



કૃષિ ઈજનેરી અને ટેકનોલોજી કોલેજ

આણંદ કૃષિ યુનિવર્સિટી

ધોળાકુવા ગોધરા-૩૮૯ ૦૦૧

ફોન નં. (૦૨૬૭૨) ૨૬૫ ૧૨૮ , ૨૬૫ ૦૨૭

**ઓન લાઈન ઈ-ટેન્ડર નોટીસ નં.કૃઈટેકો-૦૧/૨૦૧૪**

કૃષિ ઈજનેરી અને ટેકનોલોજી કોલેજનાં વિવિધ વિભાગો માટે ઈક્યુપ્મેન્ટ્સ ઈન્સ્ટ્રુમેન્ટ્સ લેન્ડ/લોન ડેવલપમેન્ટ, અર્થ વર્કસ તેમજ વિવિધ સાધન સામગ્રીની ખરીદી માટે માન્ય ઉત્પાદકો/અધિકૃત વિક્રેતાઓ પાસેથી ઓન લાઈન ઈ-ટેન્ડર મંગાવવામાં આવે છે. ઈ-ટેન્ડરના વિસ્તૃત વિવરણ અને અન્ય શરતો ટેન્ડર ફોર્મમાં દર્શાવવામાં આવેલ છે. સદર ટેન્ડરના ડોક્યુમેન્ટ ડાઉનલોડ કરવા તેમજ ઓન લાઈન ભાવ ભરવા માટે <https://au.nprocure.com> વેબ સાઈટ જોવાની રહેશે. ટેન્ડર અંગેની વધુ માહિતી (1)[www.nprocure.com](http://www.nprocure.com) (2) [www.aau.in](http://www.aau.in) પરથી તેમજ ઉપરોક્ત કચેરીનો સંપર્ક સાધતાં મળી શકશે. ઓનલાઈન ઈ-ટેન્ડર કોઈપણ કારણ દર્શાવ્યા વગર રદબાતલ કરવાનો હક અબાધિત રહેશે.

|   |   |
|---|---|
| ટેન્ડર ફી   | રૂ.૧૫૦૦/-   |
| ઓન લાઈન ડોક્યુમેન્ટ ડાઉનલોડ કરવાની તેમજ ઓનલાઈન ભાવ ભરવાની છેલ્લી તારીખ                    | તા.૦૮/૦૧/૨૦૧૫<br>૧૮:૦૦ કલાક સુધી                        |
| ટેન્ડર ફી / બાનાની રકમ તથા ટેકનીકલ બીડ માટેના જરૂરી ડોક્યુમેન્ટ્સ સબમીટ કરવા માટેની તારીખ | તા. ૦૯/૦૧/૨૦૧૫થી<br>તા.૧૭/૦૧/૨૦૧૫ થી<br>૧૮:૦૦ કલાક સુધી |
| ઓન લાઈન ટેકનીકલ બીડ ઓપનીંગ  | તા.૧૯/૦૧/૨૦૧૫<br>સમય ૧૧:૦૦ કલાકે                        |
| ઓન લાઈન ફાયનાન્સિયલ બીડ ઓપનીંગ ટેકનીકલ બીડની કામગીરી પુર્ણ થયા પછી કરવામાં આવશે.          |   |

આચાર્ય અને ડીન  
કૃષિ ઈજનેરી અને ટેકનોલોજી કોલેજ,ગોધરા

**Notice for Inviting On Line E-Tender for Purchasing of Various Items**  
**College of Agricultural Engineering & Technology**  
**Anand Agricultural University**  
**Dholakuva, Dahod Road, GODHRA-389001 Gujarat, India**  
**Phones: +91-2672-265128, 265027(Fax) Email : dean.caet@aau.in**

**Tender Notice No. CAET-01/2014**

On line **e-Tender** is invited for the purchase of various equipments, instruments and land/lawn development, earth works with other miscellaneous items as per **Annexure -3**, for different departments under different budget heads at CAET Godhra.

|   |   |
|---|---|
| Tender Fees   | Rs. 1500/-  |
| Last date of submission of online price bids.   | <b>08 /01/2015 up to 18.00 hrs.</b>   |
| Period for Physical submission of tender fees, EMD and other documents by <b>RPAD/Speed post only.</b><br>i.e. Last date for reaching at CAET Godhra. | <b>From 09 /01/2015 to 17/01/2015</b><br><br><b>17/01/2015 up to 18.00 hrs.</b>                                 |
| Online opening of Technical bid –place, date and time   | Office of the Principal, CAET, AAU,<br>Dahod road, Dholakuva, Godhra<br>on date: <b>19/01/2015 at 11.00 hrs</b> |
| Online financial bid opening will be done after completion of technical bid   |   |

**1.0 General instructions:**

- 1.1 The fees for on line tender document will not be refunded under any circumstances.
- 1.2 EMD in the form specified in tender document only shall be accepted.
- 1.3 Tenders without Tender document fees, Earnest Money Deposit (EMD) and which do not fulfill all or any of the condition or submitted incomplete in any respect will be rejected.
- 1.4 Conditional tender will not be accepted.
- 1.5 The tenderers are advised to read carefully the "Terms & Conditions" contained in the tender documents and abide the same strictly.
- 1.6 The Internet site address for E-Tender is <https://au.nprocure.com> and that of corporate web site is [www.nprocure.com](http://www.nprocure.com)
- 1.7 Free training camp for bidders will be organized on every Saturday between 1.00 to 5.00 P.M. at (n)Code solutions, A division of GNFC, 301, GNFC Infotower, Bodakdev, Ahmedabad- 380 054 (India). Bidders are requested to take benefit of the same.  
(n)Code solutions A division of GNFC 301, GNFC Info tower, Bodakdev, Ahmedabad- 380 054 ( India )  
Tel : +91 26857316/17/18 Fax: +91 79 26857321  
E-mail: nprocure@ncode.in Mobile: 9327084190, 9898589652

## 2.0 Down loading Tender Document:

- 2.1 Bid documents will be available on web site up to Date shown above.
- 2.2 Bidders wishes to participate in this tender will have to register on web site <https://au.nprocure.com>

## 3.0 Digital Certificate:

- 3.1 Bidders who wish to participate in online tenders will have to procure / should have legally valid Digital Certificate as per Information Technology Act-2000 using which they can sign their electronic bids. Bidders can procure the same from any of the license certifying Authority of India or can contact (n)code solutions - a division of GNFC Ltd, who are licensed Certifying Authority by Govt. of India.
- 3.2 All bids should be digitally signed, for details regarding digital signature certificate and related training involved the below mentioned address should be contacted:  
(n)Code solutions  
A division of GNFC  
301, GNFC Infotower, Bodakdev, Ahmedabad- 380 054 ( India )  
Tel : +91 26857316/17/18  
Fax : +91 79 26857321  
E-mail : nprocure@ncode.in  
Mobile : 9327084190, 9898589652
- 3.3 Bidders who already have a valid Digital certificate need not to procure a new Digital certificate.

## 4.0 On line Submission of Tender:

- 4.1 Bidders can prepare & edit their offers number of times before tender submission date & time. After tender submission date & time, bidder cannot edit their offer submitted in any case. No written or online request in this regard shall be granted.
- 4.2 Tenderer shall submit their offer in Electronic format on above mentioned website & Date shown above after Digitally signing the same.
- 4.3 Offers submitted without digitally signed will not be accepted.
- 4.4 Offers in physical form will not be accepted in any case.

## 5.0 Submission of Tender Fees, Bid Security and other Documents:

- 5.1 **Tender Fee: Rs. 1500/- (Rupees One Thousand Five Hundred Only)** by Demand Draft in favour of **“AAU Fund Account, Anand”** payable **at Anand** from any Nationalized/Scheduled Bank except Co-operative Bank. Demand draft issued after the last date of submission of Bids will not be considered or accepted.
- 5.2 Bid Security i.e. EMD in the form of DD/FDR in favor of **“AAU Fund Account, Anand”** payable **at Anand** from any Nationalized / Scheduled Bank except Co-operative Bank. DD/FDR shall be valid up to 90 Days. DD/FDR issued after the last date of submission of tender will not be considered as valid or accepted in any case.
- 5.3 DD/FDR for E.M.D. & DD for tender fee shall be submitted in electronic format through on line (by scanning) while uploading the bid. This submission shall mean

that E.M.D. & tender fee are received. Accordingly technical bid of only those shall be opened whose EMD and tender fee is received electronically or followed by their actual receipt in physical form with all supportive documents as mentioned above. For the purpose of realization of DD/FDR bidder must send the DD in original, only through **R.P.A.D/speed post (not courier services)** to the **Principal & Dean, College of Agricultural Engineering & Technology, Dhola kuva, Dahod Road, Godhra-389001, Gujarat**. Penalty action as directed by Govt. for not submission DD/FDR in original to the Principal by bidder shall be initiated, if found so.

- 5.4 Usually exemption for EMD is not allowed, unless proper supportive valid certificate/documentary evidence is provided in final bids. It must be submitted electronically well in advance followed by its proper physical submission along with DDS or other technical document. Any other documents in support of bid shall be submitted in electronic format only through online (by scanning etc) & hard copies are to be sent through **R.P.A.D/speed post (not courier services)** to the **Principal & Dean, College of Agricultural Engineering & Technology, Dhola kuva, Dahod Road, Godhra-389001, Gujarat**. .
- 5.5 Bidder has to submit the documents as said in 5.3 & 5.4 above and no any other condition shall be considered at all, at the time of evaluation of the tender. The bidder shall have to submit unconditional offer without differing from any of the tender condition.

## **6.0 Opening of Tender:**

- 6.1 Opening of technical bid documents will be held on Date & time shown above at the office of the Principal & Dean , College of Agricultural Engineering & Technology, Dhola- kuva, Dahod Road, Godhra, Dist- Panchmahal, Gujarat - 389 001.
- 6.2 Intending bidders or their representative who wish to remain present at College of Agricultural Engineering & Technology, Godhra premises at the time of tender opening can do so.

## **7.0 Contacting Officer:**

- 7.1 Further details/clarification if any required will be available from Principal & Dean, College of Agricultural Engineering & Technology, Dhola-kuva, Dahod Road, Godhra-389001, Gujarat. Phone & fax No. (02672) 265128, 265027.
- 7.2 In case bidder needs any clarification/assistance or if training required for participating in online tender, they can contact at following office.
- (n)Code solutions  
A division of GNFC  
301, GNFC Info tower, Bodakdev, Ahmedabad- 380 054 ( India )  
Tel : +91 26857316/17/18  
Fax : +91 79 26857321  
E-mail : nprocure@ncode.in  
Mobile : 9327084190, 9898589652

## **TERMS AND CONDITIONS:-**

As applicable for various equipments, instruments, and land/lawn development, earth works with other miscellaneous items for different departments at CAET Godhra,

1. The Tenderer should fulfil the following requirements, copy of which should be attached with the Tender document failing which the Tender will be rejected:
  - (a) Firm Registration Certificate under the shops & Establishment Act **1958**
  - (b) Valid & Recent Authorized dealer/distributor/ own manufacturer for authentic supplies/sales/services in the region.
  - (c) Documents pertaining to I.T returns for current & last two financial years and PAN card must be necessarily submitted.
  - (b) CST registration certificate /VAT registration certificate /Service Tax clearance certificate
2. The rates quoted should be for final F.O.R. price for CAET, Godhra **(inclusive all types of applicable taxes and other expenditures if any)**
3. Rates quoted should be inclusive of all the applicable expenditures related to erection, commissioning and installation of the machine/equipment to install it into working condition at C.A.E.T., Godhra. Only space and power source will be provided by C.A.E.T., Godhra. No concessional forms will be issued for any tax rebate.
4. Rates should be inclusive of training for 2-3 CAET staff, if required for any machine/equipment.
5. Each and every page of the offer (in particular the physical documents) should be in variably signed by the Tenderer before submission and as a token of acceptance. Corrections, if any should be duly signed & sealed.
6. The quantities specified are only indicative and for the purpose of estimate only. The university will be at liberty to vary (delete/reduce/decrease) the quantum of the item. Also the university has the full right to order or not to order the items even for the successful Tenderer, depending upon latest budgetary situations or any other reasons/development.
7. If offered item is of slight varied configurations (preferably higher side) the same should be authentically supported with required comparative statement showing such variations with supportive documentary evidences and logical facts & figures. In absence of these, quotation may be rejected. Also the inclusion or rejection of such cases will be the right of university.
8. Validity of the quotation should be of at least 90 days from the last date of receipt of the quotation. The rates quoted by the bidder shall remain firm till the completion of the job and price variation shall not be entertained.
9. Payment shall be made only after satisfactory installation and demonstration. Advance or part payment will not be entertained in any case.
10. In case of inferior/sub-standard supply, or supply not according to the Specifications approved, the University will have the right to reject the complete material and cancel the supply order at the cost of supplier, with due penalties too.
11. The selected firm should be able to offer a minimum warranty of 1 year for the items supplied and free repair/replacement of these item, has to be done by the suppliers in case of damage or manufacturing defects, noticed if any.

12. **Performance Security Deposit:** The successful tenderer shall furnish Bank Guarantee/Performance guarantee which will be equal to 5% of the work order value, in the form of Bank Guarantee/FDR from a Nationalized Bank in favour of “**AAU Fund Account, Anand**” payable **at Anand** from any Nationalized / Scheduled Bank except Co-operative Bank within 10 days from the receipt of Purchase/supply order, which will be returnable after completion of the warranty period, failing which 5% of the purchase order value will be withheld for the period of the Guarantee/warranty.
13. In case of delay in supply, the Organization will have the right to impose penalty @1.5% per month (to be computed on per day basis) of the total cost of ordered item(s) and instantly or subsequently cancel the supply order
14. In case of non-compliance of the work order or creating needless /illogical/purposeful delays or complication after entering into Agreement, the Security Deposit will be forfeited and the party will be black listed even for 3 years or more. Also, further action shall be taken at the costs of the supplier.
15. Tender forms only from original **manufacturers/ their authorized dealers/distributors/suppliers** who are authentically in the concerned field will be considered. However manufacturer and their sole authorised dealer in the region will be preferred provided they offer least price.
16. The credentials of the party, list of customers and complete illustrated literature should be supplied with the tender form, giving a broad periphery of their recent list of clients & Copy of purchase order for reference but only to whom the quoted items were supplied. (Avoid any irrelevant kind of documents)
17. The overall turnover of the firm/agency/supplier in recent three years will need to be mentioned categorically and be supplied in advance with physical documents, to assess the credential of firm in respect to quoted products.
18. The firm shall remain bind for arranging pre-inspection of the item as per convenience of office to judge original quality /performance preferably at destination i.e. CAET Godhra. If required, sample(s) of the item(s) shall needs to be dispatched from the parties for quality assessment before award of supply order.
19. In certain cases of sophisticated instruments/items the firm need to plan and manage to give a live demonstration of their products at CAET Godhra and at their own cost, before decision of purchasing or final release of supply order.
20. All the electronic items should comply with international standards for safety, electromagnetic emissions and immunity, CE/FCC Mark/Certification, etc.
21. Tenderer should have to attach original colour catalogue with detailed specifications of each quoted product ensuring exact offered configurations.
22. In case of defective items, the same shall have to be replaced by the party concerned at its own cost, risk, and within stipulated time.
23. Tenderer must supply the web address of their firm or products related information to justify and verify the genuineness of products offered as well their creditability.
24. **Being an education institution we are eligible for exemption of excise duty / custom duty.**
25. The Earnest Money Deposit (EMD) in the form of crossed Demand Draft payable to “**AAU Fund Account**” payable **at Anand**, shall have to be accompanied with the filled Tender Forms. Tender submitted without EMD shall not be considered.
26. Tenderer shall not be permitted to withdraw his offer or modify the terms and conditions thereof. In case the tenderer fails to observe and comply with the stipulations made herein

- or back out after quoting the rates, or does not supply the afore said items within the stipulated period, the EMD will be forfeited.
27. All necessary physical tender documents with check list **as per Annexure -1** in sealed envelopes should reach the office of the Principal, CAET, AAU Godhra-389001 before **18.00 hr** on **17/01/2015** by **RPAD/Speed Post Only**.
  28. While sending physical bid documents along with DDS/ Technical documents etc., Please super scribe the envelope, **“Technical bid for various equipments, instruments and land/lawn development, earth works (Tender: CAET- 01/2014)”** and sender’s name and address must be essentially mentioned in clear way.
  29. The University authority reserves the right to accept or reject any or all the offers in full or apart or to waive off any specific formality, minor deviations and omissions without assigning any reason(s) or even to cancel the tender in whole. In case of disputes, decision of Vice Chancellor, Anand Agricultural University, Anand will be final and acceptable to all the parties.
  30. Submission of offers shall be treated as a binding of acceptance of AAU Terms & conditions.
  31. The University has the right to retain the rates of L-1 to L-3 parties as deemed fit, based upon qualitative as well as subjective judgements looking into the standards of products as well as firms in terms of valid certifications like ISI, ISO or any other qualitative standards both for products as well as services. Being mere L-1, without meeting qualitative or desired parameters will not qualify the bidder for final consideration under such situation alternative bids could also be considered for award of supply order based upon relevant importance of facts if any.
  32. In case of Furniture or alike specific items the specified specifications/model makes needs to be strictly adhered. Items with deviations in above respect will not be considered, hence need not to be quoted.
  33. While quoting the rates, it will be desirable if the exact photograph, technical brochure or the supportive letter/documents of respective items will be attached with quotation, to authentic their genuineness.
  34. It will be desirable if the original manufacturer/ company/proprietary firms may also quote their best possible minimum rates for this newly developed academic organization offering best possible rebates if any.
  35. Service Support office should be available in Gujarat (preferably near organization). Supplier should keep the necessary spares available with their office. Technical & financial standing of the firm and major supplies in recent past with proof must be attached.
  36. For the purpose of realization of DD & physical documents (which are scanned & placed at n-procure) the bidders shall need to send the DD & all physical documents in original through **RPAD/Speed Post only** so as to reach to CAET office as mentioned in the tender documents **within the stipulated last date of reaching of the said physical documents, dispatched only after closing date of financial bids i.e 08/01/2015, 18:00 hrs.**
  37. No exemption from EMD shall be given to any party on any account whatsoever. Offer received without EMD shall be outright rejected except the offers who fulfill the condition mentioned in point no. (5.4) under the heading “submission of tender fees, bid security and other documents” of this document. EMD received after beginning of process of opening of tender shall not be accepted and offer shall be treated as without EMD and outright rejected. Even if any of the firm has sufficient and documentary evidences showing orders

of exemption of EMD submission from competent authority/department, it could be considered in specific case based on merit.

38. **Up gradation of Software:** Up gradation of Software for at least **one year** at free of cost necessarily. However supply of most updated version shall be adhered.
39. In case of certain instruments like meteorological etc the bidder must have a testing certificate of IMD/ NABL approved govt. Laboratory to justify their product/its configurations and their authenticity.
40. Bidder must offer a quote for mentioning the period for which the support for effective maintenance of the products/systems will be provided at free of cost.
41. The bidder must be registered as an OEM/authorized supplier/authorized dealer/distributor for a sufficiently long period of time along with necessary registration proof/documentary evidences.
42. It will be required for the bidders to provide certain valid documentary evidences ( set of recent reference purchase orders, list of recent clients, set of certain performance evaluation certificates or reports from their reputed client & institutions/ R &D organizations, etc).

**Signature of Tenderer with Date:**

**Name:**

**Name of the Firm:**

**Address:**

**Telephone No. :**



**CHECK LIST FOR PHYSICAL SUBMISSION**

Note: Please attach all the documents in physical submission as per following sequence with **SPIRAL BINDING**.

| Sr. No. | Sequence of Documents   | Please tick ( v/X)* |
|---------|---|---------------------|
| 1       | Index with page nos   |                     |
| 2       | Covering letter indicating the details of sr. no. of item & name of item for which rates are quoted and details of Tender fee DD, EMD DD with their respective amount, DD No. , date, Issuing bank, branch etc. |                     |
| 3       | Details of firm as given in Annexure-2  |                     |
| 4       | Firm registration certificate   |                     |
| 5       | Authorized dealer/distributor certificate (Item vise)   |                     |
| 6       | Income Tax returns for current & last two financial years   |                     |
| 7       | PAN card Xerox  |                     |
| 8       | CST registration certificate  |                     |
| 9       | VAT registration certificate  |                     |
| 10      | Service tax clearance certificate if applicable   |                     |
| 11      | Technical specifications of respective item (original catalogs) (Item vise)   |                     |
| 12      | Color photographs of respective item (Item vise)  |                     |
| 13      | Information brochure of respective item if available  |                     |
| 14      | ISI/ ISO/ any other standardization certificate of respective item if available   |                     |
| 15      | Recent reference purchase orders of respective item (Item vise)   |                     |
| 16      | List of recent clients to whom this particular item supplied (Item vise)  |                     |
| 17      | Set of certain performance evaluation certificates from the reputed client & institutions/ R & D organizations to whom this particular item supplied, (Item vise)   |                     |

\* v - if Attached, X – if not attached

**DETAILS OF FIRM**

|  |  |
|--|--|
| Name of firm   |  |
| Name of proprietor/s                                     |  |
| Corresponding Address with PIN                           |  |
| Contact No. (Office)                                     |  |
| Contact No. (Mobile)                                     |  |
| Fax No.  |  |
| e-mail id  |  |
| Website  |  |
| Firm registration No. with name of registering authority |  |
| PAN card No.   |  |
| TIN No.  |  |
| CST registration No.                                     |  |
| VAT registration No.                                     |  |

| List of items with specifications for e-Tender No. CAET-01/2014 |   |   |                    |           |
|---|---|---|--------------------|-----------|
| Sr. No.   | Name of Item                              | Specifications  | Quantity (Approx.) | EMD (Rs.) |
| 1   | <b>Digital Lysimeter</b>                  | Digital gravimetric weighing lysimeter having dimension 130 cm × 130 cm × 90 cm (height); 2000 kg soil capacity with tapper at bottom for leachate collection; tank made of 3 mm thick mild steel (welded properly without any leakage); datalogger with hourly data recording facility; battery life not less than one week; PC interface with USB 2.0 for data (in mm depth) retrieval in MS office readable format; and outer tank fabricated with thick gauge mild steel, painted leak proof.   | 1                  | 15000     |
| 2.  | <b>Digital Water Level Indicator</b>      | Suited for both surface water and groundwater level (at least 150 m depth) monitoring having brass/ steel probe connected with permanently marked waterproof tape with markings at every mm/ cm. Sounding apparatus with acoustic and light signal; electrode not more than 1.5 cm diameter; suited for all kinds of groundwater (sensitivity 50 μS/cm to 180 mS/cm) and reading accuracy not more than 1 cm.   | 1                  | 3000      |
| 3.  | <b>Digital Water Level Stage Recorder</b> | Suited for both surface water and groundwater level (at least 200 m depth) monitoring having vented gauge pressure sensor; at least 2 GB non-volatile flash memory; resolution not more than 2 mm; 1 min to 24 hrs logging interval; ±0.1% accuracy; more than 2 year battery life; Real time clock of accuracy not more than ±2 minutes/ year; PC Interface having USB 2.0 port & GUI based software for data downloading in MS-office readable format; GSM/GPRS interface with SMS reporting; Rechargeable SMF batteries with integral solar panel. | 1                  | 6000      |

|    |                         |   |   |      |
|----|-------------------------|---|---|------|
| 4. | <b>Bio-diesel Plant</b> | <p><b>1.Esterification Reactor:</b> 1Set<br/> S.S 304, 80 Liters volume Esterificaton reactor with S.S Electric heating coil of 2KW; Thermo well with thermometer; S.S liquid flow indicator; Reaction view port; Reaction pressure indicator; Charge/Loading port; Polypropylene circulation pump for liquid transfer and S.S spray line; Reaction test cork, safety valve, etc.</p> <p><b>2. Trans-esterification Reactor/ Glycerin separation/ Methanol recovery</b> 1Set<br/> S.S 304, 80 Liters volume Trans-esterificaton reactor with S.S Electric heating coil of 2KW; Thermo well with thermometer; S.S liquid flow indicator; Reaction view port; Reaction pressure indicator; Charge/Loading port; Reaction test cork, safety valve, etc.</p> <p><b>3.Washing and drying vessel</b> 1Set<br/> Washing and drying vessel in SS 304 with 80 liters volume Bio-Diesel with top lid and bottom cone. The vessel is fitted with 2KW SS heating-coil, thermo meter, inlet and outlet and drain valves</p> <p><b>4.Methoxide Reactor</b> 1Set<br/> S.S 304 Methoxide reactor comprising of S.S Agitator with digital controlled R.P.M Indicator fitted with stand; Charge/Loading port; Drain control valve and pipe line connection in SS 304; Reaction test cork, safety valve, etc</p> <p><b>5.Reflux/ Recovery Condenser</b> 1Set<br/> S.S 304 Vapor condensing tubes in Carbon Steel Body, water inlet &amp; outlet, vapor inlet &amp; condensate outlet with recovery control valve and pipelines; Final vent; Pressure indicating gauge</p> <p><b>6.Hot water tank</b> 1Nos<br/> Hot water tank with 100 liters holding capacity equipped with 2kw heating-coil, water inlet &amp; outlet, over flow valve, drain control valves, temperature indicating thermometer mounted on a Carbon Steel Stand connected with flexible washing shower</p> <p><b>7.Carbon Steel Structure</b><br/> The structure is a rectangular Carbon Steel box-pipe structure to mount reactor and equipments. This structure is specially designed</p> | 1 | 7500 |
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|    |  | <p>in the form of a portable skid. If required, the structure can be transported to different sites</p> <p><b>8.Portable Electric control panel</b> 1Set<br/>A traditional portable electric control panel with single phase pins and socket system equipped with indicators, volts and amps meter</p> <p><b>9.Day Tanks</b> 2Nos<br/>Carbon Steel structure housing two 80 liters capacity S.S 202 tanks with lid and draining valve as Bio-Diesel day tank and glycerin day tank respectively</p>  |   |       |
| 5. | <b>Drag Bucket for Laser Land Leveller with all Accessories:</b> | <p>“Arrow” scraper bucket equipped with ruggedly constructed frame, twin double wheels with tubed tyres of suitable size, fitted with laser mounting platform, complete hydraulic system for automatic operation of scraper including (1) Main Frame: Square Box Frame with centre support; (2) Bucket Sheet : 10 mm; (3) Scraping Blade : 100x10 mm; (4) Drawbar : 75x40 mm channel box; (5) Hydraulic Cylinder : Solenoid valve and cables; (6) Width: 2 m and (7) Tyre Set : 4 Tyres.</p>   | 1 | 3000  |
| 6. | <b>Rainfall Simulator</b>  | <p>Rainfall Simulator used for deriving run-off hydrographs from model catchments, preparing draw-down curves for one well and two well systems, analyzing ground water flow and hydraulic gradients and formation &amp; development of river features over time consisting of the following components: (i) A 1.5m x 1m stainless steel tank, tiltable using a dual linked jacking system; (ii) 8 stainless steel spray nozzles mounted on an adjustable height gantry; (iii) A stilled tank providing a formed flow river inlet; (iv) Two flowmeters (3L/min &amp; 5L/min) to measure and adjust the inlet flows; (v) An outlet tank allowing both water and sediment flow to be measured; (vi) Two French drains, two well points and 20 manometer tapping points linked to a manometer; and (vii) A large plastic sump tank plus a recalculating pump. Additionally the Experimental capabilities must also include below given facilities/modules :</p> <p>(a) Run-off hydrographs from model catchments<br/>(b) Draw-down curves for one well and two well systems<br/>(c) Ground water flow and hydraulic gradients</p> | 1 | 15000 |

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|    |   | (d) Model stream flow in alluvial material<br>(e) Formation and development of river features over time<br>(f) Sediment transport, bed load motion, scour and erosion  |     |       |
| 7. | <b>Earthwork / Preparation of Mexican Carpet Lawn</b> | Preparation of ground by trenching the existing soil to a depth of 15 cm, disposal of excavated earth, and filling of ground by duly mixed 15 cm good quality red garden soil, free from stones, grasses, roots, termites etc. and 5 cm farm yard manure, rough dressing of ground, watering the area and fine dressing as per the direction of EIC, providing and planting Mexican lawn type - Readymade grass over the well prepared surface in the area including providing/spreading fertilizers, pesticides etc., planting the grass including watering and maintenance of the lawn for a period of 90 days or more till the grass forms a thick lawn free from weeds. Additional soil will be added in areas that are to be mounded, and will be treated as indicated areas including all lead and lift. <b>(quantity is in sq. m and quote the rate per sq.m)</b> | 800 | 15000 |