

Corrigendum

Ref: e-Tender ID: 2018 BCKV 150313 1 and Ref. No. RKVY/JGM/020/17-18 Date :18/01/2018

Corrigendum for modified specifications of following instrument of e-Tender ID:
2018_BCKV_150313_1 and Ref. No. RKVY/JGM/020/17-18, dated 18/01/2018

Sl no (as in e-tender 2018_BCKV_150313_1)	Name of items	Specifications
8	Temperature controlled centrifuge	<p>Bench Top Rotor Type: Fixed angle Capacity: 50 ml X 6 Digital Speed Indicator and Timer Maximum Speed 13000 RPM or more Temperature range: -5°C to 40 °C Should have imbalance detection system Should have pre-cooling system Digital countdown timer 0-99 min & Continuous run Programs: 99 System with auto lock facility, with safety for over speed / imbalance / temperature Limit / door detector; Two years warranty Power Supply 220-240V 50 Hz</p>
10	Ultra-pure water purification system (Type-I, II and III) ASTM grade	<p>Prefiltration System: Three stage pretreatment system with 10, 5 & 1 micron spun filters 10" with activated carbon with prefilter 5 µm and hardness stabilizer to remove particles, free chlorine and hardness formers to protect the RO-membrane. Feed Water Conductivity upto 1500 micro Siemens Output Water Quality should be : Flow Rate : 5 Ltrs./Hr. at 25 °C Dispensing Rate : 1.0 L / min. Type 1 Water Quality : 18.2 MΩ- cm at 25 °C Type 2 Water Quality : 1 MΩ- cm at 25 °C TOC : <50 ppb Bacteria : < 1 CFU/ml Endotoxin : <0.005 EU/ml pH : Effectively Neutral It should have dual wavelength UV (185/254 nm) lamp Feed –water: Potable tap water Display: TOC TEMPERATURE, conductivity, volume dispensing, alarm and tank water level indicator. Consumable: Should supply with additional 6 pre-filter set other than the one which included with main system. Must Quote separately for consumables (cartridges, filters etc.) for TWO YEAR for trouble free working. Warranty: For TWO years plus two years extended (total 4 years)</p>
13	CHNS analyzer	<p>Fully automated computer controlled element analyzer capable of rapid quantitative determination of elements viz. Carbon (C), Hydrogen (H), Nitrogen (N) and Sulfur (S) in wide array of organic matrices, soils, feed, plant samples</p>

		<p>etc.applications (Both Macro & Micro analysis with an option of Multi Valve Control) and it should allow to reduce helium gas consumption by switching from helium to nitrogen or argon gas, when the instrument is in Stand-By Mode.Option to add external software controlled functions for automated valve for gas sampling. The system should be upgradable to a FPD detector for trace sulfur analysis and options for coupling of Isotope Ratio Mass Spectrometer (IRMS) system.</p> <p>The instrument should have following features:</p> <ol style="list-style-type: none"> 1. Handle variety of sample types like solid, liquid, volatile and Gas samples 2. It should be Built-in helium and oxygen pressure reducers and gauges preventing air diffusion into the pneumatic circuit, Combustion/reduction furnaces with electronic temperature control offering full compliance with the most demanding safety regulations, Oxygen determination in the same furnace is used in pyrolysis condition, Electronic Flow Control (EFC) of helium or argon carrier/reference gas and oxygen gas. 3. Measuring Range: 0.01% (100 ppm) - 100% for solid samples & 1-10 ppm (low level) for liquid samples (using TCD Detector). 4. Sample size: 0.01 mg to 100 mg or more 5. Furnaces: Maximum temperature of 1100 °C with at least 10-years warranty under standard operational conditions 6. Detector: Maintenance free Thermal Conductivity Detector (TCD) with at least 10-years warranty under standard operational conditions. 7. Analysis time: Less than 7 min for CHN and Less than 10 min for CHNS. 8. Auto sampler: Automatic loading of samples with 30 or more positions in a single tray 9. Software: Window based operating software controlling the instrument operations, recording data, performing calculations, diagnostic recording like leak testing and condition monitoring, and manage calibration procedures 10. Sample Analysis Kit : CHNS kits for 2000 samples analysis should be quoted 11. Gas requirements: Ultra high purity He and O2 Gas cylinder for 3 each, Nitrogen/Argon Gas cylinder for 2 nos. And Regulator for one each (He, O2 & N2/Ar). 12. Gas Purification Panel with Filters for all the gases 13. Branded PC with Laser Jet Printer (B/W) – 01 Set 14. Branded 5 KVA on line UPS with 1 hrs Battery back-up–
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		<p>01 Set</p> <p>15. Branded 2 Ton Split AC – 01 no.</p> <p>16. Consumables & Chemicals:</p> <p>COPPER OXIDE -50 g, QUARTZ WOOL - 5 g, ELECTROLYTIC COPPER -80 g, VANADIUM PENTOXIDE - 1 g, Knurled Screws kit – 3, Universal Tin Containers (set of 100) – 01, Universal Tin Container mega box (set of 1000) – 01, Universal “soft” Silver Containers (set of 100) – 01, Forceps – 01, Spatula for Container Filling, Cleaning Device for Quartz Reactor – 01, Empty Quartz Reactor (set of 2) – 02 Nos.</p> <p>17. Warranty: 3 Years and AMC for 2 years after 3 years warranty.</p> <p>18. Weighing requirement: Semi microgram balance with 0.1 mg readability</p>
14	Temperature controlled Shaker (Bench Top Orbital)	<p>Temperature range: +5 deg to 50°C Temperature accuracy: +/- 0.1°C Shaking Speed Range: 20 – 300 rpm Timer: 30 min --99 Hr 59 min Microprocessor based PID control/ Auto tuning / Calibration Over temperature limiter / Door opening alarm Digital LED display for temperature (0.1 Deg Resolution) Speed, and shaking motion Adjustable fan speeds. Brush less DC motor High velocity fan for rapid thermal recovery and uniformity Platform size 280 x 330 mm (No. of flasks x Volume): 9x250ml, 13x125ml, 30x50ml Load in Tray ≤ 10 Kg Safety features: Self protecting cut off indication System should have logical safety feature Time setting function for automated run/off Door opening alarm Electrical requirements: 230 V, 50/60 Hz. Accessories: Platform for shaker Spring wire Rack Rubber mat and sticky pad. Warranty. 2 Years.</p>

Specification of all other items and terms and conditions of the e-tender ID 2018_BCKV_150313_1 and Ref. No. RKVY/JGM/020/17-18, dated 18/01/2018 remains same.

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