

**Letter**

No/PMKSY/regn./Hort-4/ 705 /2016  
Commissionerate of Agriculture.  
KrishiBhavan, shivajinagar,  
Pune-411005, Dt. 2 August 2016.

To,

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**Subject:** 6 Online registration of Drip & Sprinkler manufacturers for the year 2016-17.

Centrally Sponsored Scheme on Micro irrigation is being implemented under Pradhan Mantri Krushi Sinchayee Yojana (PMKSY) in the year 2016-17. Micro irrigation Manufacturers are required to submit online registration form for implementation of the scheme in the year 2016-17.

The online registration is mandatory for all manufacturers. You are requested to submit online filled registration Forms along with following documents for registration.

1. The online registration process will start from 03/08/2016 & the last date for Online submission of online application for Drip/Sprinkler Registration is 18 August 2016 up to 5.00pm
2. Online Registration application will not be accepted in any condition after 18/08/2016.
3. Incomplete online application form will not be accepted for online registration.
4. Registration Fee of Rs.50,000/- (Rupees fifty thousand only) (which are non refundable ) is to paid through online payment system at the time of online registration.
5. The manufacturer shall furnish a Bank Guarantee, of Rs.2,00,000/- (Rupees Two lakhs only) for drip and Rs.1,00,000/- (Rupees one lakhs only) for sprinkler separately valid for a minimum period of three years.
6. This registration will be valid for 3 years. Commissionerate of Agriculture reserves the right of cancellation of registration, Blacklisting manufacturerø if manufacturer found violating the guidelines, indulge in mal practices, supply of substandard material, etc.,
7. In order to avoid rush on last day of submission manufacturers are advised to submit application before time in advance.

All detailed terms and conditions, registration forms are enclosed herewith. You are requested to visit e-thibak portal on [www.mahaagri.gov.in](http://www.mahaagri.gov.in) website for detail information as well as for online application submission.

Sd/-  
**Director, Horticulture,**  
Commissionerate of Agriculture,  
Maharashtra State, Pune-5.

**GOVERNMENT OF MAHARASHTRA  
(Department of Agriculture)**

No/Hort-4/Reg /MI comp/ PMKSY.2016-17/705 /2016  
Commissionerate of Agriculture Maharashtra State,  
Pune-411005 Date- 2 / 8 /2016

**REGISTRATION DOCUMENT**

**Sub:- Online registration of Drip Irrigation & Sprinkler manufacturers under Centrally Sponsored Scheme (CSS) on Micro Irrigation (MI), Pradhan Mantri Krishi Sinchayee Yojana (PMKSY)....**

Online applications are invited from Drip irrigation & Sprinkler irrigation system manufacturers for registration to install Drip/ Sprinkler System in the farmers field (Both Agriculture and Horticulture Crops) in all over the state under Micro Irrigation program of Pradhan Mantri Krishi Sinchayee Yojana (PMKSY) . Centrally sponsored Scheme for 3 year. The registration will be restricted for the schemes implemented by Agriculture department. It will be for the year 2016 -17 to 2018-19. The Commissioner of Agriculture /Director of Horticulture/ State Level Micro Irrigation Committee (SMIC) reserves the right to extend or restrict the time period if it deems fit.

**The last date for submitting the filled registration forms on online ([www.mahaagri.gov.in](http://www.mahaagri.gov.in)) is 18-08-2016 within 05.00 pm. The terms and conditions are as follows.**

**Terms and conditions:**

**1. Manufacturers Qualification**

- 1.1 Only those manufacturing companies which have all the facilities to ensure the quality of product as per BIS standard and who can provide prompt after sales services will be registered.
- 1.2 While registering, the manufactures should declare the technical details of the components proposed to be manufactured and supplied.
- 1.3 In the case of drip irrigation, the company must manufacture atleast laterals and emitting devices as specified conforming to BIS standards. In case of Sprinkler Irrigation, the company should manufacture HDPE/ PVC pipes/ Nozzles and other required equipment as per Bureau of Indian Standards (BIS) specifications.
- 1.4 In case any component is obtained from another manufacturer the offer should be accompanied with the authority letter & BIS License of manufacturer for this component
- 1.5 The company must provide free after-sales service to the farmers for at least three years. Moreover, they should set up service centers in their service area atleast at district level for providing technological and agronomic support at the grass-root level.
- 1.6 The companies shall supply only BIS approved and marked material.
- 1.7 In case the company intends to supply imported components, they should have prior approval of Department of Agriculture and Co-operation (DAC) Government of India subject to indigenize the manufacturing of component within a period of two years. In case of imported equipments, the required acceptance will be provided by National Committee on Plastics Application in Horticulture (NCPAH) after proper examination and verification and submission of report to DAC for approval. Letter of such approval should be submitted at the time of registration.
- 1.8 The manufacturer should have a minimum business turnover of Rs.50.00 lakhs per annum for last three consecutive years in case of small scale industry located in Maharashtra and of Rs. 500.00 lakhs per annum for last three consecutive years in case of others. Original

copy of statement of accounts duly signed by the chartered accountant to be uploaded on online. However, for the companies who are registering for the first time these limits will be applicable for last year's turnover.

- 1.8.1 The manufacturer shall furnish a bank Guarantee, of Rs. 2,00,000/- (Rs. Two lakhs only) for drip and Rs. 1,00,000/- (Rs. One lakhs only) for sprinkler separately valid for a minimum period of three years.
- 1.9 Registration fee of Rs.50000/- (Rupees Fifty thousand only) (which are non refundable) is to be paid through Government Receipt Accounting System (GRAS) which is online payment system. Receipt head for the same is as under-
- Demand No.- D1  
0401-Crop Husbandry  
800- Other Receipts  
(01)(012) Other Items  
(040110455)
- The manufacturer shall furnish the renewal fee of Rs. 25000/- (Twenty five thousands only) per year, through online payment system for the registration period.
- 1.10 Any ISI/BIS certificates expiring during the registration period should be renewed and furnished within 60 days from the date of expiry. Meanwhile, the manufacturer should submit the proof of application submitted for renewal within 45 days. If the material installed by the manufacturer does not meet the BIS/ ISI standards or if the material is of bad quality on the basis of test report from CIPET, the Commissioner of Agriculture/Director of Horticulture is empowered to initiate suitable action against the manufacturer.
- 1.11 The registration will be valid for the three year (2016-17 to 2018-19). However, the Commissioner of Agriculture /Director of Horticulture /SMIC reserves the right to restrict/extend the period of registration with or without assigning any reason.
- 1.12 Normally the registration will be for entire state as area of operation. If a company/manufacturer has limited number of qualified persons and other resources he can restrict his area of operation accordingly.

## **2. The Manufacturer/ Company's roles and responsibilities**

- 2.1 The manufactures will have to compulsorily engrave/emboss Batch No., class, brand, O.D., C.M.L.No. on the pipes supplied under subsidy scheme.
- 2.2 The registered company may have its own pricing system. However, the company would be required to upload the same on “*Thibak, in manufacturers field, step procedure for MRP*” at the beginning of the year and as and when the prices are revised by the Manufactures.
- 2.3 The manufactures should have network for providing after sales service in their areas of operation. Operation and Maintenance of the system, though simple, requires training for maintenance, fertigation, chemigation etc. in the initial stage. Therefore the manufacturers, should provide detailed operational and maintenance manuals in the vernacular language at the time of installation of the system.
- 2.4 It shall assess the crop water requirement as per the crop for which the system is to be provided.
- 2.5 It shall design the system as per the crop water requirement, water availability, soil type, field conditions etc.,
- 2.6 The material should be supplied directly by the manufacturers or through their authorized distributors/ dealers. In all cases, the manufacturers/dealers should authenticate the bills and designs .

- 2.7 The registered company or authorized dealers will be responsible for installation of the efficient Micro Irrigation system in the farmers field and is not restricted to just supply of materials. Therefore the company and their dealers shall not sell their materials without providing design and installation services. In case there is sale of any extra Micro Irrigation materials or for purpose other than subsidy they shall mention clearly in their bill of sales that the material is "not for subsidy" purpose.
- 2.8 The manufacturer/company themselves or through their dealers should assist the beneficiary in submitting bills and relevant documents etc. to the IA for the purpose of obtaining assistance under the scheme.
- 2.9 The manufacturer should have sales service network in their area of operation which facilitates for easy design preparation, installation and demonstration of drip/sprinkler irrigation in order to educate the farmers
- 2.10 In the event of any instrument / component getting broken or damaged during installation and trial run at the site before handing over the system to the customer farmer MIS Supplier shall replace the same free of cost.
- 2.11 Free after sales services should be provided by the manufacturer / authorized distributor at least for three years. If any system manufacturer fails to provide such free service, appropriate action will be taken against them, including and not limited to forfeiting of bank guarantee and blacklisting.
- 2.12 The manufacturer should take the responsibility for any disputes arising from the supply of their product through their distributors or dealers.
- 2.13 MIS Supplier will have to train the Customer farmers for running of MIS and its maintenance so that the system can be operated by the farmer trouble free.
- 2.14 Manufacturer must provide **"user manual"**, **"Fertigation schedule"** and **orientation training** regarding operation and maintenance of Drip /Sprinkler equipments to the farmers.
- 2.15 The warranty/guarantee for the components / equipment used in MIS shall be atleast three years from the date of handing over the MI system to the farmer by the MIS supplier. If any equipment / component is found to have manufacturing defect or poor workmanship within the warranty period, they shall repair/replace the same free of cost within five days of intimation and if repairs are required, it shall also be carried out by company within the aforesaid time period of five days at companies cost without any demur or dispute.
- 2.16 Due to normal wear and tear, if any parts / components require repairing / replacement during the period of 3 years from the date of acceptance of MI System by the farmer, the MIS supplier will supply the same at the price fixed by the company and recover the cost from the farmer.
- 2.17 Manufactures should submit details of quarterly statement of sale with each authorized dealers to Director of Horticulture, Maharashtra ,Pune.
- 2.18 The SLMIC/Commissioner of Agriculture //Director of Horticulture/ IAs are free to take strong punitive measures including and not limited to forfeiting of bank guarantee/blacklisting against erring companies as well as against their dealers/suppliers, in order to safeguard the interests of farmers and to ensure effective utilization of public funds.

### 3. Quality Control

- 3.1 The crucial aspect of supply of micro irrigation system is the quality of the hardware delivered to the farmer. Poor quality have an adverse impact on performance of the system which may affect yield of the crop, quantity of water applied, quantity of fertilizer delivered to the plant etc. It may also increase energy consumption. In fact, sub standard system will not only adversely impact performance, but could also reduce the durability and the life of the components and / or system, hence the company should supply quality materials only.

- 3.2 Frequent surveillance by inspection teams comprising officials from State Department of Agriculture, DAC & FW, GoI, National Committee on Plasticulture Application in Horticulture NCPAH/ Precision Farming Development Center (PFDC), Central Institute of Plastics Engineering & Technology (CIPET), Irrigation Association of India (IAI), BIS and Technical Support Group (TSG) will be taken up. The random samples will be drawn and checked. At the time of inspection, the system should be fully functional.
- 3.3 In case of detection of failures or supply of poor sub-standard quality material, the concerned manufacturer will be issued warning for the first offence. In case of subsequent offences, the Company will be deregistered and restricted from participating in the MI Scheme throughout the country in addition to invoking of bank guarantee. In addition the manufacturer has to replace the defective materials.
- 3.4 In case of any dispute in quality the aggrieved may appeal to the district level officer, and then to the Director of Horticulture/Commissioner of Agriculture. The decision of Director of Horticulture/ Commissioner of Agriculture will be final in this regard.
- 3.5 In order to ensure supply of BIS quality materials to the farmers, the manufacturers, who are registered to participate in MI scheme, should manufacture only such components which have BIS certification. It will be the responsibility of the Irrigation Association of India (IAI) to promote the quality assurance mechanism by registering only such manufacturers who give an undertaking to this effect, as Members of IAI.
- 3.6 The representatives of the State Agriculture department, implementing agency, SLMIC will have authority to inspect any manufacturing unit, godowns of manufacturers, distributors and dealers and to draw samples and test the materials. Any defects found will lead to disqualification of that manufacturing company/dealers.
- 3.7 Registration of the System manufacturers will be done by the Commissionerate of Agriculture on behalf of SMIC. Only those Manufacturing Companies which have all the facilities to ensure the quality of product as per BIS standards and who can provide prompt after sales services will be registered. Companies who wish to participate in Scheme implementation of MI should either manufacture all the major drip components within their factory or in collaboration with specialized manufacturers. While registering, the manufacturers should declare the technical details of the components proposed to be manufactured and supplied. However in any case they should not be below BIS standards.
- 3.8 For judging the quality performance of the company, the company should submit the information of samples taken, samples analyzed, samples passed / not as per BIS etc. at least for last three years
- 3.9 The SLMIC/Commissioner of Agriculture /Director of Horticulture/IA are free to deny registration on basis of quality performance of the manufacturer in order to supply quality material and safeguard the interest of farming community.

#### **4. Norms for Registration**

- 4.1 The manufacturers can register for Drip /Sprinkler or both Irrigation must apply separately.
- 4.2 The on line registration form should be duly filled and submitted along with required attested copies by the person authorized .
- 4.3 The registered manufacturer should submit Rs.2,00,000/- (Rs. Two lakhs only) for Drip and Rs. 1,00,000/- (Rs. One lakhs only) for Sprinkler component as Security Deposit in the form of Bank Guarantee in favour of the Commissioner of Agriculture, Maharashtra state and copy of same should be uploaded online to the registration . The Bank Guarantee shall have validity of minimum of 3 years. Also submit Bank Guarantee in original format to Director Horticulture office.
- 4.4 The registered manufacturer should pay non refundable registration fee of Rs.50,000/- for Drip irrigation system / Sprinkler system/ both systems, through online payment system for registration and Rs.25000/- per year for renewal of registration.

- 4.5 Manufacturer will supply and install equipment conforming to BIS marked materials only. Valid ISI/BIS certificates for drip equipments should be uploaded online. Any ISI/BIS certificates expiring during the registration period should be renewed and furnished within 60 days from the date of expiry.
- 4.6 Company should clearly declare the component wise different parameters which will be tested in CIPET to determine the quality of the products.
- 4.7 If the material installed by the manufacturer does not meet the BIS/ ISI standards or if the materials is of bad quality on the basis of test report from CIPET or any authorized institution, the Commissiner of Agriculture / Director of Horticulture or person authorized by him is empowered to initiate suitable action against the manufacturer including and not limited to forfeiting of bank guarantee/ blacklisting.
- 4.8 If the manufacturer desires to supply certain imported equipments they should obtain prior permission from the Department of Agriculture and Co-operation, GOI. They should produce and enclose copies of suitable records such as the license to market, license to import etc.,
- 4.9 MIS Suppliers are responsible to provide warranty/ guaranty of the MI Components for atleast three (3) years.
- 4.10 The State Level Committee on Micro Irrigation/ Commissiner of Agriculture/ Director of Horticulture /IA shall have the right to examine the standards of Drip /Sprinkler equipments for taking further decision.
- 4.11 The dealers appointed by manufacturer for supply of drip/sprinkler equipments should not have been blacklisted before by any Govt., Department. Blacklisted person should not do the drip/sprinkler installation work in the government subsidy scheme by making use of other names for registration.If it is noticed in future, such registered manufacturer/ dealer will be blacklisted.
- 4.12 The manufacturer and their approved dealers should invariably possess required tax registration certificates and pan card.
- 4.13 Manufacturer should abide to the periodical inspection and report on working of drip/sprinkler system installed. They should follow the instructions given by Government officers/IA.
- 4.14 Manufacturer should submit the list of authorized dealers, along with their detail address , telephone number,email,fax etc. and required area of operation in the registration format.
- 4.15 In case of any default committed by the manufacturer, the Security Deposit submitted by them will be forfeited to the Government and the company will be blacklisted. For any lapse by the authorized persons from the company, the company is liable for penalty and further legal action including and not limited to forfeiting of bank guarantee/ blacklisting.
- 4.16 The successful manufacturer shall execute an agreement with Government of Maharashtra represented by Commissioner of Agriculture to abide by the terms and conditions of the registration on Rs.100/- (Rupees One hundred only) Judicial stamp paper.

## **5. Legal Jurisdiction:**

Arbitration charges if any to be negotiated by Commossioner of Agriculture,Pune. For any legal remedies, the court at Pune shall only have the Jurisdiction.

1. **Name of Applicant Company**

2. **Address :**

S.N.	Office	Address	District	State	Telephone No.	Fax	e-mail	Website
A	Offices							
	1. Corporate Office							
	2.Regional Office							
	3.Branch Office							
B	Factory							
C	Godown							

3. **Name of the Managing Director / Chairman /Director/CEO/Any equivalent Authority**

Name	Post held	Address	Address	Phone Number	Mobile	Fax	e-mail
		Residence					
		Offices					

4. **Manufacturing unit and License Details**

a) **Category of company**

Micro	Small Scale	Medium	Large

b) **Manufacturing License**

License No.	Issuing Authority	Date of license	★ Attach certificate

5. **VAT Registration Number (TIN Number)**

M.V.A.T.R.C./TIN No.		C.S.T.R.C./TIN No.		PAN Number	★ Attach certificates
No.	Registration Date	No.	Registration Date		

6. **Turn over during past three years**

Year	Turn Over (Rs.in.cr.)	★ Attach Statement of account for last three years duly certified by Chartered Accountant

7. **Experience in installation of MI System in Maharashtra/India**

No. of Years	Area covered under MI for the past three years ( Ha)		
	Drip	Sprinkler	Total

8. **Details of Bank Guarantee**

S.N.	Amount(Rs.)	BG No.	Date of Purchase	Date of Expiry	Name of the Bank	Branch	★ Attach copy of BG
1							
2							

**Note:** submit Bank Guarantee in original format to Director Horticulture office.

9. **Details of Registration Fee paid through online system.**

**Note:** submit Challen in original format to Director Horticulture office and also upload it on software

10. **Details of District wise service centers available in Maharashtra**

No. districts where service centers opened	Total service centers

* Upload statement in following proforma					
Sr. No.	Name of District	Name & Address	Details of Service Centre In charge		
			Name	Qualification	Phone No,

11. **Details of District wise Authorized Dealers**

No. districts having Authorized Dealers	Total Authorized Dealers

* Upload statement in following proforma						
Sr. No.	Name of District	Name of Dealer's Firm	Address	Jurisdiction	Phone No,	TIN / VAT No.

12. **Quality Performance (At least last three years)**

Sr. No.	Year	No. of samples taken (all put together)	No. of samples analysed	No. of samples passed	No. of samples not as per BIS

13. **Name (s) of Technical Personnel authorized for Quality control matters**

Sr. No.	Name	Post Held	Qualification	Experience (in years)	Contact No.
1					

14. **List of the districts for which registration is required.**

Sr. No	Name of District	Yes/No
1.	Thane	
2.	Palghar	
3.	Raigad	
4.	Ratnagiri	
5.	Sindhudurg	
6.	Nashik	
7.	Dhule	
8.	Nandurbar	
9.	Jalgaon	
10.	A.nagar	
11.	Pune	
12.	Solapur	

Sr. No.	Name of District	Yes/No
13	Sangli	
14	Satara	
15	Kolhapur	
16	A.bad	
17	Jalna	
18	Beed	
19	Latur	
20	Osmanabad	
21	Nanded	
22	Parbhani	
23	Hingoli	

Sr. No.	Name of District	Yes/No
24	Amrawati	
25	Buldhana	
26	Akola	
27	Washim	
28	Ywatmal	
29	Nagpur	
30	Wardha	
31	Chandrapur	
32	Bhandara	
33	Gondia	
34	Gadchiroli	

15. **Kind of MI system for which Registration is requested.**

MI System	Yes/No
Drip Irrigation Systems	
Sprinkler Irrigation Systems	



## A. DRIP IRRIGATION SYSTEMS

### A) Components

#### i. Pipes (Give details for PVC & HDPE)

S.N.	Type	Size in mm (OD)	Class	BIS No.	CM/L No.	Validity Date	Operating pressure kg/cm <sup>2</sup>
1	Main						
2	Sub-main line						

#### ii. Laterals

S.N.	Type	Size in mm (OD)	Class	BIS No.	CM/L No.	Validity Date	* Attach duly attested copies of the BIS certificate. (validity up to 31.3.2017 )
1	Online						
2	Inline PC Inline Non PC						

#### iii. Emitters

S. N.	Type	Discharge rate LPH	BIS No	CM/L No	Validity date	Pressure rating as per production Kg/Cm <sup>2</sup>	* Attach duly attested copies of the BIS certificate. (validity up to 31.3.2017 )
1	Dripper PC						
2.	Dripper NPC						
3	Others ( Specify)						

#### iv. Filters

S N	Type of Filter	Size Cu.mt./hr capacity	BIS No	CM/L No	Validity Date	Model & Catalog No.	Nominal Size (Inlet & outlet)	Operating Pressure	Range of recommended flow rate	Product specifications
1	Screen									
2	Disk									
3	Sand									
4	Others Pl.Specify									

\* Attach duly attested copies of the BIS certificate for all types of filters.(validity up to 31.3.2017 )

#### v. Valves

S.N.	Name of Valve	Size in mm	BIS No.	CM/L No.	Validity date	Type	Product Specifications
1	Control						
2	PVC ball						
3	Flush						

#### vi. By pass assembly

By Pass Assembly	Size in mm	Specification as per company production
1	2	3

**vii. Fertigation**

S.N.	Name of item	Size	BIS No	CM/L No	Capacity	Class	Product specifications
1	Fertigation tank/equipment						
2	Complete ventury assembly set.						

**viii. Accessories**

S.N.	Name of Accessories	BIS No	CM/L No.	Product specifications
A. PVC Fitting				
1	TEE			
2	MTA			
3	FTA			
4	Thread end cap			
5	Elbow			
6	Reducer			
7	Plain end cap			
8	Coupler			
9	Union			
10	Service saddle			

B. Drip Fitting				
1	Take Off			
2	St. Connector			
3	End Cap			
4	Grommet			
5	Tee			
6	Elbow			
7	Others Pl. Specify			

**B) List of self manufactured components and their brand names.**

S.N.	Components	Component details	Brand Name
1	Pipe	PVC	
2	Lateral	1. Online 2. Inline PC 3. Inline Non PC	
3	Emitters	1. Dripper: PC 2. Dripper: NPC 3. Micro jet 4. Others Pl. Specify	
4	Filters	1. Screen filter 2. Sand Filter 3. Disk filter 4. Others pl. specify	
5	Valves	1. Control valve 2. PVC ball valve 3. Flush valve 4. Others Pl. specify	

**C) List of components outsourced with BIS marking**

S. N	Name of Component outsourced	Name of supplying manufacture with detailed address	BIS No.	CM/L No.	Validity date	Brand Name	* Upload duly attested copies of the BIS certificate for.. a) Laterals b) Emitters c) Filters (validity up to 31.3.2017 )	* Upload duly attested copy of agreement with supplying manufacturer
1	2	3	4	5	6	7		

**D) Production Details (for year last year)**

S. N.	Components	Total Quantity Produced		Quantity sold in M.S.	Quantity sold in M.S. on subsidy	Source of raw material	Raw material used	
		Unit	Quantity				Unit	Quantity
1	Mains							
2	Sub mains							
3	Laterals							
4	Drippers							
5	Inline							
6	Filters							
7	Others							

**E) Installation of drip sets in the State of Maharashtra during the last three years**

S.N	District	Year	No. of farmers covered	Area in ha.		
				Inline	Online	Total
1	Thane					
2	Palghar					

\*Fill the Information in this field for all districts

**F) Proposed targets for the year .....**

Sr. No.	District	Drip Area in ha.		
		Inline	Online	Total
1	2	3	4	5

**G) Information on R & D facilities available with the company.**

<p>*Upload only one page note on following points</p> <p>a) Research Activities.</p> <p>b) Development activities covering,</p> <ol style="list-style-type: none"> <li>1. Farmer Training</li> <li>2. Seminars</li> <li>3. Visit of farmers to Agri. Polyclinics,SAU</li> <li>4. Any other</li> </ol>
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H) **Quality control facilities.**

S. N.	Components	Test	Test carried daily/ weekly	Register maintained in the lab	Name of Machinery	Capacity	Man power available for quality control		
							Name	Designation	Qualification
1	Lateral	a) Dimension							
		b) Determination of 1. Carbon black content 2. Carbon black dispersion							
		c) Hydraulic characteristic 1. Quality Test 2. Acceptance test							
		d) Reversion test							
		e) Tensile test and elongation							
		f) ESCR test							
2	Emitters	a) Flow path							
		b) Resistance to hydraulic pressure							
		c) Emitters pull out test							
		d) Uniformity of emission test							
		e) Emission rate as a function of inlet pressure							
		f) Determination of emitter exponent.							
3	Emitting Pipe	a) Uniformity emission rate							
		b) Emission rate as a function of inlet pressure.							
		c) Dimensions							
		d) Flow path							
		e) Spacing of emitting unit							
		f) Resistance to hydraulic pressure.							
		g) Resistance to hydraulic pressure at elevated temp.							
		h) Resistance to tension at elevated temp.							
		i) Resistance to pull out test.							
		j) Resistance to ESCR							
		k) Emitting unit exponent							
l) Others pl. specify									

I) **Farmer's complaints received regarding manufacturing defects during last 3 years**

Sr. No.	Financial Year	No. of total complaints	complaints regarding			No. of complaints on which action taken
			Lateral	Emitter	Filter	
1						
2						
3						

J) **Technical specifications for testing samples/ analysis.**

Sr. No.	Component	Technical specifications	Details
1	Lateral	Outside diameter of pipe (mm)	
		Class of pipe	
2	Emitting pipe	Uniformity category	
		Nominal emission rate	
		Inside diameter	
		Wall thickness	
		Range of working pressure	
		Classification	
		Emission rate as a function of inlet pressure.	
		Range of regulation, if any	
		Spacing of emitting units	
		Nominal test pressure	
		Dimension of the smallest flow path in emitter	
3	Emitter	Uniformity category	
		Nominal emission rate	
		Nominal test pressure	
		Range of working pressure	
		Range of regulation, if any	
		Emission rate as a function of inlet pressure.	
		Dimension of the smallest flow path in emitter	

## B. SPRINKLER IRRIGATION SYSTEMS

### A) Components

#### I. Pipes -

S N	Component	BIS No	Class	Wall thickness mm	CM/L No.	Validity Date	Operating pressure kg/cm <sup>2</sup>	* Upload duly attested copies of the BIS certificate. ( validity upto 31.3.2017)
1	HDPE Pipes I. 63 mm II. 75 mm III. 90 mm							
2	Pipe with riser outlet							
3	Riser pipe							

#### II. Sprinkler Nozzle

S.N.	Nozzle Type	Discharge	Area Covered	BIS No.	CM/L No.	Validity Date	*Upload duly attested copies of the BIS certificate. ( validity upto 31.3.2017)

#### III. Accessories

S.N.	Components	Size	CM/L No.	BIS/NTH No.	Validity date
1.	Screwed coupler				
2.	Bend 90°				
3.	Tee				
4.	Pressure gauge				
5.	Service saddle with metallic Battens				
6.	End plug				
7.	Pump connecting nipple				
8.	Reducer				
9.	other				

### B) List of self manufactured components and their brand names

Sr. No.	Component specification	Brand Name
1.	HDPE Pipes with Quick Release Coupler (Pipe of Class II, 3.2 kg/cm <sup>2</sup> , IS:14151 Part I, 63 mm , 6 m long	
2.	HDPE Pipes with Quick Release Coupler (Pipe of Class I, 2.5kg/cm <sup>2</sup> , IS:14151 Part I, 75 mm, 6m long	
3.	HDPE Pipes with Quick Release Coupler (Pipe of Class I, 2.5kg/cm <sup>2</sup> , IS:14151 Part I, 90 mm, 6m long	
4.	QRC HDPE 63 mm, Service Saddle IS:14151 Part II	
5.	QRC HDPE 75 mm, Service Saddle IS:14151 Part II	
6.	QRC HDPE 90 mm, Service Saddle IS:14151 Part II	
7.	GI Riser Pipe ¾+diameter	
8.	Sprinkler Nozzles (1.7 to 2.8kg/cm <sup>2</sup> ) IS:12232 Part I	
9.	QRC HDPE Bend with Coupler 900 (63 mm) IS:14151 Part II	
10.	QRC HDPE Bend with Coupler 900 (75 mm) IS:14151 Part II	
11.	QRC HDPE Bend with Coupler 900 (90 mm) IS:14151 Part II	
12.	QRC HDPE Pump Connecting Nipple, 63 mm, IS:14151 Part II	
13.	QRC HDPE Pump Connecting Nipple, 75 mm, IS:14151 Part II	
14.	QRC HDPE Pump Connecting Nipple, 90 mm, IS:14151 Part II	
15.	QRC HDPE End Plug ,(63 mm) IS:14151 Part II	
16.	QRC HDPE End Plug ,(75 mm) IS:14151 Part II	
17.	QRC HDPE End Plug ,(90 mm) IS:14151 Part II	
18.	QRC HDPE Tee with Coupler,(63 mm) IS:14151 Part II	
19.	QRC HDPE Tee with Coupler,(75 mm) IS:14151 Part II	

20.	QRC HDPE Tee with Coupler,(90 mm) IS:14151 Part II	
21.	Others, specify any	

**C) List of components outsourced with BIS marking**

S. N	Name of Component outsourced	Name of supplying manufacture with detailed address	BIS No.	CM/L No.	Validity date	Brand Name	* Upload duly attested copies of the BIS certificate for... 1.HDPE Pipes 2.Sprinkler Nozzle (validity up to 31.3.2017 )	*Upload duly attested copy of agreement with supplying manufacturer
1	2	3	4	5	6	7		

**D) Production Details** (for year 0 )

S. N.	Components	Total Quantity Produced		Quantity sold in M.S.	Quantity sold in M.S. on subsidy	Source of raw material	Raw material used	
		Unit	Quantity				Unit	Quantity
1.	HDPE Pipes 1. 63 mm 2. 75 mm 3. 90 mm							
2.	Pipe with riser outlet							
3.	Riser pipe							
4.	Screwed coupler							
5.	Bend 90 <sup>0</sup>							
6.	Tee							
7.	Pressure gauge							
8.	Service saddle with metallic Battens							
9.	End plug							
10.	Pump connecting nipple							
11.	Reducer							

**E) Installation of Sprinkler sets in the State of Maharashtra during the last three years**

S.N	District	Year	No. of sets installed	No. of farmers covered	Area (ha) covered	* Fill the Information in this field for all districts
1	Thane					
2	Palghar					

**F) Proposed targets for the year .....**

Sr. No.	District	Proposed Target	
		No. of sets	Area
1	2	3	4

**G) Information on R & D facilities available with the company.**

\*Upload only one page note on following points  
 c) Research Activities.  
 d) Development activities covering,  
 5. Farmers Training  
 6. Seminars  
 7. Visit of farmers to Agri. Polyclinics,SAU  
 8. Any other

**H) Quality control facilities.**

S. N.	Name of machinery/ Instrument in the lab.	Make & No	Used for which test	Capacity	Register maintained in lab.	Man power available for quality control		
						Name	Designation	Qualification
1	2	3	4	5	6	7	8	9

**I) Farmer's complaints received regarding manufacturing defects during last 3 years**

Sr. No.	Financial Year	No. of total complaints	complaints regarding			No. of complaints on which action taken
			HDPE Pipes	QRC HDPE components	Sprinkler Nozzle	
1						
2						
3						

**J) Technical specifications for testing samples/ analysis.**

Sl.No.	Specification	60 mm	75 mm	90 mm
1	Nominal outside diameter(mm)			
2	Ovality (mm)			
3	Class of Pipe			
4	Wall thickness, mini/ maxi (mm)			
5	Grade of Polyethylene			
6	MFI of the material (gm/10min)			
7	Density of the material (kg/m <sup>3</sup> )			
8	Carbon black content			
9	Dispersion			
10	Use of rework material (%)			
11	Hydraulic Characteristics			
12	Tensile Strength at yield			
13	Elongation at break			
14	Reversion			
15	Pipe-Jointing & Connections			



### **Declaration by the Manufacturer**

- 1) We have read and understood the Terms and conditions relevant to the Registration and we have agreed for registration in accordance with the Terms and conditions specified.
- 2) We are agreeable for all the Terms and Conditions stipulated now and from Time to Time by Government of India and Government of Maharashtra/SLMIC/Commissioner of Agriculture.
- 3) We are agreeable to follow strictly the guidelines issued by the Gol/Commissioner of Agriculture
- 4) We are aware that our registration is liable for cancellation and we will be black listed if we are found violating the guidelines; indulge in mal-practices, supply of substandard material etc.
- 5) We are agreeable to furnish the required report in the prescribed Proforma every month by E-mail to the Director Horticulture, M.S. Pune 5
- 6) We are agreeable to take the actions such as cancellation of registration, punitive measures and further any legal action against dealers if he indulges in Malpractices and ensure that the dealers adhere to the guidelines and also render prompt service to the farmers.
- 7) We are aware that an agreement with Commissioner of Agriculture has been done by the undersigned within 15 days of registration for the year 2016-17, failing which the registration will stand terminated without any notice.
- 8) We are agreeable to keep batch wise record of all items of Micro-irrigation system and also make mention of batch No. /lot No. in each and every supply bill, so that traceability of material supplied to any farmer will be possible.
- 9) We are aware that price policy after the date of decision, taken by the SMIC, TSG & Registering Authority will be bound on us.
- 10) We are agreeable to test batch wise samples of each and every component produced/outsourced by us and also maintain up to date record of sample tested.
- 11) We are agreeable to test raw material used for our products and also maintain up to date record of the same.
- 12) The information furnished in the Registration Form is true and based on Facts and we understand that our Application is liable for rejection if any information is found to be False and not correct at any point of Time.

**Place:**

**Date:**

**Seal and Signature of the Manufacturer**