BIDHAN CHANDRA KRISHI VISWAVIDYALAYA



COLLEGE OF AGRICULTURE, SUSUNIA CHHATNA, BANKYURA, WEST BENGAL.

Dr. SUSANTA KUMAR DE

Associate Dean & Professor, Soil and Water Conservation

E-mail: coasusunia.bckv@gmail.com

: susantade kalyani@yahoo.co.in

Phone: 09433438870, 09330430618

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Tender ID: 2023_BCKV_484842_1

E-Tender

The Principal Investigator project entitle "Development of Soil, Plant and Water Testing Laboratory for Sustaining Soil Health and Agricultural Productivity in the Red & Laterite Zone of West Bengal" College of Agriculture, Susunia, Chhatna, Bankura(Extended campus of BCKV) are invited online quotations from the bona fide suppliers/ vendors for supplying the different Instruments as per pacifications stated below within fifteenteen (15)days of publication. Please mention terms & condition clearly against each item, if any, for supplying the Instruments.

- i) Price: The price of instruments including the imported ones should be quoted in each unit (including taxes and duties etc). However, quoted rates must be for destination including packing, insurance and delivery charges up to College of Agriculture, Susunia, Chhatna, Bankura(Extended campus of BCKV)West Bengal with satisfactory of good condition.
- ii) EMD: Vendors are required to pay the Demand draft amounting Rs. 10000/-(Rupees ten thousand) only (xerox copy) as specified along with their quotations. Without EMD quotations will not be considered for technical comparison. Demand Draft must be in favour of "Bidhan Chandra KrishiViswavidyalaya" payable at Kalyani (IFSC: SBIN0001082). Supporting document regarding exemption of demand draft must be submitted.

iii) Supporting Documents:

- a) Bid papers should accompany authorization certificate from original manufacturer, trade license, GST registration etc.
- b) Photocopy (Self attested) of the original supporting document in favour of the specification claim for each item must have to be submitted separately.
- c) User list along with certificate from reputed users also need to be submitted.

Price bid of the vendors will be compared only if technical specificity as appended against each item is fulfilled. The Viswavidyalaya reserves the right to accept or reject any tender without showing reason.

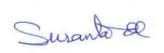
N.B: Please read the carefully terms and conditions of items.

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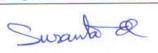
Chairman, CTC, BCKV

Principal investigator
"Development of a soil, plant and
water testing laboratory....Red and
laterite zone of West Bengal"-RKVY
(RAFTAAR), COA, Susunia, BCKV
Bankura, West Bengal

Sl. No.	Name of Instruments	Specification	
1	Environmental Shaker	Outer ms powder coated, inner ss304, vetical model, 10x250ml, 3 no ss ware mesh tray, shaking speed 40-370rpm, vfd controlled (with outpully)temp-4-60 degc, humidity-45-95%, touch screen hmi +iot+ plc+rfid lock based (temp+humidity+rpmgraph, data analysis+history-3yrs+rs 485 interface for data print, software) all should be in one screen& controlled. Product should be iso9001-2015, ce certified	
2	Horizontal Autoclave	Redial locking double walled outer ss304, inner ss 304, capacity-52 ltr, with boiler, automatic(programmable sterilization timmer high temp safety alarm, automatic cycle abortion at high temp limit, computated saturated stem pressure indication, independents air exhaust and sterilization set points with rs485 interface with 21cfr software for pc recording. Product should be iso9001-2015,ce certified	
3	Hot Plate	Size 420 x 320 x 130 mm Ht. Weight 9 kg, Voltage 230v (50Hz), Temperature 250°C maximum Uniformity +/- 2°C. Temperature rise 6°C per minute	
4	Laminar Air flow chamber	design so as to meet the requirement of us federal staandard209b, class 100, ulpa filter 99.99%, moc-outer ss304, inner table –ss304(polish), uv light, prefilter, digital magnehilic, size-2x2x2 ft; Product should be iso9001-2015, ce certified	
5	Mechanical Soil Auger		
6	Microwave digestion system		



		Insulationclass: DigestionTankMaterial:TFM, PEEK, POM Minimumfillingvolume:0.5ml. Minimumcapacityofvessel:30ml Temperaturemeasurement:PT100. Max.Pressure:1000psi(7MPA) Max.Temperature:250°C. Powersupply:AC220V/50HZ,singl. e-phase10A NewIntelli-Systemdesignedforvirtuallyeffortlessoperation LargeCavitytodigestmaximumnumberofsampleatatime Large7-inchscreenwithintegratedgraphicalUleasestheprocedurefromstarttofinish Efficientandprecisepowerdelivery foroptimumresults SystemprovidesPre-SetModesfor theuser'sease FullMetallicConstructionforstructuralstrength&rigidity ConversionofconventionalconditionstoMicrowavedigestionparametersisprovidedbythesy stem Safety/securityandovershootwarningsfortheuser IntelligentInternalSensorscut-offsystemfunctioningforuser'ssafety PiezoelectricpressuresensorforaccuratemonitoringofPressureinsidethevesselduringthedig estion&helpsinacompletedigestionprocess. Allvitalinformationsuchasreal-timetemperature, Pressure,Digestion graphsaredisplayed Integratedstep-by-stepguidancefordigestion Optimizedpositionofmagnetronforlow-trajectoryMicrowaveintroduction DynamicadjustmentofMicrowavepowerbasedondigestionavoids temperatureovershootsNon-pulseandcontinuousheatingcontrollablein1wattincrements Temperaturesensorsprovideforastabletemperatureholdtime MultiLayerchemicalresistancecoatinginsidethecavityimprovestheservicelifeand safetyofsystem
		IntegratedPlatinum(Pt)resistance temperaturesensorforaccuratemeasurementofTemperatureinsidethevessel OutervesselofourdigestionsystemaremadeofUltraStrengthComposite Fiberisinvincible inanti-explosion,corrosionresistant,hightemperatureandpressureresistant
		The machine owns self-test function, Automatic judge fault states to prevent accidents(such as abnormal sound check, abnormal temperature check and equipment running check etc.) Also it has door state monitoring function, the machinecannot startuntilthedoorclosedcorrectly Inner vessel are made up of TFM which with stand High Temperature & Acid Resistant Every Digestion vessel is placedhorizontally in the vessel frame, so the vessel frame has enough strength for balancing vertical, expansive forces whentheinternalpressurerisescontinuously High power anti-corrosion axial fan which owns high efficiency cooling, Only 20 minutes to decreasing temperature of 200°Cto70°C
7	Precision drier	With IOT all data should be on mobile/laptop through wifi Precision dryer :outer ms powder coated , inner polish ss304 ,tepm range-ambeint to 250deg c +/1 degc,ss wire mesh tray 3 pc, blower , size-24x36x36, touch screen hmi + plc+rfid lock based temp. Controlled (temp graph,data analysis+history-3yrs+rs 485 interface for data print, software
8	Refrigerator- temperature control	Touch screen hmi + plc+rfid lock based temp. controlled ,outer shoud be ss 304 polish 1.6mm thick , inner 304 polish, temp range -4 degc to 40 degc , (temp graph,data analysis+history-3yrs+rs 485 interface for data print, software), insulation-puf internal capacity- 160ltr. Product should be iso9001-2015,ce certified
9	Top loading balance	Capacity:220g to 6200g (depending on model) Minimum Display:0.001g to 1g (depending on model) Linearity:0.002g to 1g (depending on model) Calibration Type:Manual
10	X7	Outer SS, Inner SS(thick), Capacity-40 Ltr, Automatic(Programmable Sterilization
10	Vertical	Outer 55, inner 55(inick), Capacity-40 Ltt , Automatic(Frogrammatic Stermzation



1	Autoclave Digital Room Thermometer	timmer High temp safety alarm, automatic cycle abortion at high temp limit, computated saturated stem pressure indication, independents air exhaust and sterilization set points with RS485 interface. Pressure-5-20psi . Product should be iso9001-2015,ce certified	
11		Measuring Parameters	Relative Humidity ands Temperature
		Temperature	0 to +50 °C
			±0.5 °C (at +25 °C)
			0.1 °C
		Humidity	10 to 95%RH
			±3 %RH
			0.1 %RH
		Display	LCD Display with size 2 lines
	-	Operating Temperature	0 °C to +50 °C
		Storage Temperature	-40 to +70 °C
		Measuring Rate	18 Seconds
12	GPS Machine	Standard Survey and Mapping type GPS	

