



# **BAGHBAAN VINIMAY PRIVATE LIMITED**

An ISO 9001:2015 & 4427:2019 Certified Company

Mfg. Drip Irrigation System, Mini Sprinkler System, Sprinkler System  
Plastic Mulch Film, HDPE Coil Pipe & Geomembrane Pond Sheet

## COMPANY INTRODUCTION :

Baghbaan Vinimay Pvt. Ltd. is a prominent manufacture of Drip Irrigation System, PCND Drips, Mini Sprinkler System, Sprinkler System, HDPE Coil Pipe & Plastic Mulch Film used in Agricultural Irrigation Segment. It is based in Jaipur and has wide dealer and distributor network across the Rajasthan and adjoining States. These products are well known and popular under "BAAGWAAN" Brand for its quality, efficiency and durability.

The Company has two manufacturing units in Jaipur, which makes it able to perform the entire manufacturing process effectively under one roof. Both the units are equipped with state of the art latest manufacturing machinery and equipment's that enable to produce a perfectly designed and a fault-free variety of products. The applicable technology helps in speeding production process, thus meeting client's demands within the specified time frame. Furthermore, the entire production range is made using by high-grade raw material and components that make the produced items more durable and reliable.



Owing to the consistent delivery of superior quality range in the market, we have achieved an ISO 9001:2015 & ISO 4427-1:2019 certification & licenced by bureau of India Standard to mark ISI certification of different rage of product having different BIS code and markings. To meet the business objectives of our company and ever changing need of clients, we work hard to deliver products in conformation with the set industrial standards and guidelines. To execute systematic business operations and meet the bulk orders of clients within the stipulated time, we have developed a highly spacious and robust infrastructure. We have installed advanced machinery and equipment in our production unit, which allow us t o manufacture a flawless range within client specific time, we have developed a highly spacious and robust infrastructure. We have installed advanced machinery and equipment in our production unit, which allow us to manufacture a flawless range within client specific time and date. Moreover, we have partitioned our entire infrastructure into various other departments such as production Department, R&D Department, Quality Control Department, Administrative department and others. Moreover, by working under the astute guidance of our mentor, Mr. Radhe Shyam Sharma, our firm has achieved a remarkable position in the industry. His passion for work and rich knowledge about this domain has helped us to remain a step ahead or our competitore

## QUALITY CONTROL SYSTEM

Baghbaan vinimay Pvt. Ltd. is committed to providing products and services that meet or exceed all customer requirements and applicable standards and specifications. Each employee is committed to this goal. The Corporate Quality Policy is to continually improve installation performance by supplying —on time—goods, services and information of a quality standard that shall consistently meet or exceed the requirements of our customers. We will ensure a high level of customer satisfaction to maintain long term commitments, productive customer relationships, and to provide a positive work environment. All personnel of the firm are responsible for the attainment and maintenance of this quality standard. **Baghbaan vinimay Pvt. Ltd.** is ISO 9001-2015 certified and is regularly audited by outside parties for performance to this standard.

The implementation of the Corporate Quality Policy has resulted in the establishment of our Quality System and it's associated Quality Procedures. Our dedication to Quality Improvement is expressed throughout our training of new employees and the continuous training of all employees. Each employee of quality control unit is responsible for the quality of the product and services that he or she shall produce or provide. Employee training and accountability is a significant part of our quality program. Our quality plan is reviewed on a regular basis in our Quality Improvement Meetings. All employees, from top management to the newest hire are represented at the Quality Improvement Meetings. All feedback from customer contacts, by our Field Representatives, Sales Representatives and Management Representatives is discussed. The information that we receive from our customers is critical in the formation of our Quality Plan, to insure that the needs of our customer are transmitted to all employees and acted upon in a timely and effective manner.



# CERTIFICATE

*This is to Certify that the  
Quality Management System  
of*

## **BAGHBAAN VINIMAY PRIVATE LIMITED**

F-172, Manda Phase 1, RIICO Industrial Area, Manda,  
Via Chomu, District, Jaipur (Rajasthan) india

**has been independently assessed and is compliant  
with the requirements of**

### **ISO 9001:2015**

**This Certificate is applicable to the following product or service ranges:**  
MANUFACTURING, FABRICATION, ASSEMBLING, TRADING AND MARKETING OF  
AGRICULTURAL EQUIPMENTS & FITTINGS, GADGETS AND DEVICES OF ALL TYPES  
INCLUDING HDPE DRIP IRRIGATION LINE & ACCESSORIES, HDPE SPRINKLER PIPE &  
ACCESSORIES, POLYTHENE MULCH, PLASTIC GREEN HOUSE MATERIAL, PVC PIPE  
AND FITTINGS, AGRICULTURAL RELATED PLASTIC ITEMS, PLASTIC COLORED  
AND COATED SHEETS, RODS, TUBES, PIPES AND FITTINGS, SPRINKLER, ALL  
ALLIED & INCIDENTAL PRODUCTS AND SERVICES, DRIP IRRIGATION SYSTEM,  
MINI SPRINKLER SYSTEM AND SPRINKLER SYSTEM

*Certificate No.: IN90183A*

|  |                 |
|--|-----------------|
| Date of initial registration           | 14 October 2020 |
| Date of this Certificate               | 14 October 2020 |
| Surveillance audit on or before        | 13 October 2021 |
| Recertification Due/Certificate expiry | 13 October 2023 |

This Certificate remains valid subject to satisfactory surveillance audits

*Signature*  
\_\_\_\_\_  
Director



For verification and updated information concerning the present certificate visit to [www.lmscert.com](http://www.lmscert.com)  
This Certificate is the property of LMS Certification Limited and shall be returned immediately when demanded.



LMS Certification Limited  
Labyrinth Business Centre, 43 Middle Hill Gate, Stockport,  
Great Manchester, England-SK1 3DG  
Phone : +44 208 935 5594  
Company No.: 11029176  
Mail :- [www.lmscert.com](mailto:www.lmscert.com)



## Certificate of Compliance

This is to certify that the

### **BAGHBAAN VINIMAY PRIVATE LIMITED**

F-172, RIICO INDUSTRIAL AREA, MANDA PHASE-1ST,  
JAIPUR-302013, RAJASTHAN, INDIA  
727, NORTH AVENUE ARG GROUP, VKI ROAD NO. 9, SIKAR ROAD,  
RAJASTHAN, 302013, INDIA

*Has been assessed and found to operate in Compliance meets the requirements of  
following standard:*

### **ISO 4427-1:2019**

**(Plastics Piping Systems—Polyethylene (Pe) Pipes And Fittings  
For Water Supply—Part 1: General)**

For the following scope:  
**MDPE PIPE**

This certificate is issued under the following conditions:  
1. It applies only to the quality system maintained in the manufacture of above referenced scope / activities  
2. The certificate remains valid until the manufacturing conditions or the quality system are changed and is subject to continues surveillance according to the ISO 4427-1:2019 Guidelines  
3. The certificate validity is conditioned by positive results or surveillance audits.  
Certificate Number: QVA-BVLP-21-304390

**To verify this certificate please visit at [www.gaafs.us](http://www.gaafs.us)**

|                       |                               |
|-----------------------|-------------------------------|
| Date of Certification | 30 <sup>th</sup> October 2021 |
| Issuance Date         | 30 <sup>th</sup> October 2021 |
| 1st Surveillance Due  | 29 <sup>th</sup> October 2022 |
| 2nd Surveillance Due  | 29 <sup>th</sup> October 2023 |
| Re-Certificate Due    | 29 <sup>th</sup> October 2024 |



Authorized Signatory





QVA Certification  
CAB Address : Maryland Avenue, SW Washington, D.C. 20202  
Validity of this certificate is subject to annual surveillance audits to be done successfully  
This certificate is the property of QVA Certification and shall be returned immediately on request  
QVA Certification is an independent Systems Products and Personal

## THE QUALITY OF PLASTIC INCLUDES :-

- Testing Incoming Raw Materials: HDPE, LLDPE, LDPE, Black Masterbath, Silver Masterbath & Other Variety Plastic Granules
- Consistent setup and operation of processes to production standards
- Testing of each product to insure compliance to applicable standards along with firm Specifications and/or Customer Specifications, to name a few
- Inspection of all products by Production Personnel
- Inspection of all products by Quality Assurance Personnel
- Final Inspection prior to shipment/dispatch
- Regular feedback on performance, issues, and improvement plans is gathered and acted upon to continuously improve our operations and customer experience



## TEST FACILITIES AT OUR PREMISES

- Dimensional & visual Inspection
- Tensile Strength at yield & Elongation at break
- Reversion Test
- Environmental Stress Crack Resistance
- Impact Strength
- Crush Resistance
- Oxidation Induction Time (Thermal Analysis)
- Hydraulic Characteristics
- Internal Coefficient of Friction
- Density of the inner layer
- Thickness of the inner layer
- Sulphated Ash content of the duct
- Fading of colors of ducts/Pipes
- Pulling force on duct joined by coupler
- M.F.I of duct /Pipe
- Density of duct / Pipe
- Opacity
- Vicat softening temperature
- Resistance to external blow at 0°C temperature
- Effect on water
- Weldability Test
- Leakage Test
- Fusion Compatibility Test
- Type Test
- Stress Relief Test
- Overall Migration
- Carbon Black Content and Dispersion Test



## PRODUCTS OFFERED:

Baghbaan Vinimay Pvt. Ltd. is offering a vast array of Pipes, Rolls and Films available in series of sizes, materials and grades.



### Product List are as Follows:

#### Micro Irrigation System

- Inline Drip Irrigation (Round & Flat)
- Online Lateral (12mm, 16mm, 20mm)
- Head Unit & All Accessories
- PCND Drip Irrigation



#### Mini Sprinkler System

- Online Plain Lateral 32mm



#### Sprinkler Irrigation System

- Sprinkler Pipe (63mm, 75mm, 90mm & 110mm)
- Sprinkler Nozzle, All fitting Accessories



#### HDPE Coil Pipe

- HDPE Coil Pipe (20mm to 180mm) PN 2.5 To PN 10



#### Plastic Mulching Film (15 to 200 micron)

- Silver & Black, Green, White, Shade Net Film (15 to 200 micron)



#### PVC Pipe (20mm to 200 mm)

- U-PVC Pipe (Grey Colour)

# HDPE SPRINKLER PIPE & FITTINGS

Size Ranges from 63mm to 110 mm

## FITTINGS

Couple Bend.  
Couple Tee.  
Pump Connection Nipple.  
Sprinkler attachment with foot button.  
End Caps.  
Riser Pipe.  
Sprinkler Nozzle.

## Typical Properties of BAAGWAAN Sprinkler Pipes

| Properties                         | Value  |
|------------------------------------|--|
| M.F.I (190°C, 5Kg load)            | 0.41 to 1.1 gm / 10 min.                         |
| Specified based Density (27 ± 2°C) | 940.4 to 946.4 kg / mtr <sup>3</sup>             |
| Material Grade                     | PE-63  |
| Carbon Black                       | 2.5 ± 0.5%                                       |
| Antioxidant                        | <0.5 % by mass                                   |
| Tensile Strength (min) 27 ± 2°C,   | 19 Mpa (tesing Speed = 100mm / Min ± 10%         |
| Elongation                         | > 350 %  |
| Reversion                          | < = 3 %  |
| Hydraulic Characteristics          | No sign of localized swelling leakage or weeping |

## SALIENT FEATURES

Tough and resilient.  
Easy to use.  
Light in weight, hence easy to handle.  
Since flexible, perfect for laying on undulated lands.  
Leak proof.  
Resistant to chemicals.  
Rust proof and UV stable.  
Smooth internal surface hense low friction loss.  
Got a quick coupling system, which facilitates easy jointing.

## ADVANTAGES

Effective use of water, fertilizer and power.  
Reduction of soil erosion.  
Safety of crops



# HDPE SPRINKLER PIPE IRRIGATION SYSTEM

Agronomists all over the world believe that the sprinkler irrigation system is the best method to get maximum yield at an extremely low cost. Using sprinkler system can irrigate 2 to 3 times more farm land with same quantity of water. The sprinkler system cleans the surface of the plants, which helps in easy photosynthesis thus making plants able to produce more. It saves from irregularities of the weather.

In winters it saves from freezing of water. In summers it saves evaporation of water up to 40%. The Sprinkler effect (like rain) saves water from flowing away and maximum water reaches to the roots of the plants. It spreads water around the farm in equal quantity thus saving plants from bad effects of water clogging and water scarcity. With Sprinkler Irrigation System farming can be done easily on uneven surfaces.

## CONSTRUCTION

HDPE High Density Polyethylene is the most popular variety of polymers. Baagwaan Sprinkler Pipe is made of HDPE plastic material. It is the recommended material for the manufacture of high pressure pipes and is renowned world wide for its reliability. The characteristics that makes it outstanding are its toughness, its resistance to chemical attack and its immunity to weather conditions. This makes it an excellent material to convey water.

## SIZE RANGE

Size Range from 63 mm to 110 mm.

Pressure Class from PN-2.5 & 3.2 with complete range of fittings

PE Grades : PE-63

## PROPERTIES:

| Properties                | Value   |
|---------------------------|---|
| M.F.I (190°C, 5kg load)   | 0.20 to 1.1gm/10 min.   |
| Specified base density    | 940.0 kg/m <sup>3</sup> to 958.0 kg/m <sup>3</sup>                            |
| Material Grade            | PE-63   |
| Carbon Black              | (2.5 ± 0.5%)  |
| Reversion                 | <-3%  |
| Hydraulic Characteristics | No sign of localized swelling, leakage or weeping (at 80°C for 165 & 48 hrs.) |

## Dimension of Polyethylene Pips For Sprinkler Irrigation

All Dimensions In Millimetre

| Nominal Diameter | Nominal tolerance on outside Diameter | Wall Thicknesses |     |           |     |
|------------------|---------------------------------------|------------------|-----|-----------|-----|
|                  |                                       | Class - 1        |     | Class - 2 |     |
|                  |                                       | (0.25Mpa)        |     | (0.32Mpa) |     |
|                  |                                       | Min              | Max | Min       | Max |
| 63               | +0.6                                  |                  |     | 2.0       | 2.4 |
| 75               | +0.7                                  | 2.0              | 2.4 | 2.5       | 2.9 |
| 90               | +0.8                                  | 2.2              | 2.6 | 2.9       | 3.4 |
| 110              | +1                                    | 2.7              | 3.2 | 3.4       | 3.9 |

# HDPE PIPE & COIL SYSTEMS

## HDPE RAW MATERIAL

### Different grade of HDPE and their classifications :

Depending on the minimum required strength HDPE material is classified into the following grades :

The strength, properties of PE-100, 80 & 63

Maximum allowable design stress: M.R.S / C

Where, C = designing factor = 1.25 for water at 20° C.

& = 1.6 for water at 30° C

Maximum allowable design stress is also called design hoop tensile stress.

PE 100 & PE 80 Material is also called Bimodal polyethylene, since normally they are manufactured in two consecutive reactors giving hikes in the molecular weight graph.

This Bimodal polyethylene possess higher molecular strength without decreasing the possibility.

High molecular weight means high density & high crystalline.

### SPECIFICATIONS:

At Baagwan Casting HDPE pipes are manufactured as per following specifications for different applications. IS : 4984 : 2016 For potable water supply. sprinkler pipes for irrigation

### PRODUCT RANGE:

20 mm to 180 mm outer diameter in pressure class 2.5 to 10 kg/cm<sup>2</sup>

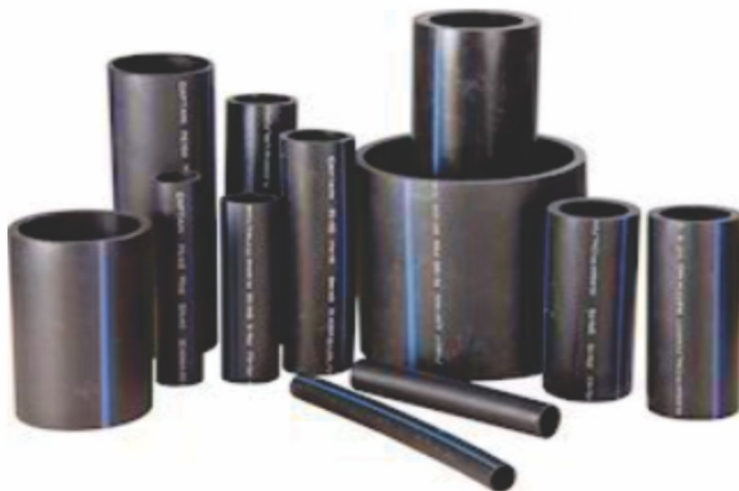
### Our Mission

Baghbaan Vinimay Pvt. Ltd., is growing day by bay to fulfill main farmer.

Our Baagwaan Brand has only one mission to cater our customers best quality products with reasonable price to earn his goodwill. We follow the principle of " Customer Is The King.

### Our Vision

Baghbaan Vinimay Pvt. Ltd., has goal to achieve great milestone in domestic as well as international market. Our Baagwaan Brand want to screen our footprints on all over the world and to be one of the significant global player in drip irrigation industries



## FEATURES :

Resistance to chemicals - Exceptional resistance to all external & internal corrosion.

Resistance to electrolyte corrosion.

Will not rust or rot.

Welded joints speedup installation trench widths reduced which leads to saving in the cost of excavation and back filling.

Smooth bore provide less head loss. Flow resistance is approximately 30% less then that conventional pipe. permitting the use of a smaller bore pipe for a given rate of flow.

High impact Strength .

High reliability and proven service performance.

Greater flexibility, light weight, easy & economical installation.

Very good thermal insulation due to low thermal conductivity.

Flame resistance classify the material as self extinguishing according to test standard employed.

Perfect stability of material obviated the risk of ageing and ensures long service life.

## APPLICATION :

These Pipes are used for water main & services and for water supply over & under ground and, both inside & outside building.

## STANDERD DIMENSION RATIO ( SDR ) AND CORRESPONDING WALL THICKNESS OF PIPE

As Peris: 4984-2016 With Latest Amendment

### All Dimensions In Millimetre

| SDR | SDR-41 | SDR-33 | SDR-26 | SDR-21 | SDR-17 | SDR-13.6 | SDR-11 |
|-----|--------|--------|--------|--------|--------|----------|--------|
|-----|--------|--------|--------|--------|--------|----------|--------|

### Nominal Pressure (PN) Bar

| PE-63  | PN-2   | PN-2.5 | PN-3.2 | PN-4 | PN-5 | PN-6  | PN-8  |
|--------|--------|--------|--------|------|------|-------|-------|
| PE-80  | PN2.5  | PN-3.2 | PN-4   | PN-5 | PN-6 | PN-8  | PN-10 |
| PE-100 | PN-3.2 | PN-4   | PN-5   | PN-6 | PN-8 | PN-10 |       |

### Wall Thicknesses

| Nominal OD |       | W.T. |     | W.T. |     | W.T. |     | W.T. |     | W.T. |      | W.T. |      | W.T. |      |
|------------|-------|------|-----|------|-----|------|-----|------|-----|------|------|------|------|------|------|
| Min        | Max   | Min  | Max | Min  | Max | Min  | Max | Min  | Max | Min  | Max  | Min  | Max  | Min  | Max  |
| 32         | 32.3  |      |     |      |     |      |     |      |     | 1.9  | 2.2  | 2.4  | 2.7  | 2.9  | 3.3  |
| 40         | 40.4  |      |     |      |     |      |     | 1.9  | 2.2 | 2.4  | 2.7  | 3.0  | 3.4  | 3.7  | 4.2  |
| 50         | 50.4  |      |     |      |     | 2.0  | 2.3 | 2.4  | 2.7 | 3.0  | 3.4  | 3.7  | 4.2  | 4.6  | 5.2  |
| 63         | 63.4  |      |     |      |     | 2.5  | 2.9 | 3.0  | 3.4 | 3.7  | 4.2  | 4.7  | 5.3  | 5.8  | 6.5  |
| 75         | 75.5  | 1.9  | 2.2 | 2.3  | 2.6 | 2.9  | 3.3 | 3.6  | 4.1 | 4.5  | 5.1  | 5.6  | 6.3  | 6.9  | 7.7  |
| 90         | 90.6  | 2.2  | 2.5 | 2.8  | 3.2 | 3.5  | 4.0 | 4.3  | 4.8 | 5.3  | 5.9  | 6.7  | 7.5  | 8.2  | 9.1  |
| 110        | 110.7 | 2.7  | 3.1 | 3.4  | 3.8 | 4.3  | 4.8 | 5.9  | 6.6 | 6.5  | 7.3  | 8.1  | 9.0  | 10.0 | 11.1 |
| 125        | 125.8 | 3.1  | 3.5 | 3.8  | 4.3 | 4.8  | 5.4 | 6.0  | 6.7 | 7.4  | 8.2  | 9.2  | 10.2 | 11.4 | 12.7 |
| 140        | 140.9 | 3.5  | 4.0 | 4.3  | 4.8 | 5.4  | 6.0 | 6.7  | 7.5 | 8.3  | 9.2  | 10.3 | 11.4 | 12.8 | 14.2 |
| 160        | 161.0 | 3.9  | 4.4 | 4.9  | 5.5 | 6.2  | 6.9 | 7.7  | 8.6 | 9.5  | 10.6 | 11.8 | 13.1 | 14.6 | 16.2 |
| 180        | 181.1 | 4.4  | 4.9 | 5.5  | 6.2 | 7.0  | 7.8 | 8.6  | 9.6 | 10.6 | 11.8 | 13.3 | 14.7 | 16.4 | 18.1 |

# ONLINE DRIP IRRIGATION SYSTEMS

## COMPOSITION :

The laterals are manufactured from Polyethylene of grade PE 25, antioxidant, carbon black and other additives. Baghbaan Vinimay Private Limited Our **Baagwaan** Brand Casting has introduced Drip Irrigation Systems online laterals resistance cylindrical drippers in 16 mm to 32 mm for efficient irrigation of crops at very low cost and with scarcity of water. These products confirm the Indian Standards as per IS: 12786. 1989 In Integral lateral, the drippers are inserted in the extrusion process at preset distances.

## ONLINE DRIP LATERAL ( IS 12786 :1989):

Available in 12 mm to 32 mm Diameters.

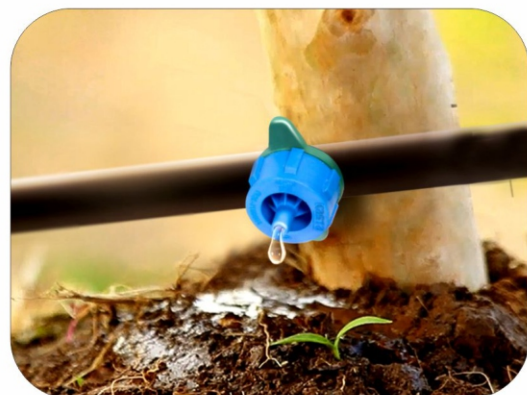
Drip lines are made of high-grade virgin polyethylene, resistant to chemicals and fertilizers used for agriculture.

Suitable for all closed spaced crops, horticulture plants and medicinal plants such as vegetable, Sugarcane, Cotton, Banana, Grapes, Papaya, Strawberry, Mulberry, Floriculture, Safed Musli etc.

## Dimensions of Polyethylene Pips For Irrigation Laterals

All Dimensions In Millimetre

| Outside Diameter | Tolerance on outside Diameter | Wall Thicknesses |     |
|------------------|-------------------------------|------------------|-----|
|                  |                               | Class - 2        |     |
|                  |                               | (0.25Mpa)        |     |
|                  |                               | Min              | Max |
| 12               | +0.2                          | 0.9              | 1.1 |
| 16               | +0.2                          | 1.1              | 1.3 |
| 20               | +0.2                          | 1.2              | 1.4 |
| 25               | +0.3                          | 1.7              | 2.0 |
| 32               | +0.3                          | 2.0              | 2.4 |



## OUR CLIENTELE



## INLINE DRIP IRRIGATION SYSTEM

Baghaan Vinimay Pvt. Ltd. Introduces inline emitting pipe system for better irrigation of plants at very low cost and with scarce of water. This product confirms to Indian Standards as per IS: 13488-2008 This is an integral pipe system (in-built) in which the emitters are inserted in the laterals during 1 the extrusion process at preset distances.

### SALIENT FEATURES

- High clog resistant emitter designed with a unique -wide turbulent flow path
- Large surface inlet screen orifice.
- Two orifice outlets placed 180° apart at each dripper end.
- The additional outlet reduces the suction hazard from sand particles when the laterals are drained.
- Easy to roll and unroll during inter cultivating operations, thus reduces chances of mechanical damage without losing drippers.
- Uniform emission rate along the lateral.
- Available in wide range of emitter spacing from 30 to 60 cms per customer's need.
- Available in Emitting pipe round (cylinder) & Flat

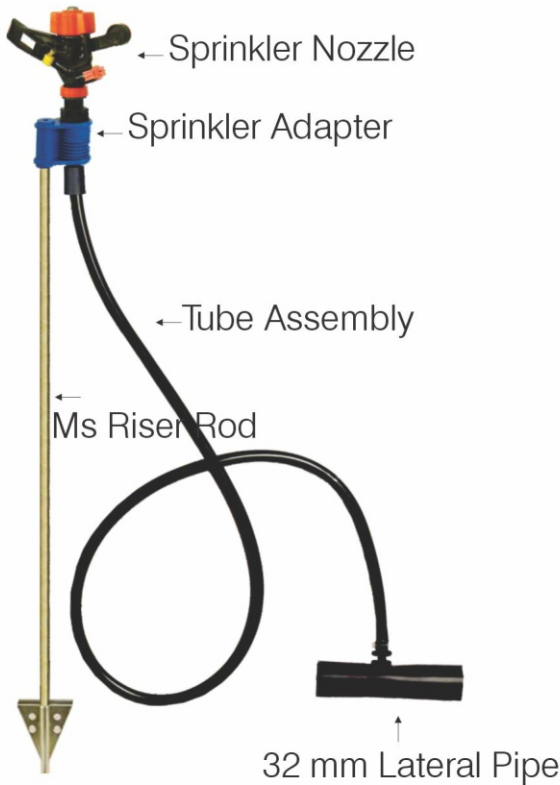
### Dimensions Of Polyethylene Emitting Pips

All Dimensions In Millimeter

| Nominal Diameter | Inside Diameter | Tolerance on inside Diameter | Spacing | LPH | Wall Thicknesses |     |
|------------------|-----------------|------------------------------|---------|-----|------------------|-----|
|                  |                 |                              |         |     | Class - 2        |     |
|                  |                 |                              |         |     | (0.125Mpa)       |     |
|                  |                 |                              |         |     | Min              | Max |
| 12               | 10.5            | +0.20                        | 300-600 | 2&4 | 0.6              | 0.7 |
| 16               | 14.2            | +0.20                        | 300-600 | 2&4 | 0.7              | 0.9 |



# MINI SPRINKLER SYSTEM & COMPRESS FITTINGS



JOINER



M T A



End Cap



Tee Out Side



Service Saddle



BALL VALVE



32 mm Hex - Nipple



32 mm Sockit



Take Off Adapter



Take off Plug



Take Off



PVC Pipe



32 mm Plain Lateral



HDPE Coil Pipe



1/2" male threaded connection and 24° trajectory angle. Body and arm made of engineering plastic for durability with plastic wedge drive spool. Primarily used for irrigation & germination of vegetable Pulses, Mustard, Barley, Wheat Groundnut, nursery crops by overhead irrigation..

# BAAGWAN BRAND PVC PIPES SYSTEM



4985

| PLAIN END/ QUICK FIX |  |
|----------------------|--|
| Product Name         | BAAGWAAN U-PVC PIPE  |
| Range                | Dia : 20mm OD to 200 mm OD,  |
| Standards            | IS : 4985, ISO 4422, DIN 8061/62   |
| Colour               | Grey   |
| Application          | Potable Water Supply, Life Irrigation, Drip / Sprinkler Irrigation, System, Domestic & Industrial Plumbing |



## Wall Thicknes Chart as per ISO 4427

### Standard Dimension Ratio (SDR) and Corresponding Wall Thickness (e) of Pipes Nominal Pressure (PN) Bar

| SDR      | 7.4   | 9     | 11    | 13.6    | 17    | 21   | 26   |
|----------|-------|-------|-------|---------|-------|------|------|
| SERIES S | 3.2   | 4     | 5     | 6.3     | 8     | 10   | 12.5 |
| PE 63    |       |       | PN 10 | PN 8    |       | PN 5 | PN 4 |
| PE 80    | PN 20 | PN 16 | 12.5  | PN 10   | PN 8  | PN 6 | PN 5 |
| PE 100   | PN 25 | PN 20 | 16    | PN 12.5 | PN 10 | PN 8 | PN 6 |

### WALL THICKNESS

| OD<br>dn, mm | Tolerance<br>mm | eMin.<br>mm | eMax<br>mm | eMin.<br>mm | eMax<br>mm | eMin.<br>mm | eMax<br>mm | eMin.<br>mm | eMax<br>mm | eMin.<br>mm | eMax<br>mm | eMin.<br>mm | eMax<br>mm | eMin.<br>mm | eMax<br>mm |
|--------------|-----------------|-------------|------------|-------------|------------|-------------|------------|-------------|------------|-------------|------------|-------------|------------|-------------|------------|
| 16           | 0.3             | 2.3         | 2.7        | 2.0         | 2.3        | .           | .          | .           | .          | .           | .          | .           | .          | .           | .          |
| 20           | 0.3             | 3.0         | 3.4        | 2.3         | 2.7        | 2.0         | 2.3        | .           | .          | .           | .          | .           | .          | .           | .          |
| 25           | 0.3             | 3.5         | 4.0        | 3.0         | 3.4        | 2.3         | 2.7        | 2.0         | 2.3        | .           | .          | .           | .          | .           | .          |
| 32           | 0.3             | 4.4         | 5.0        | 3.6         | 4.1        | 3.0         | 3.4        | 2.4         | 2.8        | 2.0         | 2.3        | .           | .          | .           | .          |
| 40           | 0.4             | 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             | 6.9         | 7.7        | 5.6         | 6.3        | 4.6         | 5.2        | 3.7         | 4.2        | 3.0         | 3.4        | 2.4         | 2.8        | 2.0         | 2.3        |
| 63           | 0.6             | 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             | 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             | 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         | 4.0        |
| 110          | 1               | 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             | 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             | 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             | 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             | 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             | 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        |

# Baagwaan Mulching Film

BAAGWAAN Mulch Films are manufactured with advanced three layered films in embossed and non-embossed patterns that provide extra strength & stress-free field lay-on. These mulch films are an excellent solution to reduce rapid weed growth, pest and insect infestation which are a major concern for farmers.

Baghbaan's Mulch Films have special reflective property that repels insects and prevents temperature variations in the soil. The black side is opaque and eliminates weeds growth with light unavailability. We have supplied Mulch Film to our customers.

## Features

- 100% Virgin Polymer UV Stabilized
- Keeps Soil Intact Post Fumigation
- Bi Colored Mulch Films Reduce Soil Compaction
- Reflective & Embossed for Extra Strength. Non Embossed Variant also
- Available Maintains a Balance in Soil Temperature
- Reduces Fertilizer Leaching

## Specifications

- Thickness: 20 microns to 100 microns
- Width: 750mm to 1200mm
- Length: 400 meters to 800 meters
- Film Color: Transparent, Black, Silver-black, Black-white



# Drip Irrigation Accessories

Irrigation water contains impurities such as sand, pebbles, silt, and decaying organic materials. While all these elements cannot be completely removed – usage of the correct irrigation filter can ensure that water becomes clean enough for our irrigation needs. The correct filter is a critical component that can protect components, extend life, lower maintenance, and reduce wear and tear in order to ensure optimum performance of your irrigation system.

**Head Unit**

Labels in diagram: PRESSURE GAUGE, VALVE, AIR RELEASE VALVE, DISC & SCREEN FILTER, Venturi, Header Assembly, HYDROCYCLONE FILTER.

**Hydrocyclone Filter MS**

**Hydrocyclone Filter Plastic**

**Sand Filter**

**Disc Filter**

**Non Return Valve**

**Flange Valve**

**Screen Filter**

**Venturi With Assembly**

**Air Release Valve**

**Pressure Gauge**

# HDPE GEOMEMBRANE POND SHEET & POND LINING PRODUCT

Geomembrane Made by using High Strength Crush weave technology by adding Carbon Black, Additives and proprietary SUN BOND Co-extrusion Coating which represents the future in pond lining technology.

**HDPE Pond Lining Can Mainly Be Used In Agriculture, Construction, Fishing Industries.**

## Features :

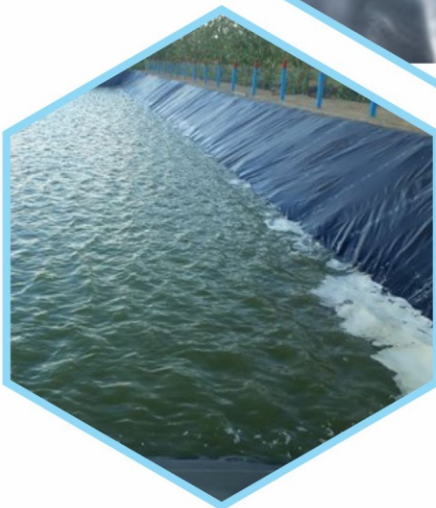
- Withstand Severe Temperature Variations
- Withstand prolonged ozone exposure to sunlight
- Puncture / tear resistant
- Higher strength, durable and strong tenacity
- Environment friendly
- Smooth texture & perfect finish
- Easy to install

## Available GSM:

- Above 220 GSM To 1000 GSM
  - Circular Loom Fabric
  - Soldier Loom Fabric Specialist
- Size Wirth 6 to 12 ft  
Without Joint

## HDPE Pond's Lining Can be used for

1. Farms
2. Waste Ponds
3. Store Water
4. Fire Fighting
5. Irrigation
6. Decorative Ponds at farm Houses & Golf Course





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