

कार्यालय, जिला कृषि पदाधिकारी, लोहरदगा

(ईमेल- daolohardaga@gmail.com)

पत्रांक 679 /

दिनांक 27/11/2020

प्रेषक,

जिला कृषि पदाधिकारी,
लोहरदगा।

सेवा में,

जिला जन सम्पर्क पदाधिकारी,
लोहरदगा।

विषय : अल्पकालीन निविदा संबंधी विज्ञापन प्रकाशन के संबंध में।

महाशय,

उपर्युक्त विषय के संबंध में कहना है कि कृषि विज्ञान केन्द्र, किस्को के मिट्टी जॉच प्रयोगशाला में विभिन्न प्रकार के उपकरण, रसायन आदि की आपूर्ति से संबंधित निविदा आमंत्रित किये जाने हेतु विज्ञापन संबंधी आवश्यक सूचना का प्रकाशन हिन्दी एवं अंग्रेजी दैनिक राष्ट्रीय समाचार पत्रों में करने हेतु सामग्री अपलोड करने के निमित्त हार्ड एवं साफ्ट कॉपी (सीडी) इस पत्र के साथ संलग्न कर भेजी जा रही है।

अतः अनुरोध है कि तदसंबंधी विज्ञापन प्रकाशन हेतु सूचना एवं जन सम्पर्क विभाग के वेबसाइट पर राष्ट्रीय दैनिक समाचार पत्रों में प्रकाशन हेतु अपलोड कराने की कृपा की जाए।

अनुलग्नक : सीडी एवं हार्ड कॉपी।

विश्वासभाजन,

जिला कृषि पदाधिकारी,
लोहरदगा।

ज्ञापांक 679 /

दिनांक 27/11/2020

प्रतिलिपि : जिला सूचना एवं विज्ञान पदाधिकारी, लोहरदगा को सूचनार्थ एवं आवश्यक कार्यार्थ प्रेषित। अनुरोध है कि संलग्न अल्पकालीन निविदा को NIC के वेबसाइट में अपलोड करने की कृपा की जाय।

जिला कृषि पदाधिकारी,
लोहरदगा।

OFFICE OF DISTRICT AGRICULTURE OFFICER, LOHARDAGA

Very Short Tender Notice for Invitation of Bids

Tender is being invited in two bid system- (1) Technical bid (2) Financial bid from manufacturers/authorized distributors/dealers/registered suppliers/ reputed firms / government undertakings separately for supply of laboratory Machinery/ Equipment's / Lab furniture's / Chemicals/General lab items etc. & CAMC/AMC of equipments for Soil Testing Lab, KVK, Kisko, Lohardaga, Jharkhand.

A Complete set of Tender Documents may be downloaded from website - <http://lohardaga.nic.in/atmalohardaga.co.in>

Details are given below:-

1.	Tender Reference No.	Tender/DAO(STL)-1-2020-21
2.	Name of Work	Supply of laboratory Machinery/ Equipments / Chemicals / General lab items etc. / CAMC of equipments, for, Soil Testing Lab, KVK Kisko, Lohardaga, Jharkhand
3.	Tender Document Cost (Non- Refundable)	Rs.500/-
4.	Date of Publication of Tender Document on website	28.11.2020
5.	Document Download Period Starts	28.11.2020
6.	Pre-bid Meeting	NA
7.	Last date of submission of Tender	05.12.2020
8.	EMD Amount	Rs. 5000/-
9.	Technical Bid Opening Date	07.12.2020
10.	Opening of Place	<u>Office of District Agriculture Officer, Lohardaga</u> District Agriculture Office, Sadar Block,lohardagai Pin. No. - 835302, (Jharkhand)
11.	Name & Address of the Inviting Tender	Shiv Kumar Ram, <u>District Agriculture Officer, Lohardaga</u> District Agriculture Office, Sadar Block,lohardaga Pin. No. - 835302, (Jharkhand) Email- daolohardaga@gmail.com
12.	Tender Fee and EMD made in Favour of	District Agriculture Officer, Lohardaga
13.	Tender Fee and EMD Payable At	Lohardaga

Address for Communication, Place of Submission of Documents

Office of District Agriculture Officer, Lohardaga

District Agriculture Office, Sadar Block, Lohardaga

Pin. No. - 835302, (Jharkhand)

Shiv
27.11.2020
District Agriculture Officer,
Lohardaga.

Demand for strengthening of Soil Testing Laboratory

Sl.No.	Item	Quantity
1	Distillation Unit	
2	Beaker 500ml	30 pcs
3	Measuring cylinder 25ml	2pcs
4	Measuring cylinder 50ml	2pcs
5	Measuring cylinder 100ml	2pcs
6	Measuring cylinder 250ml	2pcs
7	Measuring cylinder 500ml	2pcs
8	Measuring cylinder 1000ml	2pcs
9	Pipette graduated 0.5ml	2pcs
10	Pipette graduated 1ml	2pcs
11	Pipette graduated 5ml	2pcs
12	Pipette graduated 10ml	2pcs
13	Pipette graduated 25ml	2pcs
14	Round bottom flask with condenser	5pcs
15	Rubber tube 10 mtr coil	1coil
16	Test tube 18 150mm	20pcs
17	Tripod stand 8"	8pcs
18	Aspirator bottle 10Ltr	2 nos
19	Burette stand with double clamp	5 nos
20	Conical flask 100ml	10 nos
21	Volumetric flask 250ml	5pcs
22	Volumetric flask 100ml	8pcs
23	Volumetric flask 50ml	10pcs
24	Volumetric flask 25ml	30pcs
25	Beaker 50ml	30pcs
26	Beaker 1000ml	2pcs
27	Beaker 250ml	10pcs
28	Conical flask 500ml	20pcs
29	Burette graduated 50ml	3pcs
30	Bottle top Dispenser	1pcs
31	Filter peper	100sheets
32	Wash bottle 500ml	5pcs
33	Apron for lab use	4pcs
34	Gloves for lab use	10 pairs
35	Funnel 75mm	20pcs
36	Test tube stand 20 holes of 20mm	5nos
37	Soil PH metre	1nos
38	Hand held pH meter	3nos
39	Digital soil testing kit (mini lab)	3nos
40	Refill for Minikit	3nos
41	Shaker (32)	1nos

Chemical

1	Acetic Acid	8x500ml
2	Ammonium acetate	15x500gm
3	Ammonium fluoride	1x500gm
4	Ammonium molybdate	2x100gm
5	Antimony potassium tartarate	1x250gm
6	Ascorbic acid	1x100gm
7	Azomithane H mono sodium salt	5x5gm
8	Barium Chloride	4x500gm
9	Barium sulphate	1x500gm
10	Boric acid powder	5x500gm
11	Buffer capsule PH 4,7,9,2	3xpkt
12	Calcium chloride	3x500gm
13	Diphenylamine	1x250gm
14	DTPA	2x100gm
15	Ferrous ammonium sulphate	10x500gm
16	Hydrochloric acid	1x2.5ltr
17	Orthophosphoric acid 85%	1x2.5ltr
18	Potassium chloride	1x500mg
19	Potassium dihydrogen phosphate	1x500gm
20	Potassium sulphate	1x500gm
21	Potassium dichromate	4x500gm
22	Sodium fluoride	4x500gm
23	Sodium hydroxide pellets	8x500gm
24	Sulphuric acid	20x2.5ltr
25	Triethanolamine	2x500ml
26	P Nitrophenol Himedia	2x25gm

Miscellaneous items for laboratory

1	Horizontal autoclave	1nos
2	Steel Rack 5"x3"	4nos
3	Lab working table	2nos
4	Godrej Almirah	2nos
5	Computer, printer with Accessories	1nos
6	Recurring expenditure for Electrification, plumbing, & other miscellaneous items	

WATER DISTILLATION UNIT (ALL QUARTZ)

S.NO.	DESCRIPTION	SPECIFICATION	REMARKS
1.	Boiler, Condenser & Heater	All quartz double Stage	Specifications of the items to be supplied by the tenderer (whether same or higher than given specifications, if higher, details to be furnished)
2.	Distilled Water Output	2.5 ltr/hr	
3.	Maximum Water requirement for cooling	2.0ltr/min	
4.	Distillate	High purity, Low conductivity Pyrogen Free	
5.	E.C. :- S/cm	$<1 \times 10^{-6}$	
6.	Total organic carbon	$<500 \mu\text{g/l}$	
7.	Organic matter mg/lit	Nil	
8.	Total solid mg/lit	<0.1	
9.	KmnO4 Color retention	1 hr	
10.	UV absorbance at 254 nm	0.007	
11.	Electrical Requirement:	- 230 volt	
12.	Electronic relay unit buzzer, When water supply interrupted.		
	Constant level device	Yes	
	Safety control Unit	Yes	
	Easy Cleaning of the boiler	Yes	
	Compact & easy to install	Yes	
13.	<i>Product should be certified-ISO/ISI/EC/US/EU. or equivalent standards</i>		

To be filled by Tenderer

Name of the Model

Manufacturer of the Model

Year of release of the equipment

Signature ----- Name ----- Seal

BOTTLE TOP DISPENSER (PINNACLE MODEL) WITH RECIRCULATION VALVE

S.NO.	DESCRIPTION	SPECIFICATION	REMARKS
1.	VOLUME RANGE	MAXIMUM : 60ML/MIN.&10 ML MINIMUM : 5ML/MIN.& 1 ML	SPECIFICATIONS OF THE ITEMS TO BE SUPPLIED BY THE TENDERER (WHETHER SAME OR HIGHER THAN GIVEN SPECIFICATIONS, IF HIGHER, DETAILS TO BE FURNISHED) FREE - INSTALLATION, DEMONSTRATION & TRAINING AT SITE WITH OPERATING MANUAL. WARRANTY MINIMUM TWO YEARS FROM DATE OF INSTALLATION.
2.	DISPENSING STEPS	1.00 ML	
3.	IMPRECISION	± 0.1%	
4.	INACCURACY	± 0.5%	
5.	SHOULD BE AUTOCLAVE ABLE.	YES	
6.	INTERNAL VALVE/S	INTERNAL VALVE/S SHOULD BE SPRING LESS	
	MOC OF WETTED PARTS	MOC OF WETTED PARTS SHOULD BE NON-INTERFERING - ONLY PTFE/ FEP/BOROSILICATE GLASS MAY BE USED.	
7.	DELIVERY NOZZLE	SHOULD BE ABLE TO ADJUST THE DELIVERY NOZZLE ANGLE TO DESIRED DISPENSING ANGLE.	
8.	VOLUME ADJUSTING KNOB	VOLUME ADJUSTING KNOB SHOULD BE LOCKABLE.	
9.	GLASS BARREL	SHOULD BE PROTECTED BY SLEEVE TO REDUCE ACCIDENTAL BREAKAGE OF BARREL.	
10.	DISPENSER	SHOULD BE ADAPTABLE TO 28, 30, 32, 36, 40, 45MM.	
11.	DISPENSER PISTON	SHOULD BE PTFE.	
12.	INLET TUBE	SHOULD BE TELESCOPIC TO ADJUST TO VARYING BOTTLE DEPTHS	
13.	DISPENSER NOZZLE		
14.	INSTRUCTIONS	SHOULD HAVE INSTRUCTIONS/ PROTOCOLS FOR EASY IN-HOUSE RE- CALIBRATION.	
15.	DISPENSER NOZZLE MUST BE EQUIPPED WITH A CAP.	MUST BE EQUIPPED WITH A CAP.	
16.	ACCURACY & COEFFICIENT OF VARIATION		
17.	PRODUCT SHOULD BE CERTIFIED-ISO/ISI/EC/US/EU. OR EQUIVALENT STANDARDS ISO 8655		

TO BE FILLED BY

TENDERER NAME OF THE

MODEL

MANUFACTURER OF THE MODEL

YEAR OF RELEASE OF THE EQUIPMENT

SIGNATURE _____ NAME _____ SEAL

Technical Specifications: Waterproof handheld digital pH meter for measuring of pH value in different fluids. • Automatic temperature compensation (0-50°C) • Accuracy +/- 0,01 • Power Supply: 4x1,5V (AG-13 Button Battery) • Calibration: 1 point through calibration screw. • Dimensions: 188 x 35 x 35 mm • Weight: 98g

A handwritten signature in blue ink, consisting of a stylized 'S' followed by a checkmark-like flourish.

BOTTLE TOP DISPENSER (PINNACLE MODEL) WITH RECIRCULATION VALVE

S.NO.	DESCRIPTION	SPECIFICATION	REMARKS
1.	VOLUME RANGE	MAXIMUM : 60ML/MIN.&10 ML MINIMUM : 5ML/MIN.& 1 ML	SPECIFICATIONS OF THE ITEM TO BE SUPPLIED BY THE TENDERER (WHETHER SAME OR HIGHER THAN GIVEN SPECIFICATIONS, IF HIGHER, DETAILS TO BE FURNISHED) FREE - INSTALLATION, DEMONSTRATION & TRAINING AT SITE WITH OPERATING MANUAL. WARRANTY - MINIMUM TWO YEARS FROM DATE OF INSTALLATION.
2.	DISPENSING STEPS	1.00 ML	
3.	IMPRECISION	± 0.1%	
4.	INACCURACY	± 0.5%	
5.	SHOULD BE AUTOCLAVE ABLE.	YES	
6.	INTERNAL VALVE/S	INTERNAL VALVE/S SHOULD BE SPRING LESS	
	MOC OF WETTED PARTS	MOC OF WETTED PARTS SHOULD BE NON-INTERFERING - ONLY PTFE/ FEP/BOROSILICATE GLASS MAY BE USED.	
7.	DELIVERY NOZZLE	SHOULD BE ABLE TO ADJUST THE DELIVERY NOZZLE ANGLE TO DESIRED DISPENSING ANGLE.	
8.	VOLUME ADJUSTING KNOB	VOLUME ADJUSTING KNOB SHOULD BE LOCKABLE.	
9.	GLASS BARREL	SHOULD BE PROTECTED BY SLEEVE TO REDUCE ACCIDENTAL BREAKAGE OF BARREL.	
10.	DISPENSER	SHOULD BE ADAPTABLE TO 28, 30, 32, 36, 40, 45MM.	
11.	DISPENSER PISTON	SHOULD BE PTFE.	
12.	INLET TUBE	SHOULD BE TELESCOPIC TO ADJUST TO VARYING BOTTLE DEPTHS	
13.	DISPENSER NOZZLE		
14.	INSTRUCTIONS	SHOULD HAVE INSTRUCTIONS/ PROTOCOLS FOR EASY IN-HOUSE RE- CALIBRATION.	
15.	DISPENSER NOZZLE MUST BE EQUIPPED WITH A CAP.	MUST BE EQUIPPED WITH A CAP.	
16.	ACCURACY & COEFFICIENT OF VARIATION		
17.	PRODUCT SHOULD BE CERTIFIED-ISO/ISI/EC/US/EU. OR EQUIVALENT STANDARDS ISO 8655		

TO BE FILLED BY

TENDERER NAME OF THE

MODEL

MANUFACTURER OF THE MODEL

YEAR OF RELEASE OF THE EQUIPMENT

SIGNATURE _____ NAME _____ SEAL _____

pH Range	: 0 to 14.00 pH
Millivolt Range	: 0 to ± 1999 mV
Slope Correction	: 85% to 115%
Resolution	: 0.01 pH, 1 mV in mV mode
Repeatability	: ± 0.01 pH ± 1 digit for pH ± 1 mV ± 1 digit for mV
Standardization Range	: ± 1 pH (Approx)
Temp. Compensation	: 0 to 100° C Dig. Display (Manual)
Display	: 3½-Digit Red LED Seven Segment with automatic polarity & decimal p
Polarization Current	:
Recorder Output	:
Power	: 230V $\pm 10\%$ 50 Hz
Dimension	: 235 (W) X 185 (D) X 85 (H) mm
Weight	: 1.25 Kg (Approx)
Accessories	: Combined Electrode Stand & Clamp

HORIZONTAL SHAKER (RECIPROCATING KAHN'S TYPE)

SHAKER (RECIPROCATING KAHN'S TYPE)				
S.NO.	DESCRIPTION	SPECIFICATION		REMARKS
1.	SHAKING RACK	KAHN RACKS, BOTTLES OR CONICAL FLASKS OF DIFFERENT SIZES CAN BE SHAKEN BY ADJUSTING THE COMPARTMENTS PROVIDED ON THE SHAKING RACK.		FREE - INSTALLATION, DEMONSTRATION & TRAINING AT SITE WITH OPERATING MANUAL. WARRANTY - MINIMUM TWO YEARS FROM DATE OF INSTALLATION SPECIFICATIONS OF THE ITEMS TO BE SUPPLIED BY THE TENDERER (WHETHER SAME OR HIGHER THAN GIVEN SPECIFICATIONS, IF HIGHER, DETAILS TO BE FURNISHED) SHOULD BE QUOTED WITH ALL NECESSARY ACCESSORIES
2.	SPEED RANGE	140 RPM TO 250 RPM		
3.	MOTOR	PMDC HEAVY DUTY GEARED MOTOR FOR CONTINUOUS RATING		
4.	VOLTAGE	TO WORK ON 220/230 VOLTS AC SUPPLY		
5.	PLATFORM SIZE	31" X 17" X 4"		
6.	MATERIAL OF CONSTRUCTION	M.S. SHEET DULY POWDER COATED		
7.	TOP PLAT FORM	M.S. SHEET DULY POWDER COATED AND TOP SURFACE COVERED WITH NON SLIP MAT		
8.	SHAKING	VARIABLE	A. DIGITAL RPM/SPEED METER WITH PROXIMITY SWITCH. B. AUTOMATIC DIGITAL ON/OFF TIMER FOR SHAKING TIME CONTROL	
9.	SHAKING SPEED RANGE	140 RPM TO 250 RPM		
10.	CAPACITY	SHOULD HOLD MORE THAN 50 NO.S OF 100 ML CONICAL FLASK AT A TIME		
11.	PRODUCT SHOULD BE CERTIFIED-ISO/ISI/EC/US/EU. OR EQUIVALENT STANDARDS			

TO BE FILLED BY TENDERER

NAME OF THE MODEL

MANUFACTURER OF THE MODEL EQUIPMENT

YEAR OF RELEASE OF THE

SIGNATURE _____ NAME _____ SEA

SPECIFICATION OF MINI SOIL TESTING LAB

S. No.	Particulars	Remarks
1	Availability of license from ICAR,	Mandatory
2	License number	Mandatory
3	Date of Granting the license	Mandatory
4	Validity of the license	Mandatory
5	Facility to evaluate available organic carbon (OC)	Mandatory
6	Facility to evaluate available Nitrogen (N)	Mandatory
7	Facility to evaluate available phosphorous (P)	Mandatory
8	Facility to evaluate available boron (B)	Mandatory
9	Facility to evaluate available sulphur (S)	Mandatory
10	Facility to evaluate available potassium (K)	Mandatory
11	Facility to evaluate electrical conductivity	Mandatory
12	Facility to evaluate available zinc (Zn)	Mandatory
13	Facility to evaluate pH	Mandatory
14	Lime Requirement Test For Acidic Soil	Mandatory
15	Gypsum Requirement Test For Alkaline Soil	Mandatory
16	Facility to evaluate available iron (Fe)	Mandatory
17	Facility to evaluate available manganese (Mn)	Mandatory
18	Facility to evaluate available Copper (Cu)	Mandatory
19	Facility to evaluate available Calcium (Ca)	Optional
20	Shaker with LCD display with timer and also with battery operated power backup	Mandatory



S. No.	Particulars	Remarks
21	Voltage on which the motor of the shaker is running (Volt) 12V	Mandatory
22	Power Adapter/battery charger for shaker 14.2V 1Amp	Mandatory
23	Shaker Oscillation speed (per minute) 235	Mandatory
24	Dimensions of the shaker (LxWxH) (mm x mm x mm) 270x220x175. Shaker should run by battery in case of power failure.	Mandatory
25	Provision of extra battery	Optional
26	Capacity of the Battery (Vah) 6x2 Volt 4.5Ah	Mandatory
27	Continuous duty cycle of the shaker, Battery Backup Time 5 - 8 hours	Mandatory
28	Protection against Deep discharge of Battery	Mandatory
29	Protection against Over charge	Mandatory
30	AC voltage Range(Volt) 230Volt	Mandatory
31	Load of Mini Soil Testing Lab meter (VA) 14 VA , should run on battery in case of power failure	Mandatory
32	Memory Card Reader/ pen drive for Computer connectivity	Mandatory
33	Hot Plate with thermostat AC voltage Range(Volt) 230 Power Consumption (Watt) 500 or any other heating arrangement recommended by ICAR Institution	Mandatory
34	Thermometer is provided to measure lab temperature in different climatic situations for measuring parameters like pH and EC correctly.	Mandatory
35	Charging from Solar Panel Solar Pv Module Solar Pv Module Wattage (Wp) 10 watt.	Mandatory
36	Thermal printer	Optional