.60	17.30	19.00	21.00	23.40	25.80
160	11.80	13.10	14.60	16.20	17.80	19.70	21.70	24.00	26.70	29.50
180	13.30	14.70	16.40	18.10	20.00	22.10	24.40	26.90	30.00	33.10
200	14.70	16.30	18.20	20.10	22.30	24.60	27.10	29.90	33.40	36.80
225	16.60	18.40	20.50	22.70	25.00	27.60	30.50	33.70	37.50	41.40
250	18.40	20.30	22.80	25.20	27.80	30.70	33.80	37.30	41.70	46.00
280	20.60	22.80	25.50	28.20	31.20	34.40	37.90	41.80	46.70	51.50
315	23.20	25.60	28.70	31.70	35.00	38.60	42.60	47.00	52.50	57.90

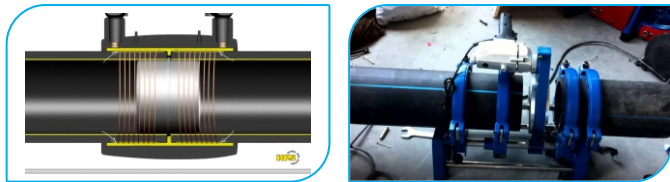
## HDPE FITTINGS

**GSK** stocks a wide range butt-weld, compression, electro-fusion and socket-weld fittings. All fittings are made from PE100 and sizes range from 16mm to 1000mm (Depends fitting). All moulded fittings conform to various international quality standards and certification.

### JOINTING METHOD

One of the greatest features of HDPE pipe is that a wide range of jointing systems are available to suite any application. The jointing systems can be divided into two main categories with further sub-divisions in each category.

#### PERMANENT JOINTING



#### NON-PERMANENT JOINTING



### MOLDED & COMPRESSION FITTING RANGE

1. Compression Fittings
2. PE100 Electro fusion Fittings
3. Clamp Saddles
4. Electro Fusion Reducers
5. PP Flanges
6. Transition Fittings
7. Electrofusion Tees
8. Electrofusion Elbows
9. Electrofusion Branch Saddles
10. Electrofusion Tapping Saddles



### FABRICATED FITTINGS

**GSK** fabricates all types of fittings out of our PE100 piping. Tees, Seamless bends, segmented bends and stubs. We can fabricate as per drawing and as per requirement.

#### Product Range

1. PE100 Moulded Butt-weld Fittings
2. PE100 Fabricated Butt-weld Fittings



MDPE, or medium-density polyethylene, is a type of common plastic that has a uniquely specific density. It has very high shock- and drop-resistance properties, is fewer notches sensitive and is far more resistant to cracking than other plastics like HDPE. A versatile material, MDPE is used in a number of other industries and can be used in gas pipes, carrier bags and screw closures. It has a sound chemical resistance and is generally stable at room temperature. Furthermore, MDPE is particularly flexible, more cost-effective than other plastics and metals used in plumbing, is easily recycled and can handle swift temperature changes.

It is vital to note that MDPE pipes are made to complement MDPE pipe fittings. Attempting to use MDPE pipes with fittings of a different material could result in complications and potentially, a costly renovation job

## BENIFITS OF MDPE PIPE

There are many benefits to choosing MDPE over other piping materials. It has a high impact resistance body, which allows it to absorb thermal and mechanical weight. All fittings and pipes are also designed to be easy to connect to, saving time on site. This ease of installation is particularly convenient if you are a beginner searching for a comparatively fast fix

Contemporary MDPE pipes have a larger diameter, amplifying the water flow into a home and making it more powerful. In both residential and commercial properties, higher water flows can help lessen your energy bills and reduce stress on appliances.

While slightly more expensive than a basic plastic equivalent, MDPE water pipes are available with a cast-iron effect for use outside the home.

Most MDPE water pipes are available from all good retailers in the industry. However, some retailers will specialize in more environmentally-friendly materials and can often deliver premium fittings for a slightly expanded price.

MDPE pipes come in a number of dimensions. You need to consider the factors of the work at hand before you decide on a pipe diameter. This includes the scale of the job; whether residential or industrial, the geographical climate, work space and the quality of the water in the vicinity of the property.





# TECHNICAL SPECIFICATIONS OF MDPE PIPES

## AS PER ISO 4427-2-2007 WALL THICKNESS OF MDPE WATER PIPES

PIPE SERIES																							
		SDR 6		SDR 7.4		SDR 9		SDR 11		SDR 13.6		SDR 17		SDR 21		SDR 26		SDR 33		SDR 41			
		S 2.5		SDR 3.2		S 4		S 5		S 6.3		S 8		S 10		S 12.5		5.16		S 20			
NOMINAL PRESSURE BAR																							
								PN 10		PN 8													
		PN 25		PN 20		PN 16		PN 12.5		PN 10		PN 8		PN 6		PN 5		PN 4		PN 3.2			
				PN 25		PN 20		PN 16		PN 12.5		PN 10		PN 8		PN 6		PN 5		PN 4			
NOMINAL SIZE	OD Tolerance	E MIN	E MAX	E MIN	E MAX	E MIN	E MAX	E MIN	E MAX	E MIN	E MAX	E MIN	E MAX	E MIN	E MAX	E MIN	E MAX	E MIN	E MAX	E MIN	E MAX		
16	0.3	3.0	3.4	2.3	2.7	2.0	2.3																
20	0.3	3.4	3.9	3.0	3.4	2.3	2.7	2.0	2.3														
25	0.3	4.2	4.8	3.5	4.0	3.0	3.4	2.3	2.7	2.0	2.3												
32	0.3	5.4	6.1	4.4	5.0	3.6	4.1	3.0	3.4	2.4	2.8	2.0	2.3										
40	0.4	6.7	7.5	5.5	6.2	4.5	5.1	3.7	4.2	3	3.5	2.4	2.8	2.0	2.3								
50	0.5	8.3	9.3	6.9	7.7	5.6	6.3	4.6	5.2	3.7	4.2	3.0	3.4	2.3	2.8	2.0	2.3						
63	0.6	10.5	11.7	8.6	9.6	7.1	8	5.8	6.5	4.7	5.3	3.8	4.3	3.0	3.4	2.5	2.9						
75	0.7	12.5	13.9	10.3	11.5	8.4	9.4	6.8	7.6	5.6	6.3	4.5	5.1	3.6	4.1	2.9	3.3						
90	0.9	15.0	16.7	12.3	13.7	10.1	11.3	8.2	9.2	6.7	7.5	5.4	6.1	4.3	4.9	3.5	4						
110	1	18.3	20.3	15.1	16.8	12.3	13.7	10.0	11.1	8.1	9.1	6.6	7.4	5.3	6	4.2	4.8						
125	1.2	20.8	23.0	17.1	19.0	14.0	15.6	11.4	12.7	9.2	10.3	7.4	8.3	6.0	6.7	4.8	5.4						
140	1.3	23.3	25.8	19.2	21.3	15.7	17.4	12.7	14.1	10.3	11.5	8.3	9.3	6.7	7.5	5.4	6.1						
160	1.5	26.6	29.4	21.9	24.2	17.9	19.8	14.6	16.2	11.8	13.1	9.5	10.6	7.7	8.6	6.2	7.0						
180	1.7	29.9	33.0	24.6	27.2	20.1	22.3	16.4	18.2	13.3	14.8	10.7	11.9	8.6	9.6	6.9	7.7						
200	1.8	33.2	36.7	27.4	30.3	22.4	24.8	18.2	20.2	14.7	16.3	11.9	13.2	9.6	10.7	7.7	8.6						
225	2.1	37.4	41.3	30.8	34.0	25.2	27.9	20.5	22.7	16.6	18.4	13.4	14.9	10.8	12.0	8.6	9.6						
250	2.3	41.5	45.8	34.2	37.8	27.9	30.8	22.7	25.1	18.4	20.4	14.8	16.4	11.9	13.2	9.6	10.7						
280	2.6	46.5	51.3	38.3	42.3	31.3	34.6	25.4	28.1	20.6	22.8	16.6	18.4	13.4	14.9	10.7	11.9						
315	2.9	52.3	57.7	43.1	47.6	35.2	38.9	28.6	31.6	23.2	25.7	18.7	20.7	15.0	16.6	12.1	13.5	9.7	10.8	7.7	8.6		
355	3.2	59.0	65.0	48.5	53.5	39.7	43.8	32.2	35.6	26.1	28.9	21.1	23.4	16.9	18.7	13.6	15.1	10.9	12.1	8.7	9.7		
400	3.6			54.7	60.3	44.7	49.3	36.3	40.1	29.4	32.5	23.7	26.2	12.1	21.2	15.3	17.0	12.3	13.7	9.8	10.9		
450	4.1			81.5	67.8	50.3	55.5	40.9	45.1	33.1	36.6	26.7	29.5	21.5	23.8	17.2	19.1	13.8	15.3	11.0	12.2		
500	4.5					55.8	61.5	45.4	50.1	36.8	40.6	29.7	32.8	13.9	26.4	19.1	21.2	15.3	17	12.3	13.7		
560	5.1					62.5	68.9	50.8	56.0	41.2	45.5	33.2	36.7	26.7	29.5	21.4	23.7	17.2	19.1	13.7	15.2		
630	5.7					70.3	77.5	57.2	63.1	46.3	51.1	37.4	41.3	30	33.1	24.1	26.7	19.3	21.4	15.4	17.1		
710	6.4					79.3	87.4	64.5	71.1	52.2	57.6	42.1	46.5	33.9	37.4	27.2	30.1	21.8	24.1	17.4	19.3		
800	7.2					89.3	98.4	72.6	80.0	58.8	64.8	47.4	52.3	38.1	42.1	30.6	33.8	24.5	27.1	19.6	21.7		
900	8.1							81.7	90.0	66.2	73.0	53.3	58.8	42.9	47.3	34.4	38.3	27.6	30.5	22.0	24.3		
1000	9							90.2	99.4	72.5	79.9	59.3	65.4	47.7	52.6	38.2	42.2	30.6	33.5	24.5	27.1		
1200	10.8									88.2	97.2	67.9	74.8	57.2	63.1	45.9	50.6	36.7	40.5	29.4	32.5		
1400	12.6									102.9	113.3	82.4	90.8	66.7	73.5	53.5	59	42.9	47.3	34.3	37.9		
1600	14.4									117.6	129.5	94.1	103.7	76.2	84.0	61.2	67.5	49.0	54.0	39.2	43.3		
1800	16.2											105.9	116.6	85.7	94.4	69.1	76.2	54.5	60.1	43.8	48.3		
2000	18													117.6	129.5	95.2	104.9	76.9	84.7	60.6	66.8	48.8	53.8



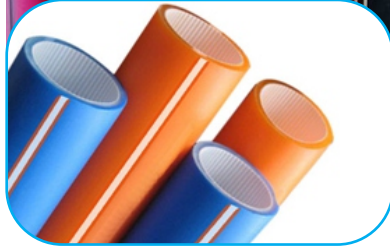
**GSK IRRIGATION PVT. LTD.** vast experience of and research has developed an ultimate piping solution for industrial piping has been developed for all application such as chemical applications. Water line soft water, Raw Water, R.O. Water, D.M. Water Lower Temperature applications, all types of utility line and process lines. Companies Faces Many Problem Like Leakages Corrosion - erasion, Heatloss, Sagging.

## SPECIFICATIONS

<b>Product Name</b>	<b>GSK Brand PP-R Pipes</b>
<b>Range</b>	<b>We offer a wide range of PPR Pipes as Per The Table Below</b>
<b>Standards</b>	<b>As per DIN 8077</b>
<b>Grade</b>	<b>Random Co-Polymer</b>
<b>Color</b>	<b>Green With White Strip, Available With Yellow Strips Also</b>
<b>Where Can Be Used</b>	<b>For Hot &amp; Cold Water in all types of building, Rainwater Utilization System Agriculture &amp; horticulture sectors, irrigation systems and chemical industries etc.</b>
<b>Advantages</b>	<b>Excellent corrosion and emission resistance, high chemical resistance, Anti fungal &amp; non toxic, leak proof, wide temperature range, very low thermal loss, long service life, Hegligible head loss etc.</b>



## PLB DUCT PIPES



### Applications

Telecommunication, Computer Network, Automatic Signaling, Railway Information Network, Highways, Cable Service Providers, Board Brand Networks, Electric Cable Installation Etc.

### Specification

PLD HDPE DUCT Consists of 2 concentric Layers, the outer & inner layer being co extruded with HDPE for Permanent to reduce the internal coefficient of friction (PLB)

**Materials :** HDPE granules to be used for the outer & inner layer of PLB HDPE DUCT shall Confirm to Tec Standards. standard meeting the requirements when tested as per IS:4984

**Product Range :** Available in Size 32mm, 40mm, 50mm, 63mm, 75mm Outer Diameter.

**Length :** Available in Standard Length 50, 100, 200, 500, 1000 & 2000 Meter Coils Depending on The Pipes. Dimensions, or Large Diameter in Fixed Length of 6 Meter as Per Customer Requirements.

**Colour :** Grey, Green, Orange, Blue, Violet, Yellow, Orange, Blue, Black, Red, Brown.

### Features

1. Outstanding Resistance to conventional chemicals & environments.
2. flexible & highly durable.
3. long length up to 1000mt. (depending upon the size)
4. excellent flow characteristics.
5. reduction of Stress on Cable During Installation.
6. Installation of Longer Lengths Made Feasible
7. Negotiations of Cable Movement Through Bends and deflections and Easier.
8. Reduce Number of Joints and Minimizes Number of Splices.
9. Faster and Easy Installation of Cable with lesser workers.
10. Reduction of overall Cost of Installation, Maintenance and future upgrades.
11. Retains its Properties Throughout its Life.
12. Existing Cables Can be Deploy After de-blowing From The Duct.
13. This Does Not Have Toxic and Derma Tic Hazards and is safe Handling.



## MICRO DRIP IRRIGATION



## MINI SPRINKLER IRRIGATION



### What is Micro Irrigation ?

Slow & regular application of water directly to the root zone of plants through a network of economically designed plastic pipes and low discharge emitters.

### What are GSK Micro Irrigation Systems (GMS)?

**GSK Micro Irrigation** Systems encompass low-cost drip and sprinklers. **GSK systems** are assembled and packaged for small plots along with user-friendly instruction manuals that enable small holders to cultivate commercial crops. In other words, micro irrigation can maximize crop productivity and protect the environment through conserving soil, water and fertilizer resources, while also increasing farmer income.

### Advantages of GSK Micro Irrigation Systems (GMS).

Some of the major Advantages of GMS are given below

1. **GMS** is available in affordable sizes from local suppliers at prices lower than other available irrigation systems.
2. Slow and regular application of water and nutrients uniformly to all plants improves product quality and uniformity, and increases yield.
3. Water savings are 50%, compared to traditional irrigation methods. This means that when using **GMS**, a farmer can irrigate more crop area per unit of water used.
4. Less labor is required for irrigation, weeding, and fertilizer application compared to traditional production methods.
5. Fertilizer losses are minimized with **GMS**, reducing fertilizer costs.
6. Most of the **GMS** are gravity operated systems or operated with low horsepower pumps, reducing energy demand for irrigation.
7. **GMS** can be used on undulated terrain (hilly areas) where irrigation by traditional methods is difficult.
8. Due to slow and regular application of water by **GMS**, concentration of salts in the root zone is reduced and by micro-leaching salts are kept away from the root zone.
9. Regular irrigation ensures timely inter-culturing operations and spraying, allowing better control over potential crop diseases. It also reduces the incidence of diseases common with flood irrigation.
10. Slow and regular application of water keeps an optimum soil-water-air ratio in the soil which is essential for healthy plant growth. It also reduces the need for frequent inter-culturing, weeding, etc. Combined with the above-mentioned savings, cultivation costs on the whole are reduced.
11. A number of different crops can be irrigated using **GMS** including vegetable crops, fruit crops, commercial cash crops, flowers, etc.





**GSK** HDPE Sprinkler Pipes & Fittings are manufactured under strict quality control with latest technology conforming to IS-17425. GSK HDPE Sprinkler Pipes & Fittings are best preferred for efficient use of water, fertilizers and electricity in irrigation of a variety of crops like cotton, soyabean, wheat, gram, groundnut, pulses etc. Also used for checking of dust pollution in cement industries and mining pits. Sprinkler pipes are also used for playground, golf course, huge gardens maintenance. GSK HDPE Sprinkler Pipes & Fittings have been preferred over available resources due to varied salient features.

## FEATURES

1. Strong and Durable
2. Light Weight and Flexible
3. Energy Saving
4. Leak Proof
5. Inert to
  - 1) Chemical
  - 2) Corrosion
  - 3) Environmental stress
6. Safe – UV stabilizer for protection from sunlight & avoid degradation of materials.
7. High Quality Grade Pipe & Fittings
8. Water Saving.
9. Long Lasting & Maintenance Free.

## SPRINKLER IRRIGATION SYSTEM PARTS.

**Water source and pump unit:** A specific pressure is required for delivering water to the sprinklers. Required measures shall be taken while delivering irrigation water to the piping against substances which may block the system.

**Main pipe:** It delivers water to lateral pipes. It can be employed as an underground or aboveground system optionally. Suitable diameter shall be preferred according to the received water quantities.

**Lateral pipe:** They receive the water from main pipe and deliver it to the sprinklers. Their diameters are lower than the main pipe.

**Fittings:** Used for joining pipes and sprinklers. These parts shall ensure a flexible connection, prevent leakage at joints under pressure, shall ensure drainage automatically when pressure is released, offer convenient connection and disconnection actions and be resistant to abrasion.

**Sprinkler units:** Sprinklers shall distribute the water to the field uniformly without causing surface flow or excessive drainage at the root section. Its performance impacts the entire system.

## SPRAY PIPE



Spray pipes are manufactured from virgin high performance engineering plastic material, are UV Resistant, Flexible and Light Weight. They Have Excellent resistance to pesticides and other chemical containing acid, alkalis, salts etc. & are used for spraying agri & horticulture Plants

**Range Available** in ID 8, 10 mm & OD 16, 20 & 25 mm in Blue Color With Yellow Strip & Pressure Ratings 10 to 18 kg/sq. cm and up to 1000 Meter Length.



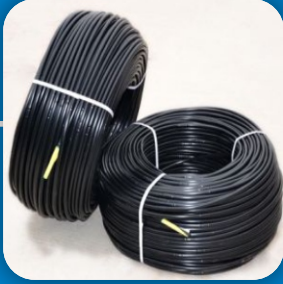
## GROUP COMPANIES



## OUR CLIENTELE



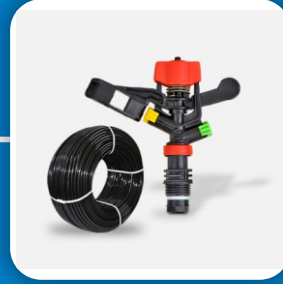
# STRONGER | STRONGER PIPES | BOND



**DRIP IRRIGATION  
PIPE**



**HDPE SPRINKLER  
SYSTEM**



**MINI SPRINKLER  
IRRIGATION SYSTEM**



**SPRAY PIPE**

## **GSK IRRIGATION PVT. LTD.**

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