

**BANDA UNIVERSITY OF AGRICULTURE &  
TECHNOLOGY, BANDA (U.P.) 210001**



**Tender No. 15/2018-19 for Installation of  
Drip Irrigation System in Fruit  
Orchard/Forest Plantation Area to be  
Established in BUAT, Banda Campus**

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### **Note:**

All documents uploaded as well as sent in physical form must BEAR PAGE NUMBERS in sequence, including sequential fresh page numbers given on each page of printed/photocopy material. The same page numbers are required to be mentioned in CHECK LIST provided. Please note that only the uploaded documents will be considered for opening of Technical and financial bid. Kindly note that technical bid will be liable to be rejected on technical ground if its fails to submit of required documents physically and financial bid of the company will not be opened without assigning any reason.

## **Chapter 1: Tender Notice – 15/2018-19**

- 1- The bids are invited by e-tender through website [www.etender.up.nic.in](http://www.etender.up.nic.in) & [www.buat.edu.in](http://www.buat.edu.in) from authorized firm/manufacturer/companies for installation of drip irrigation system in fruit orchard/forest plantation area under research & education activities at main campus of Banda University of Agriculture & Technology, Banda. The detail of work items under this tender are given in Chapter 3.

<b>Tender Fee</b>	Rs. 1000/- (Rs. One Thousand Only.)
<b>Period for Bid Document Downloading &amp; Uploading</b>	20/03/2019 from 10:00 hrs
<b>The Last date for online tender submission</b>	28/03/2019 up to 18:00 hrs
<b>Last date for submission of hard copy of tender fee, EMD and other documents by RPAD/Speed-post/by hand.</b>	29/03/2019 up to 12:00 hrs
<b>Bid Validity Period</b>	365 days
<b>Earnest Money Deposit (EMD)</b>	25000/- (Rs. Twenty Five thousand only.)
<b>Technical documents available on</b>	<a href="http://www.etender.up.nic.in">www.etender.up.nic.in</a> & <a href="http://www.buat.edu.in">www.buat.edu.in</a>
<b>Tentative Opening of Technical Bid</b>	29/03/2019 at 14:00 hrs ONWARDS
<b>Tentative Opening of Financial Bid</b>	29/03/2019 at 16:00 hrs ONWARDS

Comptroller  
BUAT, Banda

## **Chapter 2: Instructions to bidders for Online Tender Participation**

- 1- All tender documents can be downloaded from the website <http://etender.up.nic.in> or <http://www.buat.edu.in>
- 2- All bids should be submitted online on the website [http:// etender.up.nic.in](http://etender.up.nic.in)
- 3- The user can get a copy of instructions to online participation from the website [http:// etender.up.nic.in](http://etender.up.nic.in)
- 4- For all queries regarding tender (except item specification) should be addressed to personnel in tendering office address provided below.

### **Comptroller,**

Administrative Building,

Banda University of Agriculture & Technology,

Mawai Buzurg, Banda (Uttar Pradesh) 210001

E-mail: [comptroller.mskjuat@gmail.com](mailto:comptroller.mskjuat@gmail.com)

Phone No.; 05192-232313

5. For queries regarding item specifications contact respective scientist preferably, during office hours as per Chapter-7

### Chapter 3: Detail of Tender Work

<b>Sl. No.</b>	<b>Items</b>	<b>Qty.</b>
1	Installation of Drip Irrigation System in Fruit Orchard/Forest Plantation Area to be Established in BUAT, Banda Campus.	01 Nos.

Comptroller  
BUAT, Banda

## **Chapter 4: Terms and Conditions**

### **1- General Terms & Conditions**

Online tenders are invited on behalf of the “Comptroller, Banda university of Agriculture and Technology, Banda U.P. 210001 Uttar Pradesh State from the reputed original manufacturer firm/construction agency or its sole authorized construction agency. The bid must be strictly as per required specifications and the tender terms & conditions. Financial bid must be submitted online only or otherwise bid will be rejected.

- 1- Banda University of Agriculture & Technology, Banda for Installation of Drip Irrigation System in fruit/forest area (as mentioned in Chapter-3) intend to invite offers for supply and installation at BUAT Banda campus, Banda District of UP state. The scanned copy of the demand draft of the Tender Fee and Earnest Money Deposit (EMD) as well as other relevant documents as per check list of the tender are required to be submitted online with the financial bid on the website [www.etender.up.nic.in](http://www.etender.up.nic.in). It is compulsory to submit the original / attested photocopies of all the required documents (except financial bid), company printed literature/ catalogue and other necessary documents physically in hardcopy to the Office of the Comptroller, Banda University of Agriculture & Technology, Banda on or before 29, February, 2019 up to 12:00 hrs.
- 2- The tender document is available only in an electronic format where the bidder can download it from the BUAT, Banda website <http://www.buat.edu.in>.
- 3- The tender document will not be issued in person or by post.
- 4- The cost of tender document is Rs. 1,000/- which shall be submitted along with Technical Bid.
- 5- Authorized manufacturer firm/supplier or authorized dealer can quote their rates provided they attach a certificate of authorization issued which also must be notarized during current financial year: 2018-19 & 2019-20 from the manufacturer/principal company. Authorized manufacturer firm/supplier representing the same company/instrument are free to compete for price, terms, warranty period etc. In case the vendor is a distributor authorized by an Original Manufacturer, the following documents must be additionally provided:
  - Certificate from Original Manufacturer that the dealership/channel partnership arrangement with the bidder is in force for a minimum of 2 years & extended till the warranty/guarantee period.
  - A letter by the Original Manufacturer stating that they shall honour the supply/ Warranty / AMC commitments independent of continuation of

the dealership/ channel partner arrangement with the authorized construction agency / channel partner.

Irrespective of whether the bidder is an Original Manufacturer or a distributor authorized by the Original Manufacturer, the following eligibility criteria must be fulfilled

- The bidder should have made a positive operating profit.
  - The bidder should not be blacklisted by any State or Central Government and in this regard original affidavit should be attached from the bidder that business entity is not blacklisted.
  - The bidder should be in existence for a minimum period of three years.
- 6- Technical Supporting Documents (TSD) should contain original Tender Fee in the form of Demand Draft in favour of Comptroller, Banda University of Agriculture and Technology, Banda and Earnest Money Deposit (EMD) in form of D.D. (Demand Draft)/FDR (Fixed Deposit Receipt) in favour of Comptroller, Banda University of Agriculture and Technology, Banda, Banda. In addition to these, TSD should also contain the original / photocopy of relevant documents as per checklist of the tender (except financial bid), company literature / catalogue, GST registration certificate or any other relevant document. The technical brochures, bid processing fees (Tender Fee) and EMD should be sealed in three separate labeled envelopes and should be enclosed in one single large envelope. The envelope must be marked as “e-Tender-15/2018-19”: Technical Supporting Documents (Technical bid).
- 7- The financial bid will only be opened after, if technical bid is found complete and qualified. Further, If bidder fails to submit the TSD offline within time limit; the financial bid will be disqualified. Please note that the scanned copy of any document uploaded must be clear & readable and in accordance with the physical submission of original/ attested photocopies.
- 8- The prices shall be inclusive of all (freight, packaging and forwarding, transit insurance, installation charges, AMC, applicable taxes like GST, Custom Duty, Other prevailing taxes/ charges) as per government rules & regulations as well as FOR destination as mentioned in work order. The rate should be quoted per unit as specified.
- 9- The tender supporting documents should contain **(1)** income tax return for last 3 Financial Year & **(2)** Certified turnover certificate by CA for the last 3 financial years i.e., 2015-16 to 2017-18 with minimum turnover of Rs. 1.00 crore in each year. These two documents are compulsory for qualifying the technical bid.

- 10- Only those firms can apply who have PAN Card.
- 11- Only those firms can apply who have GSTIN No./Certificate.
- 12- Amendment of bidding documents (corrigendum)
  - a) At any time prior to the deadline for submission of bids, BUAT may, for any reason, whether its own initiative or in response to the clarification request by a prospective bidder, modify the bidding documents.
  - b) The corrigendum will be published on website [www.etender.up.nic.in](http://www.etender.up.nic.in) & [www.buat.edu.in](http://www.buat.edu.in) only.
  - c) In order to allow prospective bidders reasonable time to take into consideration the amendments while preparing their bids, at its discretion, BUAT may extend the deadline for the submission of bids.
- 13- Bid currency- Prices shall be quoted in Indian Rupee only.
- 14- The successful bidder shall have to execute the Work orders placed on any date during the validity of the tender at the rate, terms and conditions of the tender.
- 15- BUAT may not issue 'C' or 'P' form of sales tax or any other type of tax relaxation form of Government and the bidders are therefore requested to quote the rates of sales tax or any other taxes payable in absence of such forms/declarations.
- 16- The lowest price is not the criteria and emphasis is placed on quality and specifications of the work. The BUAT, has right to reject any or all the offers and invite fresh quotations if need arises. The BUAT, further reserves the right of selecting the brand and accepting or otherwise any of the conditions stipulated by bidder.
- 17- Design and drawing of the sub component/works need to be provided as per the specification.
- 18- Firm/ companies should have ISO 9001:2015, 14001:2015 certified.
- 19- List of Clients should be enclosed for reference, so that our technical committee could visit site.
- 20- Detailed technical drawings of the work to be enclosed by tender.
- 21- If in any case, the quoted item is not available in the market, the successful bidder will have to supply higher version/ replacement of that item in the quoted cost in the same time duration with prior approval of BUAT Banda.
- 22- All duties, taxes and other levies payable by the Contractor under the Contract shall be included in the total price.
- 23- EMD of unsuccessful agency/contractor (except L1, L2 & L3) remitted in the form of DD will be returned to the concerned contractor without any interest thereon, as early as possible.



- 24- Applicant should have the experience of completion of similar works during last 7 years ending last day of month previous to the one in which tenders are invited should be either of the following:-

Three similar completed works each costing not less than the amount equal to 40% of the estimated cost,

OR

Two similar completed works each costing not less than the amount equal to 60% of the estimated cost,

OR

One similar completed work costing not less the amount equal to 80% of the estimated cost.

- 25- The Successful Bidder shall have to deliver the performance security either by a Bank Guarantee or a Bank Draft in favour of the Comptroller, Banda University of Agriculture and Technology, Banda for an amount equivalent of 10% of the Contract price. The Performance Security shall be valid till the expiry of the period/ maintenance of work.
- 26- Income-tax & GST at the rate of 2% will be deducted from the bill of the executing agency / contractor.
- 27- For water & Electricity supplied by this institute 2% of the cost shall be recovered.
- 28- The bidder is advised to visit the site of works at his own expenses and obtain all information that may be necessary for preparing the quotation.
- 29- The successful bidder will held responsibility for the required work items sufficiently and properly packed for transport so as to ensure their being free from loss/damage /injury on arrival of destination BUAT premises. The material should be supplied in the original company's packing which shall indicate packing details and other particulars as required under the statutory provisions. In the event of breakages or loss of items during transit/installation against requisition order the said quantity will have to be replaced/supply by the supplier (Selected bidder) without any additional charges.
- 30- Tender Supporting Documents (TSD) received late and/ or not submitted in the prescribed formats or in the prescribed manner, incomplete in any respect or not accompanied by prescribed documents are liable to be rejected. BUAT, Banda will not be responsible for non-receipt of tender within the specified date and time due to any reason including postal delays.
- 31- All rights are reserved with the Banda University of Agriculture and Technology, Banda Authority to accept or reject any or all the tenders received without assigning any reasons thereof.**
- 32- The BUAT may place repeat orders against the acceptance of tender within a period of validity, subject to the same terms and conditions

originally provided in advertised in e-tender and selected bidder shall accept the same.

- 33- Successful bidder failing to provide after services would be permanently blacklisted.
- 34- All documents uploaded as well as sent in physical form must BEAR PAGE NUMBERS in sequence, including sequential fresh page numbers given on each page of printed /photo copy material. The same page numbers are required to be mentioned in CHECKLIST provided.
- 35- For query regarding detail specification of the instruments, firm can contact concerned Scientist (as per Chapter 7), preferably during office hours.

### **Special Terms and Conditions :-**

1. The Bidders shall be empanelled with state Government of India or Central Government for supplying and installation of drip irrigation system
2. The bidder/company should have experience of operation and maintenance of cumulative area of 100 acres for five years in drip irrigation system. The operation and maintenance should have been done in any one in last five years counted from the date of publication. A proof of this shall be submitted along with the Technical Bid.
3. To ascertain ability for timely completion of job, the bidder should also furnish the list of works on hand with all details such as bid cost, date of entrustment, stipulated date completion, actual date of completion, completed cost of work. In addition, the bidder should produce certificates from an authority competent to sign and certify to the effect that the bidder has carried out works not less than 50% of the contract value in the last five years.
4. During the time of technical evaluation, if the tender committee finds any certification/ information furnished is false, such bidders will be disqualified and barred from participation in the bid.
5. Irrigation systems design – Systems performance with respect to design emission uniformity and system capacity has to meet peak water requirements of fruit/forest crops.
6. Quantity of materials supplied and installed should be of BIS standard.
7. Drip/Micro irrigation supplier should timely supply spare parts and rectifications of defects.
8. The Drip/Micro irrigation supplier should place a qualified support team to guide and support to field level staff by way of field visits, intensive monitoring.
9. The irrigation system design for each block or irrigation plot that will have/require separate design tailor made to the farm and should follows the design guidelines. The system should have the components confirming the BIS and the design capacity adequate to satisfy the peak water requirement of the fruit/forest plants to be irrigated within the design area.

10. It will be the responsibility of the Drip/Micro Irrigation supplier for bringing all the irrigation components of pre-approved brands/make to the field site, viz., safety and control valves, pipes and its fittings, drippers and laterals or emitting pipe etc and all other accessories which are required to erect drip irrigation systems.
11. It is the responsibility of the Drip/Micro Irrigation suppliers for laying the water carrier main and sub main pipe lines for irrigation system as per the approved design specification and standards and commissioning of micro irrigation system.
12. The Drip/Micro Irrigation Supplier Should ensures the design performance of the system using only approved/authorized parts.
13. The Drip/Micro Irrigation supplier should obtain commissioning/ completion certificate after design test performance of the micro irrigation system from the university authority.
14. After commissioning, the Drip/Micro Irrigation suppliers should submit, a complete update of the installed irrigation system layout. This update should include a clear presentation of the head control unit, water carrier and distribution system including pipelines, location of control and safety valves, air release valve, junctions and other components.
15. The Micro Irrigation supplier/Drip manufacturer must maintain and ensure availability of spare parts of all the system, components during the period of 4 years from the date of supply within 3 days of getting the request along with the payment from university for ensuring optimal system and crop performance.
16. To issue a performance warranty for a period of four years, from the date of commissioning of the micro irrigation system, where-under the micro irrigation supplier should undertake repairs or replacements of any portion or the entire system if they are found to be defective in material or workmanship. The repairs or the replacement shall be carried out by the Micro irrigation supplier at the cost of Micro irrigation supplier within 7 working days of receipt of the written complaint from the university authority.
17. Any benefit arising out of relaxation in fiscal policy/tax concessions given by both state government and Government of India in future would be automatically passed on to Project Implementation Agency by Micro irrigation suppliers/companies.
18. The Micro irrigation supplier shall be responsible for the fulfilment of legal obligations arising on the employment of staff and workers in case of any incident or accident and the Micro irrigation supplier shall also indemnify the university authority from any liability whatsoever.
19. The prices of all the drip/micro irrigation system components will be fixed throughout the contract period.
20. The Micro irrigation supplier agrees that in the event of failure to complete with the time schedules for implementation, rectification and / or repairs and in case of poor/unacceptable performance, in general, of the Micro irrigation suppliers, the university authority shall cancel the supply order already placed and shall order some other supplier, to perform the obligations of defaulting supplier. This process of ordering

the “Specific Performance or Cancellation of supply order with imposed, on the Micro Irrigation supplier if any, and the damages shall be deducted from any amount payable to the Micro irrigation supplier including the performance guarantee amount.”

## **2- Payment:**

Advance or part payment will not be entertained. Payment will be made only after Satisfactory completions of the work duly certified by the works unit of BUAT, Banda. The payments by the purchaser to the selected supplier will be made in Indian currency only by crossed multicity Cheque or RTGS/NEFT.

## **3- Construction Period**

Successful bidder has to make the installation of drip irrigation system within 30 days to maximum 45-50 days from date of issue of work order. The application for extension of installation period shall be sent to concern ordering office of Banda University of Agriculture and Technology, Banda at least 5 days prior to the expiry of installation period of installation item. The officer in charge, who is placing the order, may grant extension or reject the application and their decision in the matter shall be final and binding to all. During installation the agency will be responsible for the safety of raw materials.

## **4- Warranty:**

- i. All the installation and its related materials shall be strictly in accordance with the specifications for micro irrigation system.
- ii. In case of any trouble or defect originating from the specified design, workmanship etc. of any installed material arises within a period of 24 months from the date of completion of installation work, the bidder at his own expense shall repair / replace as may be necessary to facilitate the satisfactory completion of work.

## **5- Demonstration:**

Supplier has to perform on-site live demonstration as per trial requirements of concerned scientist with bidders'/suppliers.

## **6- Dispute:**

In case of any dispute between BUAT, Banda and bidder, final decision of The Vice Chancellor, Banda University of Agriculture and Technology, Banda will be binding upon all. In case of any dispute arises in respect of this tender, a suit in that behalf shall be subject to Banda, Jurisdiction.

## **7- Reasonability of prices:**

- a) Please quote best minimum prices applicable for a premiere Research Institution, leaving no scope for any further negotiations on prices.
- b) “Banda University of Agriculture and Technology, Banda” reserves all rights to invite quotations and yet procure or not procure any or all of the accessories of the quoted work depending upon the availability of funds and/or approval or any reason at the time of procurement of the instrument. However the quotation for all work and its related items will necessarily be valid 365 days from date of opening of financial bid.

**Comptroller**  
BUAT, Banda

## **Chapter 5: Tender Fee, EMD and Security Deposit**

Bidder has to submit non-refundable Tender Fee Rs. 1,000/- (Rs. One Thousand Only) in the form of Bank Draft in favour of “Comptroller, Banda University of Agriculture & Technology”, payable at Banda (U.P.).

### **Earnest Money Deposit:**

Bidder has to submit Earnest Money Deposit Rs. 25,000/- (Rs. Twenty Five thousand Only) in the form of Bank Draft/FDR drawn on Nationalize bank in favour of “Comptroller, Banda University of Agriculture & Technology”, payable at Banda. Tender shall be accompanied by an Earnest Money Deposit, without which tenders will not be considered. Minimum validity for EMD should be minimum six months. No interest will be paid by the institute for refund of EMD.

### **Refund of Earnest Money Deposit:**

The earnest money of unsuccessful Bidder will be refunded.

## **Chapter 6: Technical Bid Document (TBD) Submission**

This chapter consists of forwarding letter, technical bid form and Check List duly signed as per Performa with signed terms and conditions (Chapter – 4) along with original bank draft of tender fee and EMD. All these pages required to be submitted in hard copy bearing page numbers in sequence which must be corresponding with online upload document submission. The technical bid form and Checklist pages are also required to be submitted in e-tender with all relevant documents bearing page numbers correspondingly given in technical bid as well. If all the relevant information's are not submitted in e-tender, party is liable to be disqualified on technical ground.

All these pages required to be submitted in hard copy with physical document submission. While technical bid page is also required to be submitted in e-tender as well.

Do not provide other unnecessary documents like explaining company profiles, nature of the company, services and miscellaneous things which is not inquired.

Do not put financial bids of the Items anywhere in the Technical Bid Document submission under physical submission



# BANDA UNIVERSITY OF AGRICULTURE & TECHNOLOGY, BANDA (U.P.) 210001

## Technical Bid Form

(supported by document proof)

1. Name of supplier/ firm : .....
2. Name of the owner of firm : .....
3. Complete postal address : .....  
(Document copy) .....
4. Telephone Number : .....
5. FAX Number (if any) : .....
6. E-mail address : .....
7. GSTIN No. (Document copy) : .....
8. PAN No. (Document copy) : .....
9. Company/Firm Registration No : .....  
(Document copy)
10. Whether, supplier/firm has been blacklisted, Yes or No, if yes,  
attach oath letter : .....
11. Whether, any dispute/legal action has been occurred or in under process of legal action against  
you and your firm, Yes or No, if yes, attach detail : .....
12. Any other details : .....

We agree to abide by the terms and conditions of supply mentioned in this tender document.

Signature of bidder  
(with Stamp, Name and Designation)

\* Kindly upload readable and self signed certificate/document/letter of above mentioned information.



# Letter for Bidder

From:

.....  
.....  
.....

To,

Comptroller,  
BANDA UNIVERSITY OF AGRICULTURE & TECHNOLOGY, BANDA (U.P.) 210001  
E-mail: [comptroller.mskjuat@gmail.com](mailto:comptroller.mskjuat@gmail.com)  
Phone No. 05192-232313

Subject: Submission of tender for the installation of drip irrigation system.

Sir,

I/We hereby submit the offer (duly filled) in response to the advertisement/e-tender notice 15/2018-19 of 2018-19 for installation of drip irrigation system, in accordance with the terms and conditions of such supply and declare as under: I/We hereby offer to supply to Banda University of Agriculture & Technology, Banda in accordance with the terms and conditions, here to annexed and at the prices given by me/us in Financial section of online tendering. I/We enclose herewith Tender Fee in favour of "Comptroller, Banda University of Agriculture & Technology, Banda" and EMD in the form of DD/FDR in favour of " Comptroller, Banda University of Agriculture & Technology, Banda " drawn on nationalized bank having branch at Banda (U.P.) with following details.

<b>Fee</b>	<b>Amount (Rs.)</b>	<b>Amount in words</b>	<b>DD/FDR No. and Date</b>
Tender fee			
EMD			

I/We carefully read and understood and agree to abide by the said terms and conditions set in the tender document here to annexed and the description/specifications of the items.

I/We agree to hold this offer open till 365 days from the date of due date of opening of the tender.

I/We agree that in case of dispute, if any, the decision of the Competent Authority of Banda University of Agriculture & Technology, Banda shall be final and binding upon me/us.

Signature of bidder  
(with Stamp, Name and Designation)

**Check list-COMPULSORILY DULY COMPLETED**

<b>Sr. No.</b>	<b>Document/ Certificate</b>	<b>Attached Yes/No</b>	<b>Sequential Page Number</b>
1.	Tender Fee: Demand draft of Rs. 1000/- Non-Refundable).		
2.	EMD: DD/FDR as applicable (Refundable)		
3.	Technical bid form (only intender format given) with self signed required mentioned documents.		
4.	Valid Registration Certificate of bidder's firm. (Shop Act Registration/ Partnership deed/ Memorandum of article / Registration of firm/ Small Scale Industry Registration etc.)		
5.	Original affidavit from the bidder that business entity is not blacklisted.		
6.	Income tax return for the last 3 financial years.		
7.	Certified Turnover Certificate by CA for the last 3 financial years i.e., 2015-16 to 2017-18 with minimum turnover of Rs. 1.00 crore in each year.		
8.	Notarized Manufacturer certificate/ subsidiary company certificate/Fresh Authorization Certificate.		
9.	Specification Supporting Documents with colour catalogue.		
10.	Valid quality certificate like ISO or equivalent.		
11.	Design and drawing of the sub component/works need to be provided as per the specification.		
12.	Signed Terms & Conditions (Chapter-4).		

**Note:**

- 1- All documents uploaded as well as sent in physical form must BEAR PAGE NUMBERS in sequence, including sequential fresh page numbers given on each page of printed/photocopy material and same should be provided in the CHECK LIST above
- 2- All photocopied documents must be attested with seal and signature bearing page numbers.
- 3- Client list with complete address and contact number where supply of quoted items has been made is preferable to submit with technical bid.

**DECLARATION**

I/We solemnly declare that we have attached all the documents mentioned here above and mentioned in the tender. It is verified that all the certificates/permissions/ documents are valid and current as on date and have not been withdrawn/cancelled by the issuing authority.

I/We further undertake to produce on demand the original certificate/ permission/ document for verification at any stage during the processing of the tender.

I/We also understand that non-compliance of any documents will be treated as non-respective tender and we will lose our claim to participate in the Tender Enquiry automatically and our tender will be liable to reject.

Name of the Firm: -

Signature of bidder  
(with Stamp, Name and Designation)

## **Chapter 7: Contacts and Correspondence details**

### **Correspondence address for submission of Physical documents:**

Comptroller,  
Administrative Building,  
Banda University of Agriculture & Technology,  
Mawai Buzurg, Banda (Uttar Pradesh) 210001  
E-mail: [comptroller.mskjuat@gmail.com](mailto:comptroller.mskjuat@gmail.com)  
Phone No.; 05192-232313

**(For queries related to item specifications only, contact in office hours only)**

<b>S. No.</b>	<b>Name of Faculty</b>	<b>Contact Number</b>
1.	Dr. A.K. Srivastava, Associate Professor Department of Fruit Science, College of Horticulture, BUAT Banda (U.P.)	9829291885 srivastavahort@yahoo.com

## **Brief specification of the work**

Installation of drip irrigation systems including pumping unit, filtration unit, pipes, emitters & all other accessories for fruit and forest plants at different location and spacing under research & education activities at BUAT Banda campus. Plant spacing for orchard to be establish are as under :-

<u>Sl.No.</u>	<u>Mentioned spacing</u>	<u>Area</u>
1.	8m X 8m	3 ha
2.	6m X 6m	8 ha

Source of irrigation is bore well/pond which is approximately 350 m away from installation area of drip lines.