



ORISSA UNIVERSITY OF AGRICULTURE & TECHNOLOGY
BHUBANESWAR -751003

No. 315/CAET,dt.12.02.2019

CORRIGENDUM

With reference to Tender call notice no. 1432/CAET, dated 05/09/2018 and rate contract no.1821/CAET, dt.28.11.2018, the revised/corrected rate contract for fermenter (item no.41) and CHNS,O analyser (item no.42) is as follows. All other terms and conditions remain same as per rate contract no.1821/CAET, dt.28.11.2018.

Tender SL No - 41

Item: Fermenter

Name of the Firm	M//s. Borg Scientific
Address of the firm	New No 25, Old No 75, South Jaganatha Nagar, 2 nd Main Road, Villivakkam, Chennai 600049
Email	info@borg scientific.com
Telephone	9840069654
Fax	+91- 4443550982
GSTN	33AAKFB7209C1ZV
PAN	AAKFB7209C
Make	Borg
Model	LF 3i
Technical Specification	<p>Fermenter (5L) made up of stainless steel with 3L working volume, in situ sterilisable including all accessories such as agitation, ports, instrumentation, sensor facility, antifoam controller and chiller to be installed in a turn key basis.</p> <ol style="list-style-type: none">1. Total volume 5L, working volume 3L made up of stainless steel (flange thickness 12mm/ thickness 4mm) including top and maximum operating temperature 150oC.2. Single dry mechanical seal, rotating speed (100-1000rpm), impellers, baffles,3. Ports for pressure gauge, light, air, sample, acid, alkali, inoculum, temperature, sensor, pH, heater and cooling finger.4. Temperature & pH probe, air rota meter, agitator speed controller, temperature controller (1-150°C), pH controller (0-14), 3nos. pumps for acid/alkali/& inoculum, aeration controller and absolute filter.5. Antifoam controller with stainless steel probe for foam sensing.6. Chiller with 5L bath volume, temperature (10-60oC) and in-built magnetic form.7. Warranty: 3years, packaging, transport, insurance and installation (all) should be made by the supplier.
Basic Price of each	Rs.534000/-
Total cost of equipment	Rs.534000/-
Discount	Rs.135500/-
Price after discount	Rs.400500/-
GST@5% on equipment	Rs.20025/-
On Site Delivery price (3 year warranty)	Rs.420525/-

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Tender Sl. No.42

Item: CHNS,O Analyser

Name of the Firm	M/S Elementar India Pvt.Ltd.
Address of the firm	18 th floor,Building No-5Tower –A, DLF Cyber city,Phase-III, Gurgaon-122002, Haryana,India
Email	info@elementar.co.in
Telephone	1246637960/614/62/63/64
Fax	911246637978
GSTN	06AAECE2593D2ZT
PAN	AAECE2593D
Make	ELEMENTAR GERMANY
Model	UNICUBE
Technical Specification	<p>Higher Features In Detection Limits & Analytical Ranges than as given below Fully automated PC controlled CHNS Elemental analyzer for: Solids, Gases, Liquids, Liquid volatile samples, Seawater and marine sediment analyses. Advanced chromatographic separation of gases using temperature individual temperature programmed columns for each element. Furnace temperature should be 800-1800C or more to ensure complete combustion. Analyzer should have auto sampler with capacity of minimum 60-120 samples. It should have a mass flow controller/electronic flow controller for constant flow of carrier gas & sample introduce by ball valve technique for better accuracy of results to avoid the atmospheric nitrogen contamination. Operator selectable choice of working modes of CHNS, CHN, CNS, CN or CHNS O Must have the facility to use both Helium and Argon as carrier gases Automated Gas Saver: Capability of monitoring leakage of gases & automatic wake up of analyzer. Must have the option for automatic shutdown and wake up for reducing furnace temperature defined time and dates as well as reheating and calibration. Detection range : 100 ppm or 1 microgram Run time : < 10 min Combustion temperature: 800-1800 o C Sample feed : 60 to 120 auto sampler Detector : TCD for CHNS Carrier gas : helium or argon Total control and data evaluation through PC Training: Analyser must provide both dynamic and static combustion. System should have the analytical ranges of C: 0.001 – 3.6 mgs or more, H: 0.001 – 1.0 mgs or more, N: 0.001- 6.0 mgs or more, S: 0.001 – 2.0 mgs or more O: 0.001- 2.0 mgs or more Software features: Software should allow: Elemental Ratio calculations, empirical formula calculations, solvent of crystallization, dry basis and heating value. Optimization of combustion conditions background (blank) and calibration (Kfactor) values. Statistical Analysis including Standard Deviation, Variance and Relative Standard Deviation calculations Diagnostic leak checking etc. Additional items to be provided with instrument: Separation columns for CHN, CHNS and Oxygen modes should be provided CHN kit containing chemicals and tubes for running at least 6000 sample CHNS kit containing chemicals and tubes for running at least 1000 samples Oxygen kit containing chemicals and tubes for running at least 4000 samples Kit for handling liquid samples and cups/crucibles for handling liquid samples (requirement: 2000 nos.) Maintenance kit with o-rings and seals Reference materials for CHN and CHNS analysis. Should be supplied with high precision semi micro balance.</p>

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	Application, maintenance and analysis training for two users. Set of high purity (99.999%) Gas cylinders with regulator for carrier gas (2Nos cylinders +1 regulator), combustion gas (2 Nos cylinders +1 regulator) with all connection tubing to the instruments b) Suitable Branded Computer & Laser B/W printer c) Branded 5 KVA UPS with 1 hour backup. It should include batteries along with battery rack and accessories. d) Sample sealing unit and start up kit (includes copper tubings, spatula, gloves etc. 3 years comprehensive warranty
Basic Price of each	€31880/-
Total cost of equipment	€31880/-
Price after discount	€31880/-
Packing, forwarding and insurance charges (if any)	€800/-
CIP price	€32680/-
Local supplies	Rs.585000 + IGST@18%=Rs.105300/-
On Site Delivery price	€32680 (The company have waived customs duty against DSIR certificate, customs clearing charges and local transportation charges) Localsupplies of cylinders, regulators, computer, printer & online UPS with one hour backup= Rs. 585000 + IGST@18%=Rs.105300/- to be added to the onsite delivery price of equipment (€32680)

CHAIRMAN, CENTRAL PURCHASE COMMITTEE and DEAN, CAET