



GAUHATI UNIVERSITY
Department of Chemistry
GUWAHATI – 781 014

NIQ: Chem/QU/16/03

Date: 01/09/2016

Place: Guwahati

Quotations are invited from the reputed manufacturers/ dealers / suppliers for the supply, installation of the following items in the Department of Chemistry, Gauhati University, Guwahati, Assam from the equipment head of the project under the DST SERB Early Career Research Award [File No. ECR/2015/000227]. The last date of submitting the quotation to the undersigned is 16/09/2016.

Item:

SL No.	Description of the item	Quantity
1.	<p>“miniclave steel” type 1, 10 bar / 200°C, 100ml, Glass System operating conditions min./max. pressure -1/+10 bar min./max. temperature -20/+200 °C Vessel Glass reactor 100ml, max. pressure -1/+10 bar, max. temperature 200 °C Cover plate Cover with union nut and 4 openings 1/4”NPT: N1: for Pt100 N2: for manometer & bursting disc N3: for valve manifold N4: for needle valve with dip tube</p> <p>Spare vessel, type 3, 100ml, 100 bar / 200°C, S.S., “miniclave steel” Vessel Steel reactor 100ml, max. pressure -1/+100 bar, max. temp. 200 °C Accessories - Y-piece (with manometer and bursting disc) - manometer dia. 63mm, 0 to 100 bar - bursting disc 100 bar</p> <p>PTFE Insert for metal vessel, 100ml PTFE insert for vessel and splash protection for cover, for max. 200°C</p> <p>FT903 Immersion Cooler with immersion probe for rapid cooling of liquids</p> <p>Order No. 9650893 Model series FT Series Category Immersion Coolers Working temperature range (°C) -90 ... +30 Temperature stability (°C) ±1</p>	1



	<p>Temperature Display LED Cooling capacity (Medium Ethanol) °C 20 10 0 -10 -20 -30 -40 -50 -60 -70 -80 kW 0.3 0.29 0.27 0.26 0.25 0.24 0.23 0.21 0.18 0.13 0.05 Refrigerant R23, R404A Ambient temperature 5...40 °C Dimensions W x L x H (cm) 38 x 55 x 60 Weight (kg) 50 Cooling of compressor Air Immersion probe 5.6 x 14.0 (H x Ø) cm Connection tube (L) cm 160 Available voltage versions 230 V / 50-60 Hz</p>	
2.	<p>Rotary Evaporator from Buchi</p> <p>Detail technical specification Rotary Vacuum Evaporator with diaphragm vacuum pump and digital vacuum controller and Recirculating Chiller. Rotavapour : Condenser(vertical)Normal glass. Manual lift . Seal made of PTFE composite material, one piece vapor duct.. Speed range: 20-280 rpm , Combi clip for easy fixing and removal of vapor duct. Evaporation flask from 50-4000 ml. can be used without any additional adapter. Surface Area of Vertical Condenser must be 1460 cm². Stop cock for aerating the system and rudimentary regulation of distillation process Complete with 1 liter receiving and 1 liter evaporation flask.(STJ 29/32), operated on 220 V-240 V, 50/60 Hz. CE approval. Dimention of the Rotavapour : 617x898x502 mm. Heating bath: Temp. range 20 °C-95 °C , Display of set and actual temperature with heating on-off. Bath capacity: 4 liters. Max. Flask holding capacity : 4 liters. With integrated carrying handle. Operated on 220-240 V, 50/60 Hz. CE approval. Power Consumption:1700 W. Dimention of the Heating Bath: 285x219x326 mm</p> <p>Diaphragm Pump: PTFE with PEEK head. Final vacuum (absolute) 10 mbar(+/- 2 mbar). Suction volume : 1.5 m³/hr, brushless DC motor, speed around 1280 rpm with sound absorber and integrated gas ballast , operated on 100-240 V, 50/60 Hz. CE approval. It covers the essential needs in vacuum generation. On/off-regulated by the Interface , it is optimally suited to work with the Rotavapor. .Dimention of the Pump : 180x275x210 mm.</p> <p>The Interface is an easy to use that controls the vacuum digitally. It is optimally suited to on/off regulate the Vacuum Pump .Mesurement Range : 1400 – 1 mbar ,Control Range :1100- 1 mbar,Frequency : 50/60 Hz, Display : Digital monochrome , 4.0 inch. Power : 40 W ; Power Consumption : 10 WDimension: 160x105x120 mm,</p> <p>Recirculating chiller :Temp. range : -10 °C to +25 °C , Working Temp. range : +5°C to +25 °C flow rate : 2.5 liters /min, Pump capacity : 0.6 bar ,Cooling power : 300 W at 10 °C , digital display of set & actual temperature . Fitted with castors for easy movement. Tank Volume : 3L Refrigerant : R 134a . operated on 230 V, 50/60 Hz. CE approval.Dimension: 280x500x400 mm, Power Consumption (Max) : 850 W</p>	1

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1/9/2016

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