

Oasis Irrigation Equipment Co Ltd.

P-6, Scheme-VI M(S), C.I.T, Kolkata700 054,
Phone-033- 32591970, Telefax: 033-2364-8812

Email: oasi_821509@bsnl.in / info@oasisirrigation.in

Website: www.oasisirrigation.in

Oasis Product Profile

Field we Deal in:

1. HDPE Flow Irrigation System- Over ground / underground
2. Mini Sprinkler Irrigation System
3. HDPE Sprinkler Irrigation System
4. HDPE Rain Gun Irrigation System
5. Micro Irrigation System
6. Drip Irrigation System
7. Mist Sprayer with & without anti Drip
8. Filtration System
9. Ventury System
10. Underground Pop up sprinkler
11. Shade Net House
12. Poly green House
13. Dust Suppression System
14. Vermi Bed

1. HDPE Flow Irrigation System- Over ground / underground



HDPE Pipes - made from finest grade raw material mixed with Carbon Black for U.V. resistance properties are robust, durable and can be put in use for conveying the liquid laying under / over the ground. For permanent installation they can be joined by simple Butt Welding process. Pipes in different pressure ratings are available with various types of factory fitted couplers such as Quick Coupler, for portable use, Grove Clamp Coupler and Flange Coupler which can easily be installed at site for semi permanent / permanent installation. Various types of fittings are also available to suit site condition.

2. Mini Sprinkler Irrigation System



Micro Sprinklers

Mini Sprinkler Irrigation System is used for spraying low volume of water on small / medium size area, suitable for permanent / semi permanent installation. Usually sprinklers with ½" connection size are used for it. Since its wetted diameter is small, the water requirement under this system is not much, even small diameter PVC / PE pipe can be used as Main and Lateral. Use of small diameter Poly Pipes for main, sub main and Riser makes this system cost effective. Use of filtration System is optional. Most suited for small and marginal farmer for irrigating field crops like Potato, Onion, Garlic, Cauliflower, Cabbage, Ground Nut, Mustard and Flowers etc. and many more horticulture crops.

3. Portable Sprinkler Irrigation System



Suitable for Spraying Medium Volume of water on a medium size area. This system is widely used in our country. Medium volume sprinkler discharging 9 to 80 LPM depending upon operating pressure, are generally used in this system. The system is used for general agricultural & horticultural crops and also for poultry shed cooling, log wetting and RCC curing purpose.

4. Rain Gun Sprinkler Irrigation System



It is used for spraying high volume of water over large wetting area. Available in 25 mm to 65 mm inlet sizes discharge of 20 LPM to 660 LPM both for full & part circle operations. Working pressure ranging from 1.5 Kg/cm² - 6 Kg/cm². It is most suitable for Tea, Coffee, Sugarcane plantation, industrial and dust suppression purposes. Rain Gun Sprinkler components are made of Die Cast Aluminium, Gunmetal, Stainless Steel and Engineering Plastic for precision operation and durability.

5. **Micro-Irrigation System:**



It ensures highest water and fertilizer use efficiency after Drip Irrigation System. Available in different models for flow rates, coverage area and wetting pattern. Operates on low working pressure. Range of coverage and application rate suitable for all types of horticulture crops for both open and protected cultivation i.e. Green / Shade House. Made from high grade engineering plastic for trouble free working and long life. Available in many models to suit different site conditions. Easy to operate. Saves time, power and labor.

6. **Drip Irrigation System:**



It ensures highest water use efficiency in comparison to any of the irrigation systems. Under this system water is applied drop by drop near the root zone through the net work of pipe line It ensures proper control over moisture and fertilizer resulting in better yield and higher profit . Most suitable for row vegetable crops like strawberry, sugarcane Plantation and fruit bearing trees such as Papaya, Banana, Mango litchis, Guava, Orange, Lemon etc. and floriculture . Components are made of high grade engineering plastic. Simple to operate, saves time, power and labour. Sturdy and durable.

7. **Mist Sprayer with & without anti Drip:**

The system is used for creating high humidity and for propagation of plants under protected environment. Highly effective system spraying droplet size below 150 micros to create humidity to drop down temperature. Widely used for Horticulture and Floriculture under protected environment i.e. Poly Green House components and made of Engineering Plastic for accuracy and durability.

8. **Filtration System:**



The efficiency of Irrigation system depends mainly on effectiveness of filtration system. Various types of filters such as Hydrocyclone Filter, Media Filter and Screen Filter etc. are required for filtration of water containing different types of foreign material. Hydrocyclone Filter, Media Filter and Screen Filters are available in steel body duly protected with anti rust chemical coating in wide range for managing low to high volume of irrigation water. Screen filters are also available with Engineering Plastic body which is very easy to install and needs very low maintenance.

9. **Ventury / Fertilizer applicator:**



Used for injecting water soluble Fertilizer in required small dose in Irrigation system without any extra labor and other cost. Very useful as proper & timely distribution of fertilizer not only cuts fertilizer cost but also ensures higher and better quality yield resulting in higher profit. It is used with manifold. All the components of Ventury and Manifold are made of engineering plastic which ensures trouble free operation over a long period.

10. **Under Ground Pop Up Sprinkler**



Suitable for underground concealed installation for irrigation of Lawns, Turf, Racecourse, Sports Ground, Golf course, etc. Available in various Models for different Flow rates, coverage area and wetting pattern. Connection size depends upon model. Requires swing joint to connect with under ground pipe line.

11. **Shade Net House**



Under it the structure is covered with poly net to reduce the intensity of sun light, and U.V. rays, safeguard the plants from insects, wind etc.

12. **Poly Green House**



Under Controlled Micro Climatic condition, optimum result, productivity and in turn higher profitability can be ensured. Polygreen house provides controlled climatic condition inside the structure claded with multi layer U.V. resistant Poly sheet. Different types of poly green house such as with naturally ventilation system, fan Pad cooling system and others are in use deepening upon the requirement of the crop. Oasis offers tailor made shade net house, Poly green House, Mist House etc. for a wide range of crop for Polygreen house. Multilayer U.V. Resistant Poly sheets are used for cladding on a heavy duty hot deep galvanized tubular structure. The poly sheets in secured with the structure by heavy duty aluminum channel and locked by Zigzag Springs.

Horticulture under protected climatic condition in a call of the time. Optimum result and productivity is possible even on small area and under unfavorable growing condition. Depending upon requirement the selection and use of proper structure and cladding material ensures proper aeration, temperature, humidity-moisture level needed for proper growth of the plants.

13. Dust Suppression

POLLUTION CONTROL

DRY FOG / AIR MIST / AIR ATOMIZING NOZZLES



End Connection: Water 3/8" BSP (F) - Air 1/4" BSP (F)
M.O.C: Brass
Application: Atomized water droplets, blown by air dampens dust particles and precipitates them. System requires clean air and water for proper functioning.
Water Pressure: 1 - 3 Kg / cm²
Water Volume: 1 - 2 LPM
Air Pressure: 4 - 5 Kg / cm²
Air Volume: 300 - 330 LPM

For One Nozzle



DRY FOG SYSTEM



Dry Fog System consist of air atomizing nozzles fitted in steel header along with hose & flow control ball valves and Pressure gauges. Each header consists of

1. Dry Fog / Air Mist Nozzle (1 For single header, 2 for double header, 3 for triple header)
2. SS 304 pipes (1/2" Nominal Bore)
3. MS Clamps
4. Pressure Gauges
5. Ball Valves
6. Connecting Rubber Hose to connect nozzle with air line
7. Brass manifold to fit gauge and ball valve



Principle: Water and Air are mixed internally to provide a fine fog. This fog gives a film of water coating on ultra fine dust particles, thus increasing their weight, and subsequently precipitating them. Each spray can be adjusted by air and water pressure changes to control spray / water density and throw of mist spray.

Our range of dust suppression system, dry fog dust suppression system and mist dust suppression system is used for removing the dust particles from the atmosphere. These work with the help of atomizing nozzles, fitted in a series and produce a hollow cone spray pattern. The systems have a specific operation mode that enables it to operate in an efficient manner.

14. Vermi Bed



Vermi culture is process or technology of artificially cultivating or rearing earthworms for getting their byproduct called Vermicompost and this process of producing Vermicompost is called Vermicomposting. The main instrument used to complete Vermicomposting is known as Vermicomposting Bed. These units do not require costly inputs and the raw material is easily available to the villagers, as every household almost keeps a few domestic animals. In addition to farm waste and agriculture waste can also be used as raw material along with the manure.