

Tender Notice

Principal, ASPEE College of Horticulture & Forestry, Navsari Agricultural University, Navsari-396450 is inviting quotations in sealed cover for (1) repairing of Blast Freezers ; supply of (2) BOD (Cooling) Incubator (3) Manual Press for Bamboo Strip Board (4) Chlorophyll Meter (5) Methyl Eugenol (6) Cue Lure rate on per piece base and work for (7) Labour cost for harvesting of Bamboo including loading/unloading and transportation on per tonne basis. (Vanarasi Farm, Ta. Vandsa, Di. Navsari) (8) Service for soil metagenomics sequencing and data analysis (9) Cudddeback Cameratrapp. The quotations in sealed cover are invited by post/ courier Separate quotations should be sent for each of the above items, super scribing the cover with the name of the item and "**Quotation for ACHF, NAU, Navsari**". The last date of receiving quotations is 17/02/2020. More details are available on www.nau.in. For further queries contact respective persons available in specifications.

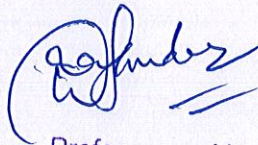
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Specifications

College Name	ASPEE College of Horticulture and Forestry, NAU, Navsari
Name of the Instrument	Repairing of Blast Freezer Units (2 No)
Contact Person	Dr. Dev Raj, Prof., ACHF, NAU, Navsari Mo. No. +91 99137 53252

Detail of Purchase:

Sr. No.	Name of the Instruments	Quantity	Specifications
1	Repairing of Blast Freezer Units	2	Two Blast Freezer units (-40°C and -20°C) available at Department of PHT, ACHF is in urgent need of repairment. Machine is not working due to rusting of the outdoor units. It may require repair / replacement of Compressor, leakage pipes, cooling pipes, condenser, Solonet Valve, Pressure Switch, Cooling fan three phase motor, Condenser three phase motor, Panel Board, with gas charge. In the storage area (4 Ton and 2 Ton Capacity) the leakage problem of the insulated walls must be solved. After repairment, there must not be any electrical shock of the machine. The unit after repairment must possess atleast One year warranty. The Blast Freezer units must be seen in the Department of PHT for calculation of the estimate. The party must possess the experience of working for repairment of the related refrigeration machinery at the University departments if possible. The repairment must be done in the Department only. Preference should be given to justifiable work.



Professor and Head
Deptt. of Post Harvest Technology,
ASPEE College of Horticulture & Forestry,
Navsari Agricultural University,
Navsari - 396 450. Gujarat

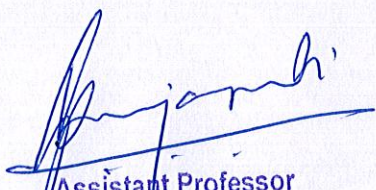


Principal
ASPEE College of Horticulture and Forestry
Navsari Agricultural University
NAVSARI-396 450

College Name	ASPEE College of Horticulture and Forestry, NAU, Navsari
Name of the Instrument	BOD (Cooling) Incubator
Contact Person	Dr. Viral P. Prajapati, Asst. Prof., ACHF, NAU, Navsari +91 96012 78020

Detail of Purchase:

Sr. No.	Name of the Instruments	Quantity	Specifications	
			Particular	Specifications
2	BOD (Cooling) Incubator	1	Chamber Capacity	150 litre
			Chamber Internal dimensions (L x D x H) in mm	500 x 500 x 600
			Temperature Range	+5 °C to 60 °C
			Control Accuracy	±0.5 °C at 20.0 °C
			Stainless steel Wire Mesh Shelves	3 Nos.
			Interior Construction	SS 304
				It should have Chamber illumination
				It should have Eye level door mounted controller with flush but embossed button panel for easy setting, access and check up of operating status
				It should have efficient internal circulating fan(s) with self lubricating sleeve bearings for long life and silent operation.
				It should have High tempered safety glass of 5 mm for internal door.
				It controller should have timer of in format HH:MM / HHH:M mode with bypass 0 mode; auto tuning and alarms.
				It should have Digital PID temperature controller with stainless steel sheathed PT100 sensor for precise monitoring & control.
				Other Specifications
				Door mechanism: latch type door, frameless and seamless with tempered glass
	Local Service Setup for prompt and efficient post sales support			
	Calibration reports with NABL traceability			

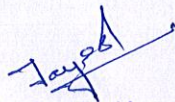

 Assistant Professor
 Department of Plant Pathology
 ASPEE College of Horticulture and Forestry
 Navsari Agricultural University
 Navsari-396450



 Principal
 ASPEE College of Horticulture and Forestry
 Navsari Agricultural University
 NAVSARI-396 450

College Name	ASPEE College of Horticulture and Forestry, NAU, Navsari
Name of the Instrument	Manual Press for Bamboo Strip Board
Contact Person	Dr. Jayesh Pathak, Asst. Prof., ACHF, NAU, Navsari +91 96628 58490

Detail of Purchase:

Sr. No.	Name of the Instruments	Quantity	Specifications
3	Manual Press for Bamboo Strip Board	1	<ul style="list-style-type: none"> •Range of width of pressing: 150- 300 MM •Range of Thickness of Pressing: 7-50 MM •Length of pressed Material: 1000 MM •Size of Maximum Pressed Material: 300 x 1100 MM •Top pressing system and side pressing system different thickness plates for side pressing should be provided


 Assistant Professor(Agroforestry)
 ASPEE College of Horticulture and Forestry
 Navsari Agricultural University
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College Name	ASPEE College of Horticulture and Forestry, NAU, Navsari
Name of the Instrument	Chlorophyll Meter
Contact Person	Dr. S. K. Jha, Assoc. Prof., ACHF, NAU, Navsari +91 83200 83665

Detail of Purchase:

Sr. No.	Name of the Instruments	Quantity	Specifications
4	Chlorophyll Meter	1	<ul style="list-style-type: none"> ➤ The Chlorophyll meter should measure chlorophyll content and outputs an estimate of actual chlorophyll concentration in units of $\mu\text{mol per m}^2$ of leaf surface (m mol m^{-2}); mass per area of leaf surface, milligrams per square meter (mg m^{-2}). ➤ Sample Area: For Large sample area - 9 mm diameter (64 mm^2) and changeable with Field of View Reducer accessory – 5mm diameter (20 mm^2) for small leaf/crops. ➤ Lightweight design facilitates hand-held measurements in the field. ➤ Integrates with third-party GPS to mark location. ➤ Display: 50mm x 15mm graphic display with 8 push buttons ➤ Output Unit: μmol of chlorophyll per m^2 of leaf surface ➤ Optional Display Units: CCI, SPAD ➤ Resolution: $\pm 10 \mu\text{mol m}^{-2}$, using the generic equation, 0.1Chlorophyll Content Index (CCI) unit ➤ Sample Acquisition Time: Less than 3 Seconds ➤ Data Storage: 8 MB (160,000 data measurements) & 94,000 with GPS data entries ➤ Specific crop species settings in the meter include rice, wheat, soybean, barley, pepper, tomato, pea, kahlrabi, Walderman's Green lettuce, Buttercrunch lettuce, corn, sorghum, Quaking Aspen, European Birch, Paper Birch, Crimson King Maple, Norway Maple, Japanese Maple, Boxelder, Crab Apple, Purple Leaf Sand Cherry, lilac, Forsythia, grapevine, cannabis, coffee, spinach, strawberry, and a general setting used for all other species.





Associate Professor & I/c Head
Department of Forest Biology & Tree Improvement
ASPEE College of Horticulture & Forestry
Navsari Agricultural University, Navsari-396 450



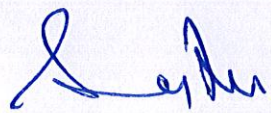
Principal
ASPEE College of Horticulture and Forestry
Navsari Agricultural University
NAVSARI-396 450

College Name	ASPEE College of Horticulture and Forestry, NAU, Navsari		
Name of the Chemical	Methyl Eugenol		
Contact Person	Dr. S. P. Saxena, Prof., ACHF, NAU, Navsari +91 94271 08412		
Detail of Purchase:			
Sr. No.	Name of the Chemical	Approximately Quantity	Specifications
5	Methyl Eugenol	75 kg	Assay (GC).... Min 99% Wt. per ml (20°)....1.035-1.036 g, Refractive index (20°)...1.534-1.535


Professor & Head
Department of Entomology
 ASPEE College of Horticulture and Forestry
 Navsari Agriculture University,
 Navsari - 396 450


Principal
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 NAVSARI-396 450

College Name	ASPEE College of Horticulture and Forestry, NAU, Navsari		
Name of Chemical	Cue Lure		
Contact Person	Dr. S. P. Saxena, Prof., ACHF, NAU, Navsari +91 94271 08412		
Detail of Purchase:			
Sr. No.	Name of the Chemical	Approximately Quantity	Specifications
6	Cue Lure	35 kg	(4-[4-Acetylloxy) Phenyl] - 2 butatone) Assay (GC).... Min 95% Density(g/ml) @ 20° C....1.0-1.110 g/ml Refractive index (20° C)...1.505-1.520



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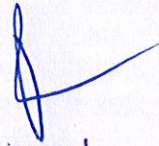

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College Name	ASPEE College of Horticulture and Forestry, NAU, Navsari
Name of the Work	Labour cost for harvesting of Bamboo including loading/unloading and transportation on per tonne basis. (Vanarasi Farm, Ta.Vansda, Di. Navsari)
Contact Person	Dr. Jayesh Pathak, Asst. Prof., ACHF, NAU, Navsari +91 96628 58490

Detail of Purchase:

Sr. No.	Name of the Work	Approx. Quantity	Terms & Conditions
7	Labour cost for harvesting of Bamboo including loading/unloading and transportation on per tone basis. (Varanasi Farm, Ta.Vansda, Di. Navsari)	100 tonne	<ul style="list-style-type: none"> • Harvesting should be done at Kharsani Research Station, Vanarasi Farm, Ta.Vansda, Di. Navsari. • Facilities like food, accomodation etc. will not be provided by NAU, Navsari. • Rate should be inclusive of harvesting, loading/unloading and transportation on per tonne basis. • Delivery of harvested bamboo should be done at Bamboosetum, Navsari Agricultural University, Navsari • Payment should be done after 15 days of receiving material at Bamboosetum.



 Assistant Professor(Agroforestry)
 ASPEE College of Horticulture and Forestry
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College Name	ASPEE College of Horticulture and Forestry, NAU, Navsari
Name of the Work	Service for soil metagenomics sequencing and data analysis
Contact Person	Dr. V. B. Parekh, Asst. Prof., ACHF, NAU, Navsari +91 79901 80362

Detail of Purchase:

Sr. No.	Name of the Work	Approx. Quantity	Terms & Conditions
8	Service for soil metagenomics sequencing and data analysis	1	<ol style="list-style-type: none"> 1. NGS grade meta gDNA isolation from Soil. (approx. 27 samples) 2. quality checking must be carried out using agarose electrophoresis and NanoDrop, Qubit. 3. The amplicon libraries must be prepared using 16S rDNA gene specific primers and indexing using Nextera XT Index Kit. 4. Library validation should be carried out using High Sensitivity D1000 Screen tape using Agilent Tape station kit. 5. Sequencing: library should be sequenced using 2 x 300 bp paired end sequencing using latest sequencing chemistry on Illumina MiSeq platform. 6. Delivery of data up to ~5-6 Lacs Quality reads per sample. 7. Bioinformatics analysis : <ul style="list-style-type: none"> • Data satisfying quality conditions and documents must be provided: <ul style="list-style-type: none"> • Fastq quality checking : base quality, base composition, GC content., Quality filtration of data, QC report (FastQC) Raw data in .fastq file (adapter trimmed, read cleaned, duplication level not more than 5% & no over represented sequences), Library preparation report, • Raw data file=base call file (.bcl) from the machine along with index files & sample sheets. • Phred Quality score : - 80-90% reads should be \geq Q30, • Filtering and identification of V3-V4 region from pair end data : a) Read trimming and identification of V3-V4 sequences. b) Constructing consensus sequences from pair end reads. • Detailed Phylogenetic analysis of microbial distribution • High quality Heat map, abundance and identification of microbial community • Rank abundance plot • Analysis for dominant population • Taxa identification • LCA plot, Rarefaction curve, Alpha diversity • Comparative analysis and beta diversity (PCoA Plot) • Krona Chart • Biome file should be provided. • Operational Taxonomy Unit (OTUs) and Taxonomy classification and relative abundance <ol style="list-style-type: none"> a) Identification of OTUs (From Phylum to species) b) Assignment of taxonomy to each OTU c) Identification of read abundance • Comprehensive report with standard methodology, graphs and tables. • Data submission support at NCBI and Publication support must be provided. • Comprehensive report with publication standard methodology, graphs and tables. • Data submission support at NCBI and Publication support must be provided. Detailed methodology should be sent in MS Word format 8. Company should have Inhouse Illumina Facility 9. Lab should be ISO, GLP certified. 10. Confidentiality of the data has to be maintained



Assistant Professor (Biotechnology)
 ASPEE College of Horticulture and Forestry,
 Navsari Agricultural University, Navsari-396 450


Principal
 ASPEE College of Horticulture and Forestry
 Navsari Agricultural University
NAVSAARI-396 450

College Name	ASPEE College of Horticulture and Forestry, NAU, Navsari
Name of the Instrument	
Contact Person	Dr. A. A. Kazi, Asst. Prof., ACHF, NAU, Navsari +91 94263 24841

Detail of Purchase:

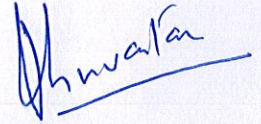
Sr. No.	Name of the Work	Approx. Quantity	Terms & Conditions
9	Cuddeback Cameratrapp	10	<ul style="list-style-type: none"> • Cuddeback Cameratrapp C1 • Resolution: 20 MP • Picture: Day colour/Night colour • Trigger speed:0.25 sec • Flash range: > 10 m • Video mode: Yes • Stamp photo: Date, time, camera ID • Protection cover: all weather • IR Flesh


 Asst. Professor (Wildlife & Ecotourism)
 ASPEE College of Horticulture and Forestry
 Navsari Agricultural University
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Terms and Conditions

1. Quotations are not accepted by hand. Send the quotations by post / courier.
2. Rates should be inclusive of GST / all taxes or if any show separately.
3. Payments will be done through cheque within 10 – 15 days after receiving material and Bill.
4. Delivery of material should be done at ASPEE College of Horticulture and Forestry, NAU, Navsari only.
5. Tender fees @ Rs. 1500 per item should be pay separately as a Demand Draft alongwith quotation in the favor of “Assistant Administrative Officer ACHF, NAU, Navsari” Payable at NAU Branch, Navsari.
6. EMD @ 3 % of price value of Instrument / Repairing / Chemical / Work should be sent as a Demand Draft alongwith quotation in the favor of “Assistant Administrative Officer ACHF, NAU, Navsari” Payable at NAU Branch, Navsari.
7. Party have to pay 5 % Security Deposit after approval of quotations.
8. Legal Jurisdiction will be Navsari.



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