



സീദ്ധ പ്രാദേശിക ഗവേഷണ സ്ഥാപനം
സി.സി.ആർ.എസ്സ്. ചെന്നൈ, ആയുഷ് മന്ത്രാലയം, ഭാരത് സർക്കാർ
പൂജപ്പുര, തിരുവനന്തപുരം

സിദ്ധ ക്ഷേത്രീയ അനുസന്ധാന സംസ്ഥാന

(സി.സി.ആർ.എസ്., ചെന്നൈ, ആയുഷ് മന്ത്രാലയം, ഭാരത് സർക്കാർ ക്കെ അന്തർഗത)

പൂജപ്പുര, തിരുവനന്തപുരം - 695012, കേരള

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दिनांक/Date: 10/01/2018

कोटेशन सूचना / QUOTATION NOTICE

Sealed quotations are invited to effect the supply of the enclosed list of items to this institute. Quotations have to be addressed to the undersigned by super scribing “**Quotation for chemistry equipment**”, to perform the research activities of chemistry aspects of IMR project “Qualitative and Quantitative Analysis of Lead in ‘Lead containing Plants’ – A Scientific validation of Siddha claim” which should reach the institute within 21 days from the date of Quotation notice. Late receipt of quotations will not be entertained and considered. The undersigned reserves every right to cancel the quotation without assigning any reason. For further details, e-mail: srritvm10@gmail.com

भवदीय/Yours faithfully,

Sd/-

प्रभारी सहायक निदेशक (सिद्ध) / Assistant Director In-charge (Siddha)

संलग्नक/Encl.: Annexure A (List of items and their specifications)

सिद्ध क्षेत्रीय अनुसन्धान संस्थान, पूजप्पुरा, तिरुवनंतपुरम
SIDDHA REGIONAL RESEARCH INSTITUTE, POOJAPPURA, THIRUVANANTHAPURAM

List of equipments and specifications

Sl. No.	Name of the item	Specifications	Quantity
1.	pH Meter:	<ul style="list-style-type: none"> • Range: 0 to 14 pH, 0 to 1999.9 mV, Temp. 0 to 100°C • Resolution: 01 pH 0.1 mV Temp. 0.1 °C • Accuracy: 0.01 pH 1 digit mV, Temp 0.10 • Calibration : Auto/ Manual • Storage: Up to 100 samples • Power: 230V 50Hz • Accessories: pH Electrode, Temperature probe, Electrode Stand, Buffer solutions, Dust cover, Manual. 	1
2.	Constant temperature bath	<ul style="list-style-type: none"> • Temperature Stability: $\pm 0.005^\circ\text{C}$ • Temperature Range: -20 to 100°C • High Pump Capacity with External Connections • Adjustable Over Temperature Cut off • 120V Power, 240V Optional • Includes Mounting Bridge for Liter Baths 	1
3.	Chemical balance (5 digit)	<ul style="list-style-type: none"> • Self calibration • 5 digit balance • Capacity: 0.01mg-220gm • Pan size: 110 mm • Linearity: ± 0.01 mg • Repeatability standard deviation: ≥ 0.1 mg • Response time: 12/3 sec • Display: Liquid Crystal Display • Sensitivity against temperature change 	1

4.	Automatic Karl Fischer titrator	<ul style="list-style-type: none"> • Method of Detection: any titrimetric method • Backlit LCD Display: 20 x 4 Line Alphanumeric • Range of Moisture Detection : less than 10 PPM to 100% • Display of Reading: Direct Reading of Moisture in PPM & Percentage (%) of water • Dispenser: Motorized Dispensing for low and accurate measurement of reagent. • Electrode: Dual Platinum Electrode. • Interface: Serial & Parallel Port for PC & Printer attachment. • Stirring Time: 00:00 to 99:00 (Minutes: Second) - Adjustable • End Point Time: 1-99 Seconds, Adjustable • End Point Sensitivity of Moisture Detection: Adjustable • Calibration Reminder Alarm: 0-99 hours • Data Storage: More than 100 Analysis data with corresponding calibration data. • Input: Electrode Connector • Power supply: 230 VAC \pm 10%, 50 Hz 	1
5.	Muffle Furnace	<ul style="list-style-type: none"> • Laboratory model • Max. Temperature: 1100-1200°C • Set point Repeatability: \pm1°C • Set point Accuracy: \pm4°C • Temperature Uniformity: \pm10°C • Digital display and temperature control • Insulation- Ceramic material • Alarm- Audible and visual • Capacity- afford 6-8 crucibles at a time • Electrical supply: 230-240V 50/60Hz 	1
		<ul style="list-style-type: none"> • Temperature range: RT to at least 250°C 	1

6.	Hot air oven	<ul style="list-style-type: none"> • Temperature stability: $\pm 2^{\circ}\text{C}$ • Housing materials: Steel sheet duly powder coated • Interiors: Stainless steel 304 grade heavy gauze to with stand temperature up to 350°C Insulations: High temperature, ceramic blanket • Power consumption: 220/230V AC 50/60 Hz 	
7.	Anti-vibration table	<ul style="list-style-type: none"> • Size: 900 x 900 x 900mm (L x B x H) • Working Platform: 700 x 800 mm (L x B) • Material: Interior and Exterior will be provided with Epoxy Powder Coated Finish • U B C: Under Bench Cupboards will be provided with One Drawer • Table Top: 18 to 20 mm thick well polished G20 Black 	1
8.	Non-magnetic stainless steel weight set	<ul style="list-style-type: none"> • Material: Non-Magnetic Stainless Steel • Density: 7.96kg/dm³ • Magnetic Susceptibility: <0.005 • Nominal value: 1mg-20kg • Shape: 1mg-500mg: Flack, 1g-20kg: cylindrical • Finish: Mirror polish • Standard Packing: Aluminum box 	1
9.	Double distillation unit for water purification	<ul style="list-style-type: none"> • Pre-filter for anti scaling & activated carbon for removal of free chlorine and organics. • With 4L/hr capacity with conductivity 0.1-0.5 $\mu\text{S/cm}$, • Hardness <5ppm • Distillate temperature $50-60^{\circ}\text{C}$, • pH 5-8 Cooling water input for condenser 2lts/min X 2 inputs, • Power 230V, 50/60Hz Single phase, 6KW. 	1

10.	Melting point apparatus	<ul style="list-style-type: none">• Measuring Range of Melting point: Ambient to 300°C• Resolution : 0.1°C• Rate of heating(°C/min) : 0.2,0.5, 1, 1.5, 2 3, 4, 5• Accuracy : +0.5°C upto200°C, +0.8°C from 200°C to 300°C• Heating time (50 to 300°C) : 3 mins• Cooling time(300 to 50°C) : 5 mins• Capillary sample tube size : OD 1.4mm, ID 1mm• Power Supply : 220 V +/-10%, 50Hz, 100 Watt• LCD display	1
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