

E TENDER NOTICE

**FOR DISCOVERY OF MICRO IRRIGATION SYSTEM
COMPONENTS PRICE
AND
FOR SELECTION AND NEW REGISTRATION OF MICRO
IRRIGATION SYSTEM MANUFACTURERS
UNDER PER DROP MORE CROP (MICRO IRRIGATION)
COMPONENT OF PMKSY IN ASSAM, 2022-23 to 2026-27**

E TENDER: NO HORT. FP./132/ PMKSY/ Co. Reg./2021-22/7



**DIRECTORATE OF HORTICULTURE & FOOD PROCESSING
ASSAM, KHANAPARA, GUWAHATI-781022
E mail: directorhortiassam@gmail.com**

No. Hort. FP./132/ PMKSY/ Co. Reg./2021-22/7

Date: 25/03/2022

E TENDER NOTICE

The Director of Horticulture & F.P., Assam invites “on line tenders “(e-tendering) for “Selection and New Registration of Manufacturing Companies of Micro Irrigation Systems and Discovery of Micro Irrigation System Components Price under PMKSY Scheme to be implemented during 2022-2026. Interested Bidders who are not yet registered as MIS Manufacturing Company under the PMKSY Scheme implemented by DHFP in the state as on date of this Tender, and the earlier registered MIS Manufacturing companies whose terms of registration will be over by March 2022, may apply with Micro Irrigation components price and register as MIS manufacturing Company as per the terms and condition specified in the tender document.

Tender Papers & Specifications may be down loaded from website <https://assamtenders.gov.in> (For view, down load and on line submission) and DHFP’s website dirhorti.assam.gov.in (For view & down load only). Offer / Bid is required to be submitted by online mode only (i.e. under preliminary, technical and price bid stage of online) **on or before 18/04/2022 up to 5.00 PM** along with documents (as mentioned in Part B of Technical Bid) to be submitted physically in sealed Main cover containing separate covers for “Tender fee and Performance Security cover” and “Technical Bid documents cover” by Registered Post A.D. or Speed Post OR HAND DELIVERY addressed to the Director, Directorate of Horticulture & Food Processing, Assam, Khanapara, Guwahati-781022 with a covering letter signed by authorized person of company with seal on or before **20/04/2022 up to 2.00 PM.**



Director of Horticulture & Food Processing
Assam, Khanapara, Guwahati-22

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1. E-TENDER NOTICE

1.1 BACK GROUND :

Directorate of Horticulture & Food Processing (DHFP), Department of Agriculture, Govt. of Assam is the implementing agency of Micro Irrigation component of Per Drop More Crop under Pradhan Mantri Krishi Sinchayee Yojana (PMKSY) in the state. The new guideline with component-wise revised indicative prices has been published by GOI on 8th October 2021. Accordingly, the Directorate intends to finalize the vendor-wise rates as well as Assam Govt. rates of Micro Irrigation (MI) components for the year 2022-23 so that the same may be incorporated in the State MI portal for the benefit of farmers and other stake holders.

. In view of above, DHFP has decided to discover the prices of Micro Irrigation (MI) components through E- Tender from the Registered Micro Irrigation System Manufacturers of DHFP and from the Micro Irrigation System Manufactures who are not yet registered with DHFP as well as intend to register new and old MI system manufacturers of DHFP for the next 5 year term effective from 2022-23 to 2026-27. It is to be mentioned that out of present 3 (three) nos. registered MI companies, 5 years validity of 2 (two) Nos. will end during 2021-22, and they may also apply for fresh registration for the next 5 year term effective from 2022-23 to 2026-27. The other registered MI Company will complete 4 years during 2021-22 and may also apply for fresh registration with the condition that they will be eligible for relaxation of 1/5th of the Registration money which will be adjusted from previous Registration money deposit in order to make the registration process uniform for all the MI companies (fresh as well as earlier registered). In other words, all the present registered MI companies as well as new companies will apply for new registration for 2022-23 to 2026-27, however their price list will be applicable for rate finalization during 2022-23 or as and when the e-Tender process is completed.

1.2 INVITATION OF ONLINE TENDERS:

The Director of Horticulture & F.P., Assam invites “on line tenders “(e-tendering) for “Selection and New Registration of Manufacturing Companies of Micro Irrigation Systems and Discovery of Micro Irrigation System Components Price under PMKSY Scheme to be implemented from 2022-23 onwards until revised. In case Bidder is not yet registered as MIS Manufacturing Company under the PMKSY Scheme implemented by DHFP in the state as on date of this Tender, then he has to apply and register as MIS manufacturing Company as per the terms and condition specified in this tender document. The bidder who wants to be registered as MIS manufacturing company may submit his bid. Subsequently after completion of bidding process, the bidder will get registration as MIS manufacturing Company subject to meeting laid down norms and procedure of registration as specified in tender document and approval of SLSC, Assam under PMKSY. The bidder will have to submit self attested/notarized copy of documents as specified in this tender document.

Tender Papers & Specifications may be down loaded from website <https://assamtenders.gov.in> (For view, down load and on line submission) and DHFP's website dirhorti.assam.gov.in (For view & down load only). Offer / Bid is required to be submitted by online mode only (i.e. under preliminary, technical and price bid stage of online) along with documents (as mentioned in Part B of Technical Bid) to be submitted physically in sealed Main cover containing separate covers for "Tender fee cover" and "Technical Bid documents cover" separately by Registered Post A.D. or Speed Post OR HAND DELIVERY addressed to the Director, Directorate of Horticulture & Food Processing, Assam, Khanapara, Guwahati-781022 with a covering letter signed by authorized person of company with seal.

Sr. No.	Description	
1	Tender Notice No. : Hort. FP./132/ PMKSY/ Co. Reg./2021-22/7	
2	INVITATION FOR E TENDER FOR DISCOVERY OF MICRO IRRIGATION SYSTEM COMPONENTS PRICE AND FOR SELECTION AND REGISTRATION OF MICRO IRRIGATION SYSTEM MANUFACTURERS UNDER PER DROP MORE CROP (MICRO IRRIGATION) COMPONENT OF PMKSY IN ASSAM, 2022-23 to 2026-27	
3	Tender Fee in Rs. (non refundable). Applicable to all MIS manufacturing companies applying for new registration (Rs 1000/- for Drip and Rs 1000/ for Sprinkler)	2000/- (1000/- if applied for only one component , either Drip or Sprinkler)
4	Date of Tender Advertisement	27/03/2022
5	Date of Opening of Tender for download at website https://assamtenders.gov.in	28/03/2022 at 10.00 AM
6	Date, Time and Venue for Pre Bid meeting	07 /04/2022 at 11:30 AM , Conference Hall
7	Last date for online submission of Preliminary, Technical and Price bid	18/04/2022 up to 5.00 PM
8	Physical submission of "Tender Documents" (by Registered post A.D. or Speed Post OR Hand Delivery only)	20/04/2022 up to 2.00 PM
9	Date of Opening of Preliminary and Technical Bid	20/04/2022
10	Date of Opening of Price Bid	To be notified later

PART-A (General Terms and Conditions)

2.0 ELIGIBILITY CRITERIA FOR PARTICIPATION IN E-TENDER FOR DISCOVERY OF MIS COMPONENTS PRICE

2.1 FOR REGISTERED MIS MANUFACTURING COMPANIES UNDER THE PMKSY (MI) SCHEME IMPLEMENTED BY DHFP IN THE STATE AS ON DATE OF THIS TENDER AND INTERESTED FOR NEW REGISTRATION FOR THE NEXT 5 YEAR TERM EFFECTIVE FROM 2022-23 to 2026-27.

- i. Bidders must be registered MIS manufacturing Company of DHFP as on date of tender and interested to apply for new registration for the next 5 year term effective from 2022-23 as per the terms and condition mentioned in **Technical Bid (part-B)** of this tender document.
- ii. Bidders who are going to complete continuously 5th year of 5 year term during 2021-22.
- iii. Bidders who are going to complete continuously 4th year of 5 year term during 2021-22. (eligible for relaxation of 1/5th of registration fees).
- iv. The bidder MIS manufacturing Company should not have been black listed or de-registered by DHFP due to non-performance/ irregularities.
- v. These bidders will be considered to be qualified in Technical Evaluation provided that they submit all the required documents fresh as mentioned in Technical Bid (part-II).

2.2 FOR BIDDERS WHO ARE NOT REGISTERED WITH DHFP BUT INTERESTED TO GET REGISTERED AS NEW MIS Manufacturing Company UNDER PMKSY (MI) SCHEME IMPLEMENTED BY DHFP IN THE STATE FOR THE 5 YEAR TERM EFFECTIVE FROM 2022-23 to 2026-27.

- i. The interested bidders have to apply for registration as MIS Manufacturing Company under the PMKSY (MI) scheme implemented by DHFP in the state as per the terms and condition mentioned in Technical Bid (part-B) of this tender document.
- ii. The registration of MIS manufacturing companies will be subject to assessment of their products quality, experience in installation, technical manpower, service centers etc.
- iii. The price bid of all eligible bidders will be opened in due time and considered for rate calculation however they will be allowed to work under PMKSY(MI) scheme only from 2022-23 onwards after approval of SLSC and completion of formal registration observing all procedures.
- iv. The bidders who are found not eligible as per the criteria for registration of MIS manufacturing Company given in the Part-B (Technical Bid) of this tender would be disqualified and Price bid from such bidders will not be opened by DHFP.

3.0 IMPORTANT INSTRUCTIONS TO THE BIDDER FOR FILLING THE TENDER

Tender should be submitted in two bids system.

3.1 Preliminary Bid documents of tender are to be submitted in physical form as well as online mode (scan copy). The bidder has to submit the Non Refundable Rs 2,000/- (Rs 1000/- for Drip and Rs 1000/- for Sprinkler) as Tender processing fees inside the "Tender Fees Cover" in physical mode as well as in online mode of submission (scan copy) within the due date of tender . The Tender Fees should be submitted in the forms of Demand Draft in favour of Director of Horticulture & F.P., Assam, Khanapara, Guwahati-22, payable at Guwahati.

3.2 Technical Bid documents of tender are to be submitted in physical form as well as Online mode(scan copy) in "Technical Bid documents cover" as mentioned in part-B of this tender as follows.

A. FOR BIDDERS WHO ARE INTERESTED TO REGISTER AS NEW MIS MANUFACTURING COMPANY UNDER PMKSY (MI) SCHEME IMPLEMENTED BY DHFP IN THE STATE AS ON DATE OF THIS TENDER.

Those MIS manufacturing Companies who are interested to register under the PMKSY (MI) scheme implemented by DHFP have to submit all documents as per check list and declaration form (Annexure-IA) under Part B (Technical Bid) in "Technical Bid documents cover" as well as upload the scan copy of documents in online bid as mentioned in Technical Bid of this tender document. However, the bidders may upload additional documents, brochures, technical / other information etc, if they desire to give with the bid.

B. FOR BIDDERS WHO ARE REGISTERED MIS SUPPLIER UNDER PMKSY (MI) SCHEME IMPLEMENTED BY DHFP IN THE STATE AS ON DATE OF THIS TENDER.

Those MIS manufacturing Companies who are already registered under PMKSY (MI) scheme implemented by DHFP during 2017-18 to 2021-22 need only to submit the documents as per check list and declaration form (Annexure-IA) under Part B (Technical Bid) and submit it in online as "Technical Bid" as well as in Technical Bid documents cover in physical form.

C. PRICE BID (ONLINE MODE ONLY)

- i. The interested Registered MIS manufacturing Companies as well interested new MIS manufacturing Companies for new registration have to submit the price bid in online mode only. This is mandatory which may please be noted.
- ii. If price bid is submitted in physical form, same will not be accepted and only on-line submitted price bid will be considered for evaluation. The list of MIS components along with the technical specifications is mentioned in Part C (Annexure-IV)-Price Bid document of this tender.
- iii. Those bidders who do not submit the price bids in online mode, will be out rightly rejected by DHFP and shall not be eligible for new registration as MIS manufacturing Companies under the Directorate of Horticulture & F.P., Assam.

- iv. Once price is quoted by bidders in Price Bid it will not be changed under any circumstances.
- v. The price bid of those bidders who are technically qualified shall only be opened.

Please note that the required documents should be invariably uploaded in online / submitted in physically as mentioned in tender. Any tender without required documents is liable to be ignored and the tender may be rejected without entering in to any further correspondence in this regard and no further reference will be made.

4.0 INSTRUCTION FOR E- TENDERING (ONLINE TENDERING TO BIDDERS)

I	Download the documents.
a	Bidders willing to participate in tender will have to get themselves registered on website https:// assamtenders.gov.in
II	Digital Signature
a	Bidders should have valid digital certificate as per Information Technology Act 2000 using which they can sign their electronic bids. Bidders can also procure the same from any licensed certifying authority by Govt. of India or agencies mentioned in the website.
b	Bidders who already possess valid Digital certificate need not procure a new digital certificate.
III	On line Submission of Technical and Price Bid
a	Bidders can prepare and edit their offers number of times before tender submission date and time. After tender submission date and time, bidder cannot edit their offer submitted in any case. No written or online request in this regard shall be granted.
b	Bidder shall submit their offer, i.e. Technical Bid as well as price bid in Electronic format on above mentioned website and date shown in tender details before digitally signing the same.
c	Offers submitted without digitally signed will not be accepted.
d	Offers only in physical form will not be open in any case.
IV	General Instructions
a	The Tender fees for on line tender document will not be refunded under any circumstances.
b	Tenders without Tender Fees and which do not fulfill all or any of the conditions or submitted incomplete in any respect will be summarily rejected.
c	Conditional tender shall not be accepted.
d	DHFP reserves the right to reject any or all the tenders mainly for rate calculation, without assigning any reasons thereof.
e	Registration of MI companies will be done not merely qualifying in the Technical and Financial bid but only after final approval from SLSC under PMKSY, Assam and DHFP will not in any way be responsible if SLSC reject the final list partly or fully.

DHFP at its sole discretion may ask additional clarification or information or documents from the bidders who are found to be eligible in main pre-qualification criteria. Any technical questions, information, interpretation of tender and clarifications that may be required pertaining to this enquiry should be placed in the pre bid meeting only. No individual query is allowed. DHFP reserves the right to reject any OR all tenders without assigning any reasons thereof.



Director of Horticulture & F.P.
Assam, Khanapara, Guwahati-22

Help Desk numbers for any kind of support related to e-Procurement:

Local Language Support : 0361 - 223 7144, 223 7188 (9:30 am to 5:30 pm)

(Language: Assamese/Bengali/Hindi/English)

24 x 7 Help Desk Number: 0120-4200462, 0120-4001002, 0120-4001005, 0120-6277787.

International Bidders are requested to prefix 91 as country code.

(Language: Hindi/English)

(BY BIDDERS WHO ARE INTERESTED TO REGISTER AS MIS SUPPLIER (NEW & EXISTING) FOR THE TERM 2022-23 to 2026-27 IN THE DIRECTORATE OF HORTICULTURE & F.P., ASSAM ONLY TO BE SUBMITTED)

PART-B

TECHNICAL BID

FOR

SELECTION AND REGISTRATION OF MICRO IRRIGATION SYSTEMS MANUFACTURERS UNDER MICRO IRRIGATION COMPONENT OF PER DROP MORE CROP, PRADHAN MANTRI KRISHI SINCHAYEE YOJANA (PMKSY) SCHEME IMPLEMENTED BY DIRECTORATE OF HORTICULTURE & F.P, ASSAM, KHANAPARA, GUWAHATI-22 FOR THE TERM 2022-23 TO 2026-27.



**DIRECTORATE OF HORTICULTURE & FOOD PROCESSING
ASSAM, KHANAPARA, GUWAHATI-781022**

E mail: directorhortiassam@gmail.com

REGISTRATION OF MANUFACTURERS OF MICRO IRRIGATION SYSTEM (NEW & EXISTING) FOR SUPPLY AND INSTALLATION ON FARMERS' FIELD UNDER PMKSY (PER DROP MORE CROP) IN ASSAM.

1. Background:

The Directorate of Horticulture & F.P., Assam mainly deals with the production of Fruits, Vegetables, Flowers, Spices, Mushroom, Medicinal and Aromatic plants, Bee Keeping etc. The cultivation of horticulture crops is highly specialized, technical and remunerative venture as compared to traditional crops being grown by the farmers. Irrigation plays a vital role in Agricultural as well as Horticultural productivity. Irrigation in Assam is only about 27.63 % and majority of cultivated area is rainfed. To increase productivity, Govt. is giving more importance to irrigation schemes. Farmers of Assam have also started taking up horticulture crops as a separate viable economic activity. Therefore highly advance technology of Micro Irrigation which is more suited to horticultural crops needs to be popularized in the farmers' field through different Govt. schemes.

Directorate of Horticulture & Food Processing, Department of Agriculture, Govt. of Assam is the implementing agency for Micro Irrigation component of Per Drop More Crop under Pradhan Mantri Krishi Sinchayee Yojana (PMKSY) Scheme in Assam in all the **33 districts (undivided)** of Assam. The district Offices in these districts provides all the extension services in the field of Agriculture and Horticulture. During 2021-22, GOI has given a budget allocation of Rs 80.00 Crore for Per Drop More Crop under PMKSY in Assam out of which 60% is meant for Micro Irrigation and 40% is for Other Intervention.

Objectives for implementation of MIS in the State:-

- I. To improve water use efficiency and thereby higher harvest of crop per unit of water.
- II. To improve energy use efficiency in agriculture sector.
- III. To improve crop productivity, increase farmers' income and consequent improvement of their life standard.
- IV. Training of farmers for scientific agriculture through better water management.

3. Scope of work of MIS Supplier:-

1. MIS manufacturers or its Distributor/Dealer will supply and install micro irrigation system and provide after sales services to the farmers, train the farmers for maintenance of MIS and undertake maintenance of MIS for 3 years, shall create the demand of MI System.
2. Preparation of tailor made MIS design based on plot size, topography of land, distance from source of water, well data collection, rainfall, climatic conditions, soil and water quality, likely

cropping pattern to be adopted by farmer and agronomic practices, harvesting practices etc. of the individual beneficiary farmer. Preparation of techno-economic report for MIS and estimates based on the prices of components / equipments approved by DHFP and undertaking finally installation of MI System on farmers field within the prescribed time limit as approved by DHFP.

3. Commissioning of MIS as per approved design in the farmers' field by the MIS supplier.

4. As Made Map - The supplier will submit, after commissioning of the micro irrigation system, a complete and update "as made design map." Map should include a clear presentation of head control unit, water carrier and distribution system including pipelines, location of valves, junctions and other components etc. Irrigation and Fertigation schedule for the cropping pattern for which MIS is installed should be given to the farmers.

5. MIS supplier shall have to provide technical and agronomical services to the Beneficiary farmers for a period of three years free of cost after commissioning of drip irrigation system. The technical and agronomic services shall broadly include the Following:

AGRONOMICAL SERVICES:

- a) Guidance of introduction of new crop varieties / hybrid seed, tissue culture plants, grafts, etc., planting pattern under drip irrigation.
- b) Micro irrigation – principles and practices and water management. Irrigation schedules for various crops proposed in the project including management of low quality water and variable sources of water and drought management.
- c) Fertigation – methods, fertilizer compatibility, nutrient uptake and Fertigation.
- d) Operation and maintenance of MI system including aspects of filtration and flushing system, flow monitoring system, acidification, chlorination etc.
- e) Hazards, caution, safety aspects and limitations involved in commercial intensive farming.
- f) Arrange professional's visit to the farmers' field and utilize training sessions for interaction with the agricultural input manufacturers, bankers, and insurance company and third party inspection agencies.

TECHNICAL SERVICES

- a) Maintenance and Repairing service of irrigation system for 3 Years from date of commissioning. Cost of fittings during repair is payable by farmer. Replacement of equipments/ components free of cost due to manufacturing defect or poor workmanship during the period of warranty i.e. 3 years.
- b) Preparation and finalization of training module for farmers regarding operation and maintenance of irrigation system including cleaning of water distribution lines (mains, sub-mains and drip lines) acidification, etc. and to provide training in this matter to beneficiary farmers.
- c) Submission of Management information data for MIS crop wise and district wise in the prescribed format and time schedule to DHFP as well as to the Govt. authorities.

d) Setting up of an office in the State and placement of qualified personnel (State In charge) in the State for coordination of all activities related to MI Scheme with DHFP and other stake holders.

e) Signing of a MoU between DHFP and MI Manufacturers upon selection as registered MIS Company.

f) It is obligatory on the part of MIS manufacturers or its Distributor/Dealer to generate the demand for MIS in respective territory through various promotional activities including farmers' meetings, participation in fairs/festivals by putting exhibition, live demonstration of MIS etc and liaison with DHFP/District/ Administration etc. Reporting of such promotional work to DHFP every month will be essential to keep Govt. of Assam informed regularly.

TERMS and CONDITIONS:-

1. The Manufacturing company of MI System in India should have its office / dealer network in Assam.

2. The Company must possess technically skilled persons for M.I. System Installation, Water Requirement Assessment and Assessment of Capacity of Pumps.

3 Registration of micro irrigation system manufacturers shall be done with the approval of SLSC, Assam under PMKSY for a period of five years. The shortlisted companies after approval by SLSC can register at any time round the year. The interested bidder fails to participate due to any reason may apply after due date in plain paper to the DHFP so that he may be informed of the next e-Tender date for registration process if needed subject to field demand with approval of SLSC to enable maximum flexibility and open participation.

4. Only those manufacturing companies, which have all the facilities to ensure supply of quality product as per BIS standards and can provide prompt after sales services will be registered. The registration will be subject to the satisfactory performance of the company as assessed by the state implementing agency and repeated failures will lead to the de-registration by SLSC.

5. The companies willing to participate in the scheme should be manufacturing below mentioned components and own BIS in their name:

6. In the case of drip irrigation, company must manufacture at least laterals and emitting devices as specified conforming to BIS standards. For online drip irrigation systems the company should be manufacturing lateral tubing as well as drippers as per BIS and for inline drip irrigation systems, the company should be a manufacturer of inline emitting pipe.

7. In the case of portable sprinkler irrigation system the company should manufacture either coupled HDPE pipes or sprinklers and should possess respective BIS.

8. In the case of other sprinkler irrigation systems viz. mini, micro, semi-permanent sprinkler systems the company should manufacture either of HDPE/PVC/PE pipes/nozzles and should possess respective BIS.

9. In the case of large volume sprinkler irrigation system (rain gun sprinklers) the company should manufacture HDPE pipes and nozzle and should possess respective BIS.

10. The company must provide guarantee of quality assurance of other components which are not manufactured by them in various technologies covered under the scheme.

11. The company must provide free after sales service to the farmers for three years from the date of installation of system. Moreover, they should set up service centers for providing technological support at the grass root level.

12. The company will supply only BIS marked material. The list of relevant BIS components is given at **Annexure XIV of PMKSY, Per Drop More Crop (MI) guideline of GOI, 2021.**

13. In case the company intends to supply imported components, it should obtain prior approval of DAC&FW subject to indigenize the manufacturing of component within a period of two years. In case of imported equipment, the techno- economic analysis report will be provided by NCPAH after proper examination and verification and submit report to DAC&FW for consideration.

14. The material should be supplied directly by the manufacturer or their authorized distributors /dealers. In all cases, the manufacturer should authenticate the invoices. Such manufacturers shall furnish a Performance Bank Guarantee of Rs 2.00 Lakhs each for Drip and Sprinkler separately valid for the period of registration (required to be submitted at the time of registration).

15. Each company may have its own pricing system. However, the company would be required to submit to the Registering Authority/SLSC, the component wise Price list as **per Annexure-IV** for discovery of uniform Price list for 2021-22, as well as at the beginning of every year as and when the prices are to be revised by DHFP through tender process.

16. The Company will provide GPS reading of each installation along with the design map.

17 After sales services &campaigns

17.1 Operation and Maintenance of the system requires adequate training of beneficiaries for system operation etc. The manufacturers should have required network for providing training and after sales service in their areas of operation. The manufacturers should provide detailed operational and maintenance manual in the local vernacular language at the time of installation of the system. The beneficiaries should be advised to follow the instructions provided by the manufacturers for the operation and maintenance of drip/sprinkler irrigation systems.

17.2 Service centers and / or offices of drip / sprinkler system manufacturers / authorized distributors should have facilities to provide technical guidance on system maintenance schedules, supply spare parts and ensure satisfactory performance of the system during the warranty period.

The manufacturer should also operate a toll free customer care number where beneficiaries can register their complaints. List of service centers/offices/offices of authorized distributors with full address/telephone numbers/e-mail should be widely published.

17.3 After sales service should be provided by the manufacturer/authorized distributor, free of cost for at least a period of three years. The company shall repair or replace any components/instruments of the MI system free of cost within warranty period, if they are found to have manufacturing defects or workmanship defects.

17.4 Due to normal wear and tear, if any parts/components require repairing/replacement, the company shall supply the same and recover the cost from the beneficiary after the free period is over. The company or its authorized representatives shall provide acid/chlorine treatment to drip system once during the first year of operation of the system.

17.5 If any system manufacturer fails to provide such service, the same should be brought to the notice of district level committee and SLSC. The manufacturer would be responsible for any dispute arising from the supply of their product/component directly or through their authorized distributors/dealers. The Implementing Agency/ SLSC of each State shall evolve a process and modus operandi to redress the disputes, if any. In cases where product quality related complaints from beneficiaries are received due sampling process mentioned in the guidelines shall be followed.

17.6 The SLSC may take measures against erring companies or their authorized dealers, as well as their own staff after due hearing in order to safeguard the interests of farmers/beneficiaries and to ensure effective utilization of public funds. However, before initiating any action, principle of natural justice shall be followed.

17.7 There could be extension campaigns by the MI companies at a centralized location having District officials, farmers & other related officials. Various aspects of system maintenance, acid treatment, fertigation etc. could be covered.

17.8 The campaigns by companies should cover all beneficiaries under warranty period & could be as under:

More than 5000 ha area coverage in the state	6 campaigns
1000-5000 ha area coverage in the state	4 campaigns
Less than 1000 ha area coverage in the state	2 campaigns

18. Violations & Penalties

18.1 Implementing Agency shall draw samples through a joint inspection team as per guideline of the scheme wherever it feels necessary and send to laboratory for quality check.

18.2 In case of violations in respect of failure in quality control & quality assurance and to provide maintenance & after sales service, following penalties shall be imposed:

- First time in a year, a warning letter may be issued to the manufacturer instructing to rectify the shortcoming immediately.
- Second time in same year, a warning letter may be issued to the manufacturer instructing to rectify the shortcoming immediately with a penalty of 10% of invoice value.
- Third time in same year, a penalty of 25% of invoice value may be charged.
- Fourth time in same year, a show cause notice may be issued to the company and the case may be refer to SLSC for de-listing the company for a period of one year or more as decided by SLSC.

18.3 The violations with regard to submission of bills without installation/partial installation, wrong invoicing, variations in component specifications, submission of wrong documents with reference to pump/system discharge, improper installation, quoting higher price than approved, deviations from prescribed material specifications etc. may be dealt with by the Implementing Agency suitably apart from initiating suitable action under the relevant sections of Indian penal code and other relevant/appropriate statutory enactments.

19. A non-refundable registration fee of Rs 50,000.00 only will have to be deposited by willing companies. The Company once registered will be valid for 5 years (i.e., upto 31/03/2027 from the date of registration).

20. Registration may be renewed annually by paying a non refundable renewal fee of Rs 5000.00 only for Drip and Sprinkler separately, on satisfactory performance by the Company with renewal of Bank Guarantee, whenever needed.

21. The manufacturers should comply with the criteria provided in the Operational Guidelines of PMKSY (Per Drop More Crop) circulated by Govt. of India, 2021 (kindly refer website www.pmkysy.gov.in) and time to time instructions issued from DHFP, Assam. Any modification or reenactment will be applicable on the manufacturers.

22. The interested Manufacturers will submit their applications for registration under the Centrally Sponsored Scheme on Micro Irrigation under the component “Per Drop More Crop” of Pradhan Mantri Krishi Sinchayee Yojana (PMKSY) **Assam both physically as well as online mode as per instruction given in the tender notice**

23. Companies unable to apply within 18th April, 2022 for want of necessary documents or for any other causes may apply in subsequent tender notice to be advertise in due course subject to field demand and approval of SLSC.

24. The successful M.I. System Manufacturer Companies for registration will be awarded the “Registration Certificate” for the installation of M.I. Systems in Assam under the Centrally Sponsored Scheme on Micro Irrigation under the component “Per Drop More Crop” of Pradhan Mantri Krishi Sinchayee Yojana (PMKSY) only after the approval of the SLSC, Assam

25. **All the Micro Irrigation System Manufacturing Companies qualifying above eligible criteria and willing to follow the terms and conditions should submit** technical bid in sealed Main cover containing separate covers for “Tender fee cover” and “Technical Bid documents cover” as well as in online mode. However, the Price bid should be submitted in online mode only. The technical bid should contain **all the mandatory certificates/papers along with the application and should be in Spiral Binding Form. (Any loose application / document will not be accepted).**

26. All the pages of Tender document must be signed by the authorized person of the Company.

27. TENDER received after due date and time will not be accepted and the offer will be categorically ignored without any further communication to the firm.

28. Incomplete tender will be categorically ignored without any further communication to the firm.

29. DHFP reserves the right to accept or reject any TENDER application and / or to the selection process and reject all TENDER at any point of time without assigning any reason or incurring any liability to the applicant.

Documents to be submitted:

A) Preliminary Bid (both Online and Physical Mode):

1. Application processing fees of Rs 2000/- (Rs 1000.00 each for Drip and Sprinkler) or Rs 1000/- (either for Drip or Sprinkler) in Demand draft drawn in favour of “Director of Horticulture & F.P., Assam, Khanapara, Guwahati-22”.
2. Bank Guarantee for Performance Security of Rs 2.00 Lakh (Rupees Two lakhs) only each for Drip and Sprinkler separately drawn in the name of the Director of Horticulture & F.P., Assam, Khanapara, Guwahati-22” valid from 1st April, 2022 up to 31st March, 2027 .(to be submitted physically at the time of registration only after approval by SLSC).
3. Demand Draft of Rs.50000/- drawn in favour of “Director of Horticulture & F.P., Assam, Khanapara, Guwahati-22” as Registration Fee for all the manufacturing companies except the existing MI company running 4th year of Registration will pay 1/5th less than the total amount.(to be submitted physically only after approval by SLSC).

B) Technical Bid Document (both Online and Physical Mode):

4. Name of the Company with address and contact no. along with Name, Phone, Email of the Authorized Person.
5. Details of MIS components manufactured/outsourced by MIS Supplier as per **Annexure-II**.
6. BIS Certificate of the components manufactured by the company and Certificate on quality assurance of other components not manufactured by the company.
7. Name and address of Office and Dealer Network in Assam.
8. Guarantee of “After Sales Service” to be provided to the farmers.
9. GST Registration Certificate.

10. Company's Permanent Account No. (PAN) Card copy.
11. Account Statement for the last 3 years (2018-19 and 2019-20, 2020-21).
12. Letters of Registration in other States.
13. Self-authenticated Certificate that the Company is not black listed in any other States and in Assam (for existing MI Companies) for any reasons.
14. Other credentials related to installation of the system on farmer's field for the last 3 years with satisfactory report. **(Annexure-III)**.
15. Check List of Document submitted as per attached format **(Annexure-IA or IB)**.

Summary of required documents for submission:

Sl. No.	Folder Name		Documents to be scanned (in single .pdf format for every folder) and upload into the respective Folders:
1	Preliminary Bid Document Folder(for both new and old manufacturer)	i) Tender Fees for New Registration.	Scanned copy of the Treasury Challan/Demand Draft drawn in favour of "Director of Horticulture & F.P, Assam, Khanapara, Guwahati-22" (A) Rs.1000/- for Drip (B) Rs.1000/- for Sprinkler.
2	Technical Bid document Folder (for Bidders who are not already registered with DHFP)	i) Qualification Documents/ Certificates to be submitted and uploaded by Manufacture for 1 st time New Registration	(a)Name of the Company with address and contact no. along with Name, Phone, Email of the Authorized Person. (b) Company Registration Certificate (c) Factory License (d) GST Registration Certificate (e) Company's Permanent Account No. (PAN) Card- Self attested photo copy (f) BIS Certificate of the components manufactured by the Company with validity dates. Details (enclosed the copy as per Annexure-II) (g) Audited Account Statement from CA for the last 3 years (2018-19, 2019-20 and 2020-21). (h) Guarantee on quality assurance of other components not manufactured by the company on company letterhead (i) Assurance for providing 3 years After Sales Service on Company Letterhead (j) Name, address and contact details of Distributor/Dealers /Service Centers /Office in Assam (k) Letters of Registration in other States. (l) Self-attested Certificate that the Company is not black listed as well as no legal proceeding of the company is pending (m) Current Price List of the components of Micro Irrigation System .i.e. valid up to 31st March,2023 as per list at annexure-IV (n) Other credentials related to MI-as per annexure-III
	Technical Bid document Folder	i)Qualification Documents/ Certificates to be	(a) Registration letter issued by DHFP (b) Self-attested Certificate that the Company is not black listed as well as no legal proceeding of the company is

	(for Bidders who are already registered with DHFP)	submitted and uploaded by already Registered Manufacturer.	pending (c)Name, address and contact details of Distributor/Dealers/ Service Centers /Office in Assam (d) Current Price List of the components of Micro Irrigation System .i.e. valid up to 31st March,2023 as per list at annexure-IV
Documents to be submitted at the time of Registration after approval from SLSC under PMKSY for old as well as new Manufacturing companies.			
1	Registration Fees		One time registration fees of Rs 50,000/- for 5 years . (Renewal fees would be applicable from 2 nd year onwards)
1	Performance Security		Bank Guarantee in favour of "Director of Horticulture & F.P, Assam, Khanapara, Guwahati-22" (A)Rs.2,00,000/- for Drip and (B)Rs.2,00,000/- for Sprinkler

Failure of submission of any of the above mentioned documents will render the tender liable to be summarily rejected for both statutory & non statutory cover.



Director of Horticulture & F.P.
Assam, Khanapara, Guwahati-22

(Draft of Covering Letter)

No.....

Date.....

To : The Director of Horticulture & F.P.
Assam, Khanapara, Guwahati-781022

Sub : For selection and registration of Micro Irrigation System Manufacturer under
Per Drop More Crop (Micro Irrigation) , Pradhan Mantri Krishi Sinchayee Yojana
(PMKSY) scheme, 2022-23 to 2026-27 regarding.

Ref : No. Hort.FP./132/PMKSY/Co. Reg/2021-22/7 Date. 25/03/2022

Sir,

We have received "Tender Documents" through downloading from the website mentioned in the notice. We have gone through the business module, scope of work, selection criteria for short listing and general terms and conditions, and all are acceptable to us.

Considering this, we are forwarding all details in the enclosed Annexure I (A / B) , II, III and IV for your consideration.

The application processing fees of Rs. 2000*/-(Rs 1000/- each for Drip and Sprinkler) or Rs 1000*/- (only for Drip/ Sprinkler*) by Demand Draft No. _____ date _____ drawn in favour of "Director of Horticulture & F.P., Assam, Khanapara, Guwahati-22".payable at Guwahati in favour of "Director of Horticulture & F.P., Assam, Khanapara, Guwahati-22"are enclosed.

(*strike out whichever is not required)

Yours faithfully.

Authorized Signatory of the Company

Annexure-I-A

**CHECK LIST OF DOCUMENTS TO BE SUBMITTED BY MANUFACTURER FOR NEW
REGISTRATION ALONG WITH THE APPLICATION**

Docu ment No.	Particulars	Page No.		For Official Purpose Only
	Registration Applied For (Tick where applicable)			
	Drip irrigation (Tick)			
	Sprinklers (Tick)			
1	Application processing Fees : Demand draft drawn in favour of "Director of Horticulture & F.P., Assam, Khanapara, Guwahati-22" A) Rs 1000/- for Drip and B) Rs 1000/- for Sprinkler		Physical as well as to upload	
2	Name of the Company with address and contact no. along with Name, Phone, Email of the Authorized Person		-do-	
3	Company Registration Certificate		-do-	
4	Factory License		-do-	
5	GST Registration Certificate		-do-	
6	Company's Permanent Account No. (PAN) Card- Self attested photo copy		-do-	
7	BIS Certificate of the components manufactured By the Company with validity dates Details (enclosed the copy as per Annexure-II)		-do-	
8	Audited Account Statement from CA for the last 3 years (2018-19, 2019-20 and 2020-21).		-do-	
9	Guarantee on quality assurance of other components not manufactured by the company on company letter head		-do-	
10	Assurance for providing 3 years After Sales Service on Company Letter head		-do-	
11	Name, address of Distributors/ Dealers/Service Centers /Office in Assam		-do-	
12	Letters of Registration in other States (for all MI companies)		-do-	
13	Self-attested Certificate that the Company is not black listed as well as no legal proceeding of the company is pending		-do-	
14	Current Price List of the components of Micro Irrigation System as per list at Annexure-IV		To Upload only	
15	Other credentials related to MI			
	(Insert rows If required)			

Certified that the information provided as above is true to the best of my knowledge and if found incorrect all my future claims would be forfeited.

Certified that I will produce all the relevant documents in original for verification as and when required by DHFP.

Seal of Organization
Date:
Encl: as above

For and on behalf of
– with Name and Designation of
Authorized Person

Annexure-I-B
CHECK LIST OF DOCUMENTS TO BE SUBMITTED BY MANUFACTURER ALREADY REGISTERED WITH DHFP ALONG WITH THE APPLICATION

Document No.	Particulars	Page No.	Remarks	For official purpose only
	New Registration (2022-23 to 2026-27) Applied For (Tick where applicable)			
	Drip irrigation (Tick)			
	Sprinklers (Tick)			
1	Application processing Fees : Demand draft drawn in favour of "Director of Horticulture & F.P., Assam, Khanapara, Guwahati-22" B) Rs 1000/- for Drip and B) Rs 1000/- for Sprinkler		Physical as well as to upload	
2	Registration letter issued by DHFP		Physical as well as to upload	
3	Self-attested Certificate that the Company is not black listed as well as no legal proceeding of the company is pending		Physical as well as to upload	
4	Name, address and contact details of Distributor/Dealers/ Service Centers /Office in Assam		Physical as well as to upload	
5	Current Price List of the components of Micro Irrigation System as per list at Annexure-IV		To upload only	

Certified that our company is interested to continue PMKSY-PDMC (Micro Irrigation) work of Director of Horticulture & F.P., Assam for another 5 year term w.e.f 2022-23 to 2026-27.

Certified that the information provided as above is true to the best of my knowledge and if found incorrect all my future claims would be forfeited.

Certified that I will produce all the relevant documents in original for verification as and when required by DHFP.

Seal of Organization
Date:
Encl: as above

For and on behalf of

– with Name and Designation
of Authorized Person

PART-C (PRICE BID)
FOR DISCOVERY OF MICRO IRRIGATION SYSTEM
COMPONENTS PRICE, UNDER PER DROP MORE CROP
(MICRO IRRIGATION) COMPONENT OF PMKSY IN ASSAM,
2022-23.



DIRECTORATE OF HORTICULTURE & FOOD PROCESSING
ASSAM, KHANAPARA, GUWAHATI-781022
E mail: directorhortiassam@gmail.com

C. Financial proposal

1. General Instruction:-

- i. The Financial bid will comprise the Bid Form and the Price Schedule as per format given in the bidding document **(Annexure-IV)** .The bidder has to download the given format (“BOQ”, a .xls file) from the respective tender published at <https://assamtenders.gov>, enter rate into the specified cell and upload the same into the folder named “BOQ” on the website <https://assamtenders.gov.in> at the appropriate place.
- ii. Don’t try to rename the file. After entering the rates only save (don’t use “Save as” option) and upload it.

Important: The Price Schedules are to be uploaded only in e-procurement portal; no hard copy of the same is required to be submitted.

2. Discovery of Common Price:-

The Components price list of both old as well as new companies will be taken to evaluate the L1 price for each component. These L1 prices will be finally considered to calculate the Bill of Quantity (BOQ) prices for different specification mentioned in the guideline and termed as State Govt. price

As per rule, Subsidy will be released based on indicative price of the guideline or Company’s own price whichever is less. The additional amount above Indicative Prices will have to be borne by farmers but Companies cannot charge additional amount beyond the State Govt. price discovered through e-Tender process.

TECHNICAL SPECIFICATIONS OF VARIOUS MICRO IRRIGATION COMPONENTS / INSTRUMENTS DESCRIBED IN THE PMKSY (MI) GUIDELINE FOR USED IN NE & H STATES

TENDER NOTICE NO Hort. F.P./132/PMKSY/ Co. Reg /2021-22/7

Price Bid Document (both Online and Physical Mode):

Details of price bid (Price of MI Components) should be submitted online in prescribed format (**Annexure-IV**) as mentioned in tender notice.

Notes:

- The reference standards considered for evolving specifications for components and systems are various Standards of Bureau of Indian Standards and as per PMKSY (MI) guideline of GOI.
- The specifications given here are common minimum requirements expected from all the Manufacturing Companies for implementation of PMKSY (MI) Scheme.
- In order to maintain uniformity in prices among participating Manufacturing Companies and also to ensure correct evaluation of systems the components offered; capacities and sizes of different components have been fixed as per PMKSY (MI) guideline of GOI in the enclosed Specification Sheets.

**TECHNICAL SPECIFICATIONS OF VARIOUS MICRO IRRIGATION COMPONENTS /
INSTRUMENTS DESCRIBE IN THE PMKSY (MI) GUIDELINE FOR USED IN NE & H STATES**

Sl. No.	Item Description	Specification	Text	Units	Amount in Rupees		
					Rate	GST	Total with GST
1	2	3	4	5	6	7	8
	DRIP IRRIGATION SYSTEM						
A	Pipes & Lateral						
1	HDPE Pipe ; 6 kg/cm2 (IS 14151 part II)	40	mm	RM			
2	HDPE Pipe ; 4 kg/cm2 (IS 14151 part II)	50	mm	RM			
3	HDPE Pipe, Class-III ; 4 kg/cm2	50	mm	RM			
4	HDPE Pipe ; 4 kg/cm2 (IS 14151 part II)	63	mm	RM			
5	HDPE Pipe, Class-II ; 4 kg/cm2	63	mm	RM			
6	HDPE Pipe ; 4 kg/cm2 (IS 14151 part II)	75	mm	RM			
7	HDPE Pipe ; 4 kg/cm2 (IS 14151 part II)	90	mm	RM			
8	Lateral, Class II (2.5 kg/cm2)	12	mm	RM			
9	Lateral, Class II (2.5 kg/cm2)	16	mm	RM			
10	Emitting Pipe Class II ;(0.2-0.3 m x 1 to 2-4 lph)	12	mm	RM			
11	Emitting Pipe Class II ;(0.2-0.3 m x 1 to 2-4 lph)	16	mm	RM			
12	Pressure Regulating Emitter/ Dripper	2	lph	Each			
13	Pressure Regulating Emitter/ Dripper	4	lph	Each			
14	Pressure Regulating Emitter/ Dripper	8	lph	Each			
B	Fittings, Head Control Unit and Optional Items						
1	Control valve	40	mm	Each			
2	Control valve	50	mm	Each			
3	Control valve	63	mm	Each			
4	Control valve	75	mm	Each			
5	Control valve	90	mm	Each			
7	Flush valve	50	mm	Each			
8	Flush valve	63	mm	Each			
9	Flush valve	75	mm	Each			
A	Head Control Unit						
10	Screen/Disc. Filter with Inlet & outlet Fittings	10	m3/hr	Each			
11	Screen/Disc. Filter with Inlet & outlet Fittings	20	m3/hr	Each			
12	Screen/Disc. Filter with Inlet & outlet Fittings	25	m3/hr	Each			
12	Screen/Disc. Filter with Inlet & outlet Fittings	30	m3/hr	Each			
13	By-pass Assembly-1.5"x1.5"	1.5"x1.5"		Each			
14	By-pass Assembly- 2.0"	2.0"		Each			
15	By-pass Assembly- 2.0"/2.5"	2.0"/2.5"		Each			
16	Non return valve	1.5"		Each			
17	Non return valve	2.0"		Each			
18	Non return valve	2.5"		Each			
19	Air release valve	1"		Each			
20	Air release valve	1.5"		Each			

21	Throttle Valve - 1.5"	1.5"		Each			
22	Throttle Valve - 2.0"	2.0"		Each			
23	Throttle Valve - 2.0"/2.5"	2.0"/2.5"		Each			
24	Throttle Valve - 1.5"/2.0"	1.5"/2.0"		Each			
25	Throttle Valve -2.5"	2.5"		Each			
26	Ventury with Manifold (1 1/2")	(1 1/2")		Each			
27	Ventury with Manifold (2")	2"		Each			
	Optional Item						
28	Fertilizer Tank	30	Ltr	Each			
29	Fertilizer Tank	60	Ltr	Each			
30	Hydro Cyclone Filter with Inlet & Outlet	20	m3/hr	Each			
31	Hydro Cyclone Filter with Inlet & Outlet	25	m3/hr	Each			
32	Hydro Cyclone Filter with Inlet & Outlet	30	m3/hr	Each			
33	Sand Filter with Inlet & Outlet	10	m3/hr	Each			
34	Sand Filter with Inlet & Outlet	20	m3/hr	Each			
35	Sand Filter with Inlet & Outlet	25	m3/hr	Each			
36	Sand Filter with Inlet & Outlet	30	m3/hr	Each			
37	Drip Line Winder			Each			
	SPRINKLER IRRIGATION SYSTEM						
A	HDPE/PVC/LLDPE pipe						
1	HDPE Pipes with Quick coupled (Pipe of Class 2; 3.2 kg/cm2 IS:14151 Part II, 63 mm diameter & 6 m long)	63	mm	RM			
2	HDPE Pipes with Quick coupled (Pipe of Class 3; 4 kg/cm2 IS:14151 Part II, 63 mm diameter & 6 m long)	63	mm	RM			
3	HDPE Pipes with Quick coupled (Pipe of Class I; 2.5 kg/cm2 IS:14151 Part II,75 mm diameter & 6 m long)	75	mm	RM			
4	HDPE Pipes with Quick coupled (Pipe of Class 3; 4 kg/cm2 IS:14151 Part II, 75 mm diameter & 6 m long)	75	mm	RM			
5	HDPE Pipes with Quick coupled (Pipe of Class I; 2.5 kg/cm2 IS:14151 Part II, 90 mm diameter & 6 m long)	90	mm	RM			
6	HDPE Pipes with Quick coupled (Pipe of Class 3; 4 kg/cm2 IS:14151 Part II, 90 mm diameter & 6 m long)	90	mm	RM			
7	PVC Pipe , class-II; 4 kg/cm2	63	mm	RM			
8	PVC Pipe , class-II; 4 kg/cm2	75	mm	RM			
9	PVC Pipe , class-II; 4 kg/cm2	90	mm	RM			
10	LLDPE plain laterals, 2.5 kg/cm2- Class II	20	mm	RM			
11	LLDPE plain laterals, 2.5 kg/cm2- Class II	32	mm	RM			
12	Lateral , Class II; 2.5 kg/cm2	16	mm	RM			
B	Head Unit Fittings						
1	Control Valve	32	mm	Each			
2	Control Valve	63	mm	Each			
3	Control Valve	75	mm	Each			
4	Control Valve	90	mm	Each			
5	Flush valve	50	mm	Each			
6	Flush valve	63	mm	Each			
7	Flush valve	75	mm	Each			
8	Quick coupled HDPE Foot batten Assembly	63	mm	Each			
9	Quick coupled HDPE Foot batten Assembly	75	mm	Each			

10	Quick coupled HDPE Foot batten Assembly	90	mm	Each			
11	By-pass Assembly	2" x 1.5"		Each			
12	By-pass Assembly	2.5" x 2"		Each			
13	By-pass Assembly	1.5" x 1.5"		Each			
14	Screen Filter with inlet and outlet fittings (20/ 25 m3/hr)	20/ 25	m3/hr	Each			
15	Screen Filter with inlet and outlet fittings	30	m3/hr	Each			
16	Quick coupled HDPE Pump Connecting Nipple ;	63	mm	Each			
17	Quick coupled HDPE Pump Connecting Nipple ;	75	mm	Each			
18	Quick coupled HDPE Pump Connecting Nipple ;	90	mm	Each			
19	Quick coupled HDPE Bend with Coupler 90 degree (63/ 50 mm)	63/ 50	mm	Each			
20	Quick coupled HDPE Bend with Coupler 90 Degree	75	mm	Each			
21	Quick coupled HDPE Bend with Coupler 90 Degree	90	mm	Each			
22	Quick coupled HDPE Tee with Coupler ;	63	mm	Each			
23	Quick coupled HDPE Tee with Coupler ;	75	mm	Each			
24	Quick coupled HDPE Tee with Coupler ;	90	mm	Each			
25	Quick coupled HDPE End Plug ;	63	mm	Each			
26	Quick coupled HDPE End Plug ;	75	mm	Each			
27	Quick coupled HDPE End Plug ;	90	mm	Each			
28	Air Release Valve	1"		Each			
29	Throttle Valve	2"		Each			
30	Throttle Valve	2.5"		Each			
31	Throttle Valve	3"		Each			
32	Ventury with Manifold	2"		Each			
33	Non return valve	2"		Each			
34	Non return valve	2.5"		Each			
C	Sprinkler and Fittings						
35	Sprinkler Nozzles ;IS 12232 Part I Brass	1.7 -2.8	kg/cm2	Each			
36	Micro Sprinkler Set			Each			
37	Mini Sprinkler Head/ Nozzles			Each			
38	Raingun Sprinkler 1.5" female threaded connection			Each			
39	Raingun Sprinkler 1.25" female threaded connection			Each			
40	GI Riser Pipe 3/4" diameter x 75 cm long			Each			
41	MS Riser Rod & assembly			Each			
42	Tripod Stand with adapter to feeder line	1.25" x 1.5"	m	Each			
43	Tripod Stand with adapter to feeder line	1.5" x 1.5"	m	Each			
	Installation cost (whenever applicable)						

Annexure-IV
PART-C (PRICE BID)

List of various MIS components prescribed in the PMKSY (MI) Guideline of GOI for NE & H States

Tender No.: E TENDER: NO HORT. FP./132/ PMKSY/ Co. Reg./2021-22/6

Sl. No.	Item Description	Quantity	Text	Units	Estimated Rate in Rs. P	Quoted Currency in INR / Other Currency	BASIC RATE In Figures To be entered by the Bidder in Rs. P	TOTAL AMOUNT Without Taxes in Rs. P	TOTAL AMOUNT With Taxes	TOTAL AMOUNT In Words
1	2	3	4	5	6	7	8	9	10	11
	DRIP IRRIGATION SYSTEM									
A	Pipes & Lateral									
1	HDPE Pipe ; 6 kg/cm2 (IS 14151 part II)	40	mm	RM		INR				INR Zero Only
2	HDPE Pipe ; 4 kg/cm2 (IS 14151 part II)	50	mm	RM		INR				INR Zero Only
3	HDPE Pipe, Class-III ; 4 kg/cm2	50	mm	RM		INR				INR Zero Only
4	HDPE Pipe ; 4 kg/cm2 (IS 14151 part II)	63	mm	RM		INR				INR Zero Only
5	HDPE Pipe, Class-II ; 4 kg/cm2	63	mm	RM		INR				INR Zero Only
6	HDPE Pipe ; 4 kg/cm2 (IS 14151 part II)	75	mm	RM		INR				INR Zero Only
7	HDPE Pipe ; 4 kg/cm2 (IS 14151 part II)	90	mm	RM		INR				INR Zero Only
8	Lateral, Class II (2.5 kg/cm2)	12	mm	RM		INR				INR Zero Only
9	Lateral, Class II (2.5 kg/cm2)	16	mm	RM		INR				INR Zero Only
10	Emitting Pipe Class II ;(0.2-0.3 m x 1 to 2-4 lph)	12	mm	RM		INR				INR Zero Only
11	Emitting Pipe Class II ;(0.2-0.3 m x 1 to 2-4 lph)	16	mm	RM		INR				INR Zero Only
12	Pressure Regulating Emitter/ Dripper	2	lph	Each		INR				INR Zero Only
13	Pressure Regulating Emitter/ Dripper	4	lph	Each		INR				INR Zero Only
14	Pressure Regulating Emitter/ Dripper	8	lph	Each		INR				INR Zero Only
B	Fittings, Head Control Unit and Optional Items									
1	Control valve	40	mm	Each		INR				INR Zero Only
2	Control valve	50	mm	Each		INR				INR Zero Only
3	Control valve	63	mm	Each		INR				INR Zero Only
4	Control valve	75	mm	Each		INR				INR Zero Only
5	Control valve	90	mm	Each		INR				INR Zero Only
7	Flush valve	50	mm	Each		INR				INR Zero Only
8	Flush valve	63	mm	Each		INR				INR Zero Only
9	Flush valve	75	mm	Each		INR				INR Zero Only
A	Head Control Unit									
10	Screen/Disc. Filter with Inlet & outlet Fittings	10	m3/hr	Each		INR				INR Zero Only
11	Screen/Disc. Filter with Inlet & outlet Fittings	20	m3/hr	Each		INR				INR Zero Only

12	Screen/Disc. Filter with Inlet & outlet Fittings	25	m3/hr	Each		INR				INR Zero Only
12	Screen/Disc. Filter with Inlet & outlet Fittings	30	m3/hr	Each		INR				INR Zero Only
13	By-pass Assembly-1.5"x1.5"	1.5"X1.5"		Each		INR				INR Zero Only
14	By-pass Assembly- 2.0"	2.0"		Each		INR				INR Zero Only
15	By-pass Assembly- 2.0"/2.5"	2.0"/2.5"		Each		INR				INR Zero Only
16	Non return valve	1.5"		Each		INR				INR Zero Only
17	Non return valve	2.0"		Each		INR				INR Zero Only
18	Non return valve	2.5"		Each		INR				INR Zero Only
19	Air release valve	1"		Each		INR				INR Zero Only
20	Air release valve	1.5"		Each		INR				INR Zero Only
21	Throttle Valve - 1.5"	1.5"		Each		INR				INR Zero Only
22	Throttle Valve - 2.0"	2.0"		Each		INR				INR Zero Only
23	Throttle Valve - 2.0"/2.5"	2.0"/2.5"		Each		INR				INR Zero Only
24	Throttle Valve - 1.5"/2.0"	1.5"/2.0"		Each		INR				INR Zero Only
25	Throttle Valve -2.5"	2.5"		Each		INR				INR Zero Only
26	Ventury with Manifold (1 1/2")	(1 1/2")		Each		INR				INR Zero Only
27	Ventury with Manifold (2")	2"		Each		INR				INR Zero Only
	Optional Item									
28	Fertilizer Tank	30	Ltr	Each		INR				INR Zero Only
29	Fertilizer Tank	60	Ltr	Each		INR				INR Zero Only
30	Hydro Cyclone Filter with Inlet & Outlet	20	m3/hr	Each		INR				INR Zero Only
31	Hydro Cyclone Filter with Inlet & Outlet	25	m3/hr	Each		INR				INR Zero Only
32	Hydro Cyclone Filter with Inlet & Outlet	30	m3/hr	Each		INR				INR Zero Only
33	Sand Filter with Inlet & Outlet	10	m3/hr	Each		INR				INR Zero Only
34	Sand Filter with Inlet & Outlet	20	m3/hr	Each		INR				INR Zero Only
35	Sand Filter with Inlet & Outlet	25	m3/hr	Each		INR				INR Zero Only
36	Sand Filter with Inlet & Outlet	30	m3/hr	Each		INR				INR Zero Only
37	Drip Line Winder			Each		INR				INR Zero Only
	SPRINKLER IRRIGATION SYSTEM									
A	HDPE/PVC/LLDPE pipe									
1	HDPE Pipes with Quick coupled (Pipe of Class 2; 3.2 kg/cm2 IS:14151 Part II, 63 mm diameter & 6 m long)	63	mm	RM		INR				INR Zero Only
2	HDPE Pipes with Quick coupled (Pipe of Class 3; 4 kg/cm2 IS:14151 Part II, 63 mm diameter & 6 m long)	63	mm	RM						
3	HDPE Pipes with Quick coupled (Pipe of Class I; 2.5 kg/cm2 IS:14151 Part II, 75 mm diameter & 6 m long)	75	mm	RM		INR				INR Zero Only
4	HDPE Pipes with Quick coupled (Pipe of Class 3; 4 kg/cm2 IS:14151 Part II, 75 mm diameter & 6 m long)	75	mm	RM		INR				INR Zero Only

5	HDPE Pipes with Quick coupled (Pipe of Class I; 2.5 kg/cm2 IS:14151 Part II, 90 mm diameter & 6 m long)	90	mm	RM		INR				INR Zero Only
6	HDPE Pipes with Quick coupled (Pipe of Class 3; 4 kg/cm2 IS:14151 Part II, 90 mm diameter & 6 m long)	90	mm	RM		INR				INR Zero Only
7	PVC Pipe , class-II; 4 kg/cm2	63	mm	RM		INR				INR Zero Only
8	PVC Pipe , class-II; 4 kg/cm2	75	mm	RM		INR				INR Zero Only
9	PVC Pipe , class-II; 4 kg/cm2	90	mm	RM		INR				INR Zero Only
10	LLDPE plain laterals, 2.5 kg/cm2- Class II	20	mm	RM		INR				INR Zero Only
11	LLDPE plain laterals, 2.5 kg/cm2- Class II	32	mm	RM		INR				INR Zero Only
12	Lateral , Class II; 2.5 kg/cm2	16	mm	RM		INR				INR Zero Only
B	Head Unit Fittings									
1	Control Valve	32	mm	Each		INR				
2	Control Valve	63	mm	Each		INR				INR Zero Only
3	Control Valve	75	mm	Each		INR				INR Zero Only
4	Control Valve	90	mm	Each		INR				INR Zero Only
5	Flush valve	50	mm	Each		INR				INR Zero Only
6	Flush valve	63	mm	Each		INR				INR Zero Only
7	Flush valve	75	mm	Each		INR				INR Zero Only
8	Quick coupled HDPE Foot batten Assembly	63	mm	Each		INR				INR Zero Only
9	Quick coupled HDPE Foot batten Assembly	75	mm	Each		INR				INR Zero Only
10	Quick coupled HDPE Foot batten Assembly	90	mm	Each		INR				INR Zero Only
11	By-pass Assembly	2" x 1.5"		Each		INR				INR Zero Only
12	By-pass Assembly	2.5" x 2"		Each		INR				INR Zero Only
13	By-pass Assembly	1.5" x 1.5"		Each		INR				INR Zero Only
14	Screen Filter with inlet and outlet fittings (20/ 25 m3/hr)	20/ 25	m3/hr	Each		INR				INR Zero Only
15	Screen Filter with inlet and outlet fittings	30	m3/hr	Each		INR				INR Zero Only
16	Quick coupled HDPE Pump Connecting Nipple ;	63	mm	Each		INR				INR Zero Only
17	Quick coupled HDPE Pump Connecting Nipple ;	75	mm	Each		INR				INR Zero Only
18	Quick coupled HDPE Pump Connecting Nipple ;	90	mm	Each		INR				INR Zero Only
19	Quick coupled HDPE Bend with Coupler 90 degree (63/ 50 mm)	63/ 50	mm	Each		INR				INR Zero Only
20	Quick coupled HDPE Bend with Coupler 90 Degree	75	mm	Each		INR				INR Zero Only
21	Quick coupled HDPE Bend with Coupler 90 Degree	90	mm	Each		INR				INR Zero Only
22	Quick coupled HDPE Tee with Coupler ;	63	mm	Each		INR				INR Zero Only
23	Quick coupled HDPE Tee with Coupler ;	75	mm	Each		INR				INR Zero Only
24	Quick coupled HDPE Tee with Coupler ;	90	mm	Each		INR				INR Zero Only

25	Quick coupled HDPE End Plug ;	63	mm	Each		INR				INR Zero Only
26	Quick coupled HDPE End Plug ;	75	mm	Each		INR				INR Zero Only
27	Quick coupled HDPE End Plug ;	90	mm	Each		INR				INR Zero Only
28	Air Release Valve	1"		Each		INR				INR Zero Only
29	Throttle Valve	2"		Each		INR				INR Zero Only
30	Throttle Valve	2.5"		Each		INR				INR Zero Only
31	Throttle Valve	3"		Each		INR				INR Zero Only
32	Ventury with Manifold	2"		Each		INR				INR Zero Only
33	Non return valve	2"		Each		INR				INR Zero Only
34	Non return valve	2.5"		Each		INR				INR Zero Only
C	Sprinkler and Fittings									
35	Sprinkler Nozzles ;IS 12232 Part I Brass	1.7 -2.8	kg/cm2	Each		INR				INR Zero Only
36	Micro Sprinkler Set			Each		INR				INR Zero Only
37	Mini Sprinkler Head/ Nozzles			Each		INR				INR Zero Only
38	Raingun Sprinkler 1.5" female threaded connection			Each		INR				INR Zero Only
39	Raingun Sprinkler 1.25" female threaded connection			Each		INR				INR Zero Only
40	GI Riser Pipe 3/4" diameter x 75 cm long			Each		INR				INR Zero Only
41	MS Riser Rod & assembly			Each		INR				INR Zero Only
42	Tripod Stand with adapter to feeder line	1.25" x 1.5"	m	Each		INR				INR Zero Only
43	Tripod Stand with adapter to feeder line	1.5" x 1.5"	m	Each		INR				INR Zero Only
	Installation cost (whenever applicable)			%		INR				INR Zero Only

Seal of Organization

Date:

Encl: as above

For and on behalf of

– with Name and Designation of Authorized Person

List of BIS Standards as mentioned in the PMKSY (MI) guideline (Annexure-XIV)

SN	Component Description	BIS
1	Polyethylene pipes for Irrigation- Laterals with amendment number 6	IS 12786: 1989 (reaffirmed 2009)
2	Irrigation Equipment-Emitters- Specification	IS 13487: 1992 (reaffirmed 2009)
3	Irrigation Equipment-Emitting pipes system- Specification (first revision)	IS 13488: 2008 (reaffirmed 2014)
4	Irrigation Equipment-Strainer type filters Specification (first revision)	IS 12785: 1994 (reaffirmed 2011)
5	Irrigation equipment rotating sprinkler Part I, Design and Operational requirements (1st revision)	IS 12232 (Part I) -1996 (reaffirmed 2011)
6	Irrigation equipment rotating sprinkler Part 2, Test method for uniformity of distribution (1st revision)	S 12232 (Part 2) -1995 (reaffirmed 2011)
7	Fertilizer and Chemicals Injection system Part I Venturi Injector	IS 14483 (Part 1) 1997 (reaffirmed 2009)
8	Irrigation Equipment-Media Filters- Specification	IS 14606: 1998 (reaffirmed 2009)
9	Irrigation Equipment-Hydro cyclone filter- Specification	IS 14743: 1999 (reaffirmed 2009)
10	Unplasticized PVC pipes for portable water supplies-Specification (third revision)	IS 4985 – 2000
11	Irrigation equipment- Sprinkler pipes - Specifications Part II Quick coupled Polyethylene pipes & fittings (second revision)	IS I4151 (part II) 2008 (reaffirmed 2014)
12	High Density Polyethylene Pipes for water supply-Specification (fourth revision)	IS 4984 : 1995 (reaffirmed 2002)
13	Fertilizer & Chemical Injector System- Partjnq 3 Fertilizer Tank	IS:14483 Part 3 - 2016

Director of Horticulture & F.P.
Assam, Khanapara, Guwahati-22