



July 15, 2015

## **INVITATION TO BID**

The Department of Agriculture, Regional Field Office No. 12, Koronadal City through its Bids and Awards Committee (BAC) invites prospective and interested bidders for the following projects, to wit:

**1. Supply and delivery of Laboratory Equipment for Regional Agricultural Feed Analysis Laboratory**  
**TOTAL ABC : Php 5,159,000.00**

**A. Line Item No. 1 : Supply and delivery of 1 unit Fiber Analyzer and 1 unit Fat Analyzer**  
**ABC : Php1,625,00.00**

**a. 1 unit Fiber Analyzer**

Specifications:

- For the determination of neutral detergent fiber (NDF), acid detergent fiber (ADF), and crude fiber (CF) in feeds. AOAC approved procedure BaGa-05 for crude fiber. Simultaneous digestion of up to 24 samples employing Filter Bag Technology (FBT), eliminating the need for a separate filtration set-up. Includes pack of 1000 ES7 filter bags, filter bag holder 101.2, heat sealer 1920, 2 pcs. acetone-resistant marker F08, 3 pcs. desiccant pouch x45, and agitator packing assembly F28.
- ISO certified
- With free installation, dryrun and training
- With annual maintenance and calibration

**b. 1 unit Fat Analyzer**

Specifications:

- Designed to automate the process of fat extraction. Reduces technician variation, increasing precision. Provides an Official Procedure for efficient and economical solvent extractions up to 150 Extractions per day. Microprocessor Controlled with LCD Readout. Solvent Recovery rate of ~97%, Solvent Usage per Sample ~ 0.5 ml. No Vent-hood Required.
- ISO certified
- With free installation, dryrun and training
- With annual maintenance and calibration

Delivery period : 90 calendar days

Delivery site : DA-12 Integrated Laboratory Division, Zulueta Street, Koronadal City

- Cost of Bidding Documents : Php5,000.00

**B. Line Item No. 2 : Supply and delivery of , 1 unit Hot Plate with Magnetic Stirrer ,1 unit Acid & Corrosive Storage Cabinet for Acid & Base, 1 set Mass Calibration Weights, 1 set Kjeldahl Protein digestion- distillation system (1 unit 20 Placer Protein Digestion block, with 1 unit scrubber, 1 unit Automatic Protein Distillation Block with Autosampler and Recirculating Chiller and UPS)**  
**ABC : Php2,904,000.00**

**a. 1 unit Hot Plate with Magnetic Stirrer**

Specifications:

- Hot plate dimension : 12" x 12" ceramic top
- Speed : 1500RPM
- Universal Power Adapter : 220V/60Hz
- Maximum Stirring Volume : 10 liters
- Acid Resistant
- Maximum Temperature : 400 degree celcius
- ISO certified
- With free installation, dryrun and training
- With annual maintenance and calibration

**b. 1 unit Acid and Corrosive Storage Cabinet**

Specifications:

- Class 8 cabinet
- 30 gallon, 2 door, manual-close
- Dimension : 48"W x 8"D x 48"H, Blue
- 3 Adjustable Shelves
- Shelf Capacity : 350lbs
- Warranty on parts : 5 years to 10 years
- With free installation and maintenance
- Standards compliant to : AS 3780 – "The Storage and Handling of Corrosive Substances"
- ISO certified

**c. 1 set Calibration Weights**

Specifications:

- Analytical Precision Weight Set
- Weight Set Range : 200g – 1mg
- No. of pieces : 15
- Capacity : 400g
- Class : Ultra Class Gold/Class 1/Class E2
- Density : 8.03g/cm<sup>3</sup> at 20°C
- Style : Cylindrical with handling knob
- Certificate : NVLAP Accredited/ISO standard
- This class is appropriate for calibrating high-precision analytical balances with a readability as low as 0.001mg.

**d. 1 unit Bench-top pH Meter**

Specifications:

- Universal instrument for measurement of pH
- pH Range : 0-2.0 to 20.0 pH
- Relative Accuracy : +/-0.002
- Automatic Temperature Compensation : 0 to 100°C
- Temperature Range : 30 to 130°C; Temperature Accuracy : +/-0.1
- Display : colored 4.3 inches; Automatic calibration
- Water proof housing
- Power supply : DC9V/10W; AC adapters 220VAC/50Hz
- ISO Certified
- With free dry run and training
- With annual maintenance and calibration

**e. 1 set Protein Kjeldahl Digestion-Distillation System**

**e.1. 20 Placer Protein Digestion Block**

**Specifications:**

- Operating Voltage : 230V ±10%; Freq : 60Hz
- Power consumption : maximum 2300W
- Display : 2 lines LCD
- Temperature control range : 30-450°C
- Resolution Temperature Display : ±1°C
- Average Temperature Accuracy Stability : ±1°C
- Temperature Accuracy absolute : ±7°C at 420°C
- Dimensions (WxHxD) : 472 x 764 x 558mm
- ISO Certified
- With free installation, dry run and training
- With 5 years parts and labor warranty
- With annual maintenance and calibration
- Component : 20 sample tubes 300ml, 1 rack of 20 position, 1 standard suction module, 1 1.5m hose to scrubber, 1 hose connector S19 (ball joint); 1 clamp for hose connector S19, 1 Drip tray, 1 Drip tray holder, 1 Kjeldahl Guide, 1 Condensate bottle, 1 Copper micro 1.65g (1000/box tablets) and UPS

**e.1.1. 1 unit Scrubber**

**Specifications:**

- Quad Scrub (condensation, neutralization, adsorption and reaction with cooling water control)
- Current consumption : 1A
- Voltage : 230V ±10%; Frequency : 60Hz
- Power consumption : 140W
- Pump suction capacity (adjustable) : 50-400mbar
- Degree of protection : IP20
- Overvoltage category : II
- Pollution degree : 2
- Dimension : 347mm(W) x 450mm(H) x 543mm(D)
- Weight : 12.9kg

- ISO Certified
- With free installation, dry run and training
- With 3 years parts and labor warranty
- With annual maintenance and calibration

**e.2. 1 unit Automatic Protein Distillation Block**

**Specifications:**

- Dimension : 458mm (W) x 670mm(H) x 431mm(D)
- Weight : 32kg
- 8.4" color touch screen
- Memory : □1,000,000 results
- Minimal titrator volume : 2µl/step
- Pumps : NaOH, H3BO3, H2O
- Adjustable steam output : 30-100%
- Measuring range : 0.1-200mg N
- Reproducibility (RSD) : <1%
- Recovery : 99.5%; Safety sensors : 3
- RS3232 ports : 2 (balance, autosampler)
- USB ports : 3 (printer, barcode reader, memory stick)
- Power supply : 240V, 60Hz, 2400W with UPS
- Water consumption during distillation : 0.7L/min at 10□C

**e.2.1. With Auto sampler**

- Auto sampler dimension : 505mm(W) x 750mm(H) x 655mm(D)
- Weight : 40kg
- 3 Safety sensor : shield, crash, sample tube detector
- Power supply : 240V, 60Hz, 150W
- 1.5m RS232 communication cable
- 28 sample tubes, 300ml
- 1 rack for 20 x 300ml sample tubes
- ISO certified
- With free installation, dry run and training
- With 5 years parts and labor warranty
- With annual maintenance and calibration

**e.2.2. 1 unit Recirculating Chiller**

**Specifications:**

- Power consumption (max) : 850W
- Supply voltage : 230VAC ±10%
- Frequency : 60Hz
- Dimension WxHxD (mm) : 280 x 400 x 500
- Weight : 29kg; Tank volume : 3L
- Cooling at 15□C : 500W
- Temperature range : Fix + 10□C
- Working range : Fix + 10□C
- Pump capacity : 0.6 bar; Flow rate : 2.5L/min

Delivery period : 90 calendar days

Delivery site : DA-12 Integrated Laboratory Division, Zulueta Street, Koronadal City

- Cost of Bidding Documents : Php5,000.00

**C. Line Item No. 3 : Supply and delivery of 1 unit Analytical Balance, 1 unit Advance Stereo Zoom Microscope, 1 unit Laboratory Furnace and 1 unit Laboratory Drying Oven**  
**ABC : Php630,000.00**

**a. 1 unit Analytical Balance**

**Specifications:**

- Capacity : 220g
- Readability : 0.001g
- With accessories (weights)
- Include USB cable
- Automatic calibration and adjustment
- High Contrast LCD
- Removable glass draft shield
- Platform Material : Stainless steel
- ISO Certified
- With free installation, dry run and training
- With annual maintenance and calibration

**b. 1 unit Advance Stereo Zoom Microscope**

**Specifications:**

- Total magnification : 20X and 40X

- Head : 45° Inclined binocular
- Eyepieces : Wide field WF10X/44
- Objectives : Rotational 2X & 4.5X
- Incident (upper) illuminator : 12V/10W tungsten
- Transmitted (lower) illuminator : 12V/10W tungsten
- Easy illumination mode switch : [upper] [off] [lower]
- Adjustable focus knob tension
- Power supply : 220V
- With digital camera : 2048 x 1536 pixels (3MP)
- With free installation, dry run and training
- ISO Certified
- With annual maintenance and calibration

**c. 1 unit Laboratory Furnace**

Specifications:

- Capacity : 0.65 cu ft (18.4L)
- Electrical : 240V
- Shipping weight : 130lb (59kg)
- Interior dimension : 9"W x 14"D x 26"H
- Control : Digital OTP
- Temperature Range : 100°C to 1100°C
- Display : Simultaneous LED display of actual temp vs setpoint (°C or °F)
- Microprocessor : PID control (proportional, integral, derivative) prevent overshoot
- Hearth plate : materials supports load and prevent damage from spills, removable and replaceable
- Door : Side-hinge door allows for convenient chamber access
- Double wall construction minimizes exterior surface temperature, saves energy and promotes operator safety.
- Controlled heat-up rate eliminates thermal shock to materials
- One (01) year Manufacturer Warranty for parts and labor
- ISO Certified
- With free installation, dry run and training
- With annual maintenance and calibration

**d. 1 unit Laboratory Drying Oven**

Specifications:

- Safety : with alarm flashing/acoustic, alarm limit settable, automatic safety setting
- Fan speed control : 1/10; Exhaust valve mm : 30 x 30
- Ventilation slide : 0-100%, Pot. free alarm output
- Sensor thermo-couple type K; Controller : PID
- Display : LCD
- Shelves : 5 pcs shelves
- Dimension : 434mm (W) x 325mm (D)
- Maximum load/shelf : 20kg
- Permitted total load : 50kg
- Heating up time to 250°C : 50mins
- Heat transfer at 250°C : 460W
- Air changes : 50Hz
- Power : 1430W, 230V, 60Hz
- Exterior dimension : 580mm(W) x 575mm(D) x 550mm(H)
- Interior dimension : 440mm(W) x 345mm(D) x 350mm(H)
- Volume : 53liters; Net weight : 35kg
- Shipping weight : 40kg
- ISO Certified
- With free installation, dry run and training
- With annual maintenance and calibration

Delivery period : 90 calendar days

Delivery site : DA-12 Integrated Laboratory Division, Zulueta Street, Koronadal City

- Cost of Bidding Documents : Php1,000.00

The bidding will be conducted through open competitive procedures using a non-discretionary "pass/fail" criterion as specified in the IRR of RA 9184, otherwise known as the "Philippine Government Procurement Act".

Interested bidders may obtain further information from the Department of Agriculture, Regional Field Office No. 12 BAC Secretariat from 8:00AM to 5:00PM during working days.

A complete set of bidding documents may be secured by interested bidders from the DA-RFO XII BAC Secretariat Office on **July 27, 2015 until 09:00AM of August 06, 2015** upon payment of a non-refundable fee.

**Pre-bid Conference** shall be on **July 24, 2015 at 09:00AM** in the **DA-RFO 12 Conference Room, Zulueta Street, Koronadal City.**

**Opening of Bids** shall be on **August 06, 2015 at 09:00AM** in the **DA-RFO 12 Conference Room, Zulueta Street, Koronadal City.**

**Sealed Bids** must be delivered/submitted to the DA-RFO 12 BAC Secretariat Office **on or before 09:00AM of August 06, 2015;**

**Company's Representatives** must present their **Special Power of Attorney (SPA)** during the opening of the bidding;

**Bids** shall be accompanied by a bid security either of the following schedule:

- 1. Cash or Cashier's/Manager's check issued by a Universal or Commercial Bank  
- 2% of the Approved Budget for the Contract (ABC)**
- 2. Bank Guarantee  
- 2% of the Approved Budget for the Contract (ABC)**
- 3. Surety Bond callable upon demand issued by a surety or insurance company duly certified by the Insurance Commission as authorized to issue such security  
- 5% of the Approved Budget for the Contract (ABC); or**
- 4. Bid Securing Declaration (duly notarized).**

**LATE BIDS WILL NOT BE ACCEPTED.**

The Department of Agriculture, Regional Office No. 12, Koronadal City reserves the right to accept or reject any bid, to annul the bidding process, and to waive any minor defects, without thereby incurring any liability to the affected bidder/s and to accept bid as may be considered most advantageous to the government.

**JIMMY M. OLIVO, PhD.**  
BAC Chairman