

OFFICE OF THE DEAN FACULTY OF AGRICULTURE:: AAU :: JORHAT
NOTICE INVITING QUOTATION

Sealed quotations are invited from the reputed manufacturers/authorized dealers/ suppliers for supplying Equipments. The quotation may be obtained wef 16.1.2018 from the office of the undersigned personally or by sending self addressed stamped (Rs. 50/- for Speed Post) envelope on payment of Rs.200/-(Rupees Two hundred) only in form of Demand draft in favour of the Dean, Faculty of Agriculture,AAU,Jorhat-13 and will be received by the undersigned along with 2% earnest money on quoted value up to 1.00 PM on 29/01/2018 and will be opened on the same date and hour. The documents can also be downloaded from the classified section of University's Website www.aau.ac.in

Sd/-D.K Borah
Dean

No. AAU/FA/10/(3/660)/17-18/ 7665 -79 Dt. 12/01/2018

Copy Forwarded for information and necessary action to:-

1. The Comptroller, AAU, Jorhat-13
2. The Registrar/Director of Extension Education/ Director of Research/Director of Physical plant/
Director of PG studies/ Director of Students welfare/Chief Librarian/ Dean, Faculty of H.Sc. They are requested to display the NIT' in their Notice board.
3. Web Master, ARIS Cell, AAU, Jorhat, He is requested to Upload the advertisement in AAU Website.
4. Notice Board, Dean's Office/Post office/, Jorhat-13.

(D.K.Borah)
Dean,
Faculty of Agriculture
AAU,Jorhat-13

TERMS AND CONDITIONS

1. The quotation will be received up-to 1.00 PM on 29th Jan/2018 and will be opened on the same date and hour. In case of holiday the same will be opened on the next working day.
2. The quotation fee of Rs.200/- (Rupees three hundred) only in form of Demand Draft drawn in favour of Dean, FA, AAU, Jorhat-13 must be deposited and not refundable.
3. The earnest money @ 2% on quoted value in the form of Call Deposit only in favour of the Dean Faculty of Agriculture, Jorhat-13 must be submitted along with the quotation. Quotation without EMD will not be accepted. EMD of the unsuccessful bidders will be released after finalization of the purchase and EMD to the successful bidders will be released after receiving the goods in good condition and proper installation, demonstration where necessary.
4. The Quotation should be duly sealed and Super scribed on the sealed cover "Tender for Supply of some major & Minor Equipments" vide Memo No. AAU/FA/10(3)/660)2017-18/ 7665 - 79 Dated the 12/01/2018
5. The Quotation for the ELP items should be submitted separately super scribed on sealed Cover "Tender for ELP Items, THT"
5. The Quotation shall remain valid up-to 31st March/2018
6. Time for completion of delivery is 30 Days from the issue of supply order.
7. The rates should be FOR destination and inclusive of charges, Viz. packing forwarding, freight, insurance, Excise duty etc.
8. GST to the local firms be allowed and should be shown separately in the quotation. Where ever the laws and regulation require deduction of taxes at the source of payment of purchase shall effect such deductions from the payments due to the supplier, the remittance of amount so deducted & issuance certificate for such deduction shall be made by the purchaser as per the laws and regulation imposed.
9. Payment by A/c payee cheque on State Bank India, AAU, Branch shall be made after receipt of the items in good condition and installation, demonstration where necessary.
10. Overwriting or erasure in rates in the quotation shall not be considered.
11. Attested copies of GST Registration certificate, must be submitted with the quotation. Attested copies of PAN Card & TIN must be submitted along with the quotation.
12. Up-to-date tax clearance certificate and Income Tax Return of last two years dully attested must be submitted along with the quotation.
13. Detailed specification with make, Model and name of the Manufacturer should be furnished. The technical specification of the item must be supported by printed lift lets/ brochures of the manufacture.
14. Manufacturer or Authorized dealer with up-to-date printed price list and attested copies of the dealership certificate will be given weight age.
15. The Warranty of the items shall be as per the prevailing warranty policy/certificate of the manufacturer for the items and the warranty period shall not be less than twelve months from the commissioning of the items at site. The bidder shall furnish the warranty for all the items at the time of delivery and commissioning. The purchaser shall reject the items without the warranty certificate from the manufacturer. The warranty certificate should be duly signed and sealed.
16. Free installation / Fittings /demonstration will have to be provided by the firm with their service engineer in case of equipments and machineries of intricate nature.
17. Vague terms, such as, big , small, medium, best quality etc. will not be accepted.
18. Quotation must be submitted separately for each item Equipment Etc.
19. Information to be furnished in our prescribed format must be submitted in a properly labeled C.D. as Softcopy. (MS Word)
20. The undersigned reserves the right to accept or reject any or all quotations without assigning reason thereof.

Dean,
Faculty of Agriculture,
AAU, Jorhat-13

List of Items for ICAR Dev Grant

SI No.	Particulars	Specification
1	Heater for Kjeldahl apparatus (6 Burning Top)	Supplied complete with 6(Six) sets of Mantle type heating platform, distillation and one for digestion. The unit is supplied complete with condenser rack, LED FUME DUCT and pair of hangers, Complete set up is supplied on a M.S. Tubular stand. Both units are supplied with individual energy regulators. To work on 220/230 volts A.C. Supply. 1. Distillation unit Borosil glass parts complete set (each set) 2. Borosil Digestion flasks cop. 500 ml. cap. (each) 3. Clamps for distillation unit (each)
2	Water Bath (Temp control),	Capacity : 8 Ltr; No. of Holes : 6.0, Temperature : Up to 95 C, Material : Stainless Steel Thermostatic type. Stainless Steel top plate, 300x250x100 mm, Cap:-14 Lit
3	Magnetic Stirrer	It has compact stirring device utilizing a rotating magnetic field (create by a permanent magnet) which induces variable speed stirring action. Stirring is accomplished by means of small applied from below the container. The unit is fitted with pilot lamp. To work on 220/230 volts A.C. supplied complete with one stirring Teflon bar..With digital display with hot plate temp is controlled by digital (body made of fully S. Steel.) Cap.: 1lit
4	Hot Air Oven	Temp- 250°C, Doubled wall inside anodized Aluminum./SS perforated adjustable shelves with digital Temp. controller Size:- 750x750x2400mm
5	Autoclave (vertical)	Electro operated Big Size, Pressure Range 15 to 20 PSI, Stainless Steel Cap:- 100 Ltr
6	Student Microscope	Magnification 100 x - 100x Standard set complete with wide filed eyepieces NWF10x , hard anti reflection coated color coded par focal achromatic objectives 4x, 10x, 40x, &100x (Spring oil) attachable graduated. mechanical stage (120 x 125mm) with convenient adjustment for manipulation of slides & plano-Concave mirror in adjustable fork mount sub-stage abbe Condenser (N.A. 1.25) fitted with an Iris diaphragm & blue filter..
7	Compound / Scientific Microscope	Standard microscope set complete with binocular head, integrated with 6 V 20 W Halogen light illuminator , Antifungal coated Achromatic objectives iNEA4x, 10x, 40x (Spring) and 100x (oil, spring) paired wide field eyepieces
8	Distillation Unit	Dist. Water output Capacity : 2.5L/hr..Minimum Cooling water requirement : 1 lit / min..Biological activity: Pyrogen Free..Conductivity S/cm : < 2 x 10 .Power required : 230-250 Volts. Single phase 2.2 Kw..Standard Accessories Provide the System :. DAPS ; for Automatic power cut off the heater in case of low water level falls below the heating coil thereby safeguarding the heater
9	Mini Grinder	Suitable to operate in 220V. single phase , to grind grain , Straw samples,
10	Brix meter	Accurate to $\pm 0.2\%$, Brix scale division0.2% Sturdy design made of durable machined Aluminum housing only Including screwdriver and bottle of distilled water,
11	Gauge type Tensiometer	Length 100cm, to measure tension between 0 -0.85 bar gauge
12	Pycnometer	Capacity 100 ml
13	Auger	Tube Type Auger 1 Mtr length, with 15cm tube
14	Auger	Buck Type Auger with 15cm holder
15	Auger	Screw Type Auger 1 Mtr. length 30cm Screw
16	Electronic Balance	LCD Display , Cap:- 500gm, Pan size 165 x 165mm, Readability: 0.01gm

17	Spring Balance,	Cap- 5Kg, least count 10gm
18	Top Pan balance	i. Capacity - 1 Kg, ii Capacity- 2 Kg with least count 10gm
19	Multi End Silk Reeling Machine	Cap:- 4Basins, Length 3.2 Mtr, With:-1.52 Mtr, production /8hours 4.8 Kg fitted with 3Phase 1 Hp Motor , Reel made of Nylon material of 100mm with 670 mm Circumference, reeling Machine made of 20 gauge SS 304 grade Mounted on a MS channel of75x40x6mm
20	Cocoon Sorting Table	Rectangular Table fabricated with 20Gauge C.R Sheet box type with semi translucent with 4 Nos Fluorescent tubes of 40W Length:- 2.5Mtr, Width:-0.6Mtr
21	Cooking Unit	Cap:- 2 PAN, Length 0.71Mtr, Width:-0.51Mtr, Made of SS 304 grade 18 gauge material. Provided by a Cu tube 10mm 14Gauge for Steam connection and 20mm Gun Metal/Brass Ball Valve for draining out waste water.
22	Epprouvette	Metallic frame, hand operated and fitted with an Analog Revolution Counter meter, provided with Aluminum hub with 4 spokes in which 2are collapsible, Reel circumference of 1.125mtr accurately
23	Denier scale	Range 0 to 40 Denier , Sensitivity: 0.25Denier, Accuracy:- 0.25Denier mounted on tripod Aluminum stand & provided with Chromium plated leveling screws , Knife edge support, SS pointer and Pivot for leveling.
24	Bomb Calorimeter	Used for determination of combustion of heat of calorific value of the fuel & other organic material. Designed as per specification of Institute of Petroleum BS 1016 standard IS No. 1350 1966. Supplied complete with water jacket made of Brass/ S. Steel sheet duly nickled chromium plated with Bakelite Lid. S. Steel Bomb, Bomb Jacket, Water Colorimeter Vessel. Motorised heavy duty stirrer for uniform Circulation. Briquit, Pellet Press heavy duty. Firing unit with Illuminator Vibrator & Buzzer , spanners, magnified glass with nichrome wire & Cotton reel. Gas Releasing Valve, S. Steel crucible. Benzoic Acid with known calorific value. Full feature Digital Controller & Safety device. Technical Specifications: Duty Cycle : Continuous Housing Material : Brass/ S. Steel duly Nickled chromium plated water jacket S. S. vessel S. S. Bomb, Water Vessel Power Consumption : 220 /230V AC Supply Single Phase \pm 10% 50Hz
25	Hand Held Infrared Thermometer	Temperature Range -30 °C to 500 °C Distance to spot 10:1 (calculated at 90% energy) Laser sighting Single laser Accuracy \pm 1.5 °C or \pm 1.5% of reading, whichever is greater -10 °C to 0 °C: \pm 2.0 -30 °C to -10 °C: \pm 3.0 Response Time (95%) <500 ms (95% of reading) Spectral Response 8 to 14 microns Emissivity 0.10 to 1.00Display Resolution 0.1 °C Repeatability of readings \pm 0.8% of reading or \pm 1.0 °C, whichever is greater Operating Humidity 10 % to 90 % RH non-condensing at 30 °C Operating Altitude 2000 meters above mean sea level Storage Altitude 12.000 meters above mean sea level IP Rating IP 54 per IEC 60529 Drop Test 3 meters
26	Soil Moisture meter (Gypsum Block with meter)	The instrument is for detecting saturation percentage of water in soil. It is workable on 9 V Battery 3.5 Digit display. Complete with 20 cm electrode and wooden box. Range: 1-100 Saturation %.Accuracy: \pm 0.2%.Dimention: 22 x 10 x 10cm..Operation: Battery 9V x 2.Electrode Size: 20 Cm..Display: L.C.D 3.5 Digital..

27	Lux Meter	Including Calibration protocol ,Protective Cap, Wrist strap, Belt holder, Batteries, Measuring range: 0 ... 99,999 lux,
28	Seed Germinator	Designed for conducting various experiments on variety of seeds under different parameters of Temperature, humidity etc. atmospheric environment can thus easily be simulated within the Laboratory to perform different experiments without going into the field, by creating desired Condition of temperature & humidity in the chamber of seed germinator. It is of double walled Construction. Inner chamber is made of S. Steel (S.S. 304 Grade) & Outer cabinet is made of M. Steel duly pre treated & finished with epoxy powder paint BI-Coluor Insulation is provided between inner chamber & outer body to minimize heat loss. SS Water Reservoir at the bottom provides 90% to 95% +_3% RH Humidity. Fixed humidity (not adjustable).Temperature from ambient to5 C to 50° C, +_ 1°C, Is controlled by Digital temperature controller cums Indicator, Supplied complete with SS 14 adjustable perforated trays. Complete with cord and plug To work on 220/230 V.A.C. Supply. 1.Microprocessor Based. PID temp. Controller Cum indicator 2.Microprocessor Based. Programmable Timer. 3.Digital Humidity Indicator cum controller INSIDE CHAMBER SIZE 555 X 910 X 605 MM
29	Hot Plate	It has compact stirring device utilizing a rotating magnetic field (create by a permanent magnet) which induces variable speed stirring action. Stirring is accomplished by means of small applied from below the container. The unit is fitted with pilot lamp. To work on 220/230 volts A.C. supplied complete with one stirring Teflon bar..With digital display with hot plate temp is controlled by digital (body made of fully S.Steel.) Cap.: 1lit
30	Heating Mantle	Made of yarn to provide uniform heating of flasks up to 400°C built in Energy regulator, fitted in nicely painted metallic box. Flask cap 2000ml.
31	Flame Photometer	Micro controller based, can be determine 4 elements with single aspiration (Na,K,Li & Ca) , Curve fitting correction for non linear emission characteristics of element at higher concentration. Ax live point calibration. PC link software, Four line 20 character LCD display. Built in real time clock for date and time of analysis. Air compressor with built in air regulator air filter.
32	pH Meter	pH 700 Meter With pH Electrode (ECFC7252101B), ATC Probe (PH5TEMB01P), Integral Electrode Holder & 100/240 VAC Adapter
33	Conductivity Meter	Conductivity Range:0 µS to 200.0 mS. Conductivity Resolution:0.01 / 0.1 / 1 µS ; 0.01 / 0.1 mS .Conductivity Accuracy:±1 % full scale. Conductivity Cal. Points: Up to 5.Conductivity Cell Constants:0.1, 1.0, 10.0 (selectable).TDS Range:0 to 100.0 ppt @ 0.5 fact (200.0 @ 1 factor).TDS Resolution:0.01 / 0.1 / 1 ppm ; 0.01 / 0.1 ppt.TDS Accuracy:±1 % full scale.TDS Cal. Points :Manual (5 points); maximum 1 per range.TDS Factor:0.40 to 1.00 (adjustable).Temp. Range:0.0 to 100.0 °C / 32.0 to 212.0 °F.Temp.Resolution:0.1 °C / 0.1 °F.
34	Class Room Table	Independent Class Room Chair made of iron frame . Size: Height : 2½", Length: 3', Breath: 2'. Made of Iron frame with perfortable or laminated top.
35	Class Room Chair	Armed Chair with back & bottom causion, made of iron frame.

LIST OF EQUIPMENTS/MACHINERY TO BE PURCHASED FOR ELP ON TEA

SN	Item	Description
1.	Generator	Generator set (2 No.) 30 KVA each
2.	Digital Weighing Scale	Digital Weighing scale of 10 kg, 5kg and 1kg capacity.
3.	Grading of processed tea	Grading machine for green and black tea Myddleton (1 no), Hobro Tea Sorter (1 no)
4.	Mini Tea manufacturing unit	A micro unit to process sample green and black tea of about 1-2 kg green leaf with all components for manufacturing green and black tea like Withering Trough, Roaster, Table Roller, Mini CTC, Fermenting Equipment and Dryer. All equipments to be made of brass or stainless steel. Power and energy should be electricity and gas. Humidifier for fermenting equipment desired. Preferably the whole unit to be installed on a movable surface.
5	Roaster for Green Tea processing	Capacity 10 kgs of green leaf per batch. Roaster to be made of stainless steel with stirrer inside. To be fitted with gas burner at bottom.
6.	Steamer with boiler	A boiler to serve a steamer with a capacity of 10 kgs of green leaf per batch to process steamed green tea
7.	Form, Fill and Seal (FFS) machine	Minimum Capacity of 200 pouches per hour of 250 g to 500 g with automatic filling and packing facility
8.	Infra red moisture meter	Suitable to determine moisture content with infra red drying preferably in tea up to minimum of 0.05 per cent
9.	Microwave oven	A common oven with microwave drying facility. 20 lit capacity
10.	Hot Air oven	Size 24"X24"X36" with all accessories
11.	Nursery shed	1000 m ² . Arc shaped whole net house structure raised on 47mm x 47mm + 1mm GI square pipe 'B' class (ISI). Size – (LW) 6'-3" X 3'. Covering of all side and roof done by 75% UV stabilized shade net, Colour black/green. Misting unit with heavy duty 1 HP motor; nozzles, filter, pipes etc., Other accessories such as storage tank, filters etc. Structure raised on RCC pillars of 1'X1'X2' size at each vertical pillar