

ਵਿਸ਼ਾ - ਵਿੱਤੀ ਸਾਲ 2025-26 ਲਈ ਇੱਕ ਕਰੋੜ ਦੀ ਕੈਪੀਟਲ ਗਰਾਂਟ ਲਈ ਮਸ਼ੀਨਰੀ ਅਤੇ ਇਕਉਪਮੈਂਟ ਦੀ

ਡਿਟੇਲ ਭੇਜਣ ਸੰਬੰਧੀ।

ਹਵਾਲਾ - MRSPTU/Accts/2025-26/268 dated 10.06.2025

ਉਪਰੋਕਤ ਵਿਸ਼ੇ ਦੇ ਸੰਬੰਧ ਵਿੱਚ ਮੰਗੀ ਗਈ ਜਾਣਕਾਰੀ ਹੇਠ ਲਿਖੇ ਅਨੁਸਾਰ ਭੇਜੀ ਜਾਂਦੀ ਹੈ।

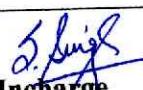
S. No.	Description	Qty.	Specification
01.	Magnetic Stirrer with ceramic plate	02	<p>Seller to furnish supporting document to Buyer on demand regarding CE certification of the product</p> <p>Number of stirring Positions 1</p> <p>Calibration Manual Calibration</p> <p>Type of Drive Motor Brushless Motor AC</p> <p>Display Option/Output Read out Option Digital</p> <p>Magnetic stirrer: with a hot plate</p> <p>Magnetic stirrer Type variable speed</p> <p>Controller type Electronically controlled</p> <p>IP rating or Ingress protection rating 50</p> <p>Speed Control Accuracy of set speed (+/-) (RPM) 1</p> <p>Maximum Stirring capacity per position 5000 millilitre</p> <p>Top plate Material Ceramic</p> <p>User Interface Digital Front Panel</p> <p>Last run memory Yes</p> <p>Warranty on Machine 1 year</p> <p>In built-in multi-step safety system to continuously monitor device operation and protect against damage should the operation exceed the pre-determined</p> <p>Speed Mode Variable Speed</p> <p>External Dimension: Depth 145 millimetre</p> <p>Body Material Die cast Aluminium</p> <p>Top plate Finish Ceramic coated</p>
02.	High Vacuum Pump	02	<p>Type of Pump : Direct drive type of two stage oil sealed rotary vane fitted</p> <p>Number of Stages Two</p> <p>Gas Ballast Fitted with gas ballast</p> <p>Inlet Dust Filter Fitted with dust Filter</p> <p>In-built Anti-suck back Yes</p> <p>Type of Guage to check the ultimate vacuum Digital Pirani Gauge with single gauge head and sensor</p> <p>Displacement/ Nominal pumping speed (m³/hr) 6</p> <p>Pump Rotational Speed at no load (in RPM) 1300</p> <p>Motor power (in HP) 0.5</p> <p>Motor Type Phase (Single), IE-2 standard or equivalent</p> <p>Suction Connections type KF Tee - Unequal, 2 KF25 end flanges and KF10 end flange</p> <p>Spares for Operation to be supplied with product At least Two years Spares for operation: One set of spring & spring pin, one set of oil seals, gasket, O-Ring etc.</p> <p>Displacement/ Nominal pumping speed (m³/hr) 6</p> <p>Ultimate Vacuum without Gas blast (mbar) 1×10^{-4} mbar or more</p> <p>Ultimate Vacuum with Gas blast (mbar) 1×10^{-3} mbar or more</p> <p>Pump Rotational Speed at no load (in RPM) 1300</p> <p>Motor power (in HP) 0.5</p> <p>Motor Type Phase (Single), IE-2 standard or equivalent</p>

S. Singh

		REF ID	Suction Connections type KF Tee - Unequal, 2 KF25 end flanges and KF10 end flange Oil Capacity (ml) 500 milliliter
03.	Analytical Weighing Balance	01	Nominal Rated Load Capacity of weighing scale(in gm 200 gm Resolution 1 mg Close weighing chamber type Glass shield with manual operation [Valid model approval certificate shall be available with the OEM/ Manufacturer/ Seller and a copy to be provided to the buyer on demand] Resolution 1 mg Weighing System Accuracy and Class{As per Governing IS} [Percentage of Rated Output (RO)) \pm 0.05 % of RO (Class 1) Maximum Measurement Time in second 5-10 sec Electronic display LCD/ LED Display with key pad/ touch pad Sensitivity Drift(10 to 30 degree Celsius) +/- 2ppm Safe Overload cell Capacity [Percentage of Rated Load(RL)] 150% of Rated Load Ultimate Overload 200% of Rated Load Linearity \pm 3 times of Resolution Repeatability \pm 1 %
04.	Rotary evaporator	01	Display size 3 inch Display type LCD Control Accuracy +/- 1 degree celsius (water) Heating Bath material SS Heater ,PTFE Bath ,Stainless Steel AISI 316L Heating Bath Capacity 1 liter Timer No Cooling Surface,cm² 1000 Vacuum Controller Integrated No Heating Bath Controller Capillary Tube Lift Motor ,Hand Rotation Speed,rpm 20-280 Vapour Display Temperature Provided No Accessories Vertical Glassware ,Diagonal Glassware ,Heating Bath ,Evaporating Flask ,Receiving Flask ,Foam Brake ,Connector ,Vapour tube ,Distilling Spider ,Protective cover for heating bath ,Refill valve ,Coolant valve ,Vacuum seal ,Dry ice cold finger Smooth Start ,Gradient distillation ,Built-in vacuum controller ,Solvents library ,Vapor temperature ,Auto distillation ,Low Noise ,USB Connector ,Chemical Resistance ,Overheating protection ,Compatible with all range of glassware ,Highly resistant and particularly durable PTFE vacuum seals ,flashing and the display of the residual heat warn of the risk of burns greater than 50 degree Celsius ,ground-free condenser design with grease free ,Stand with clamp to support condenser Warranty 1 year

S. Singh

05.	Recirculating Chiller	01	<p>Type Bench top type model</p> <p>Temperature Controller Digital</p> <p>Type of Pump Centrifugal pump</p> <p>Tank capacity/Reservoir Volume 4 liter</p> <p>Cooling capacity at 10 degree Celsius(watt) 300 Watt</p> <p>Refrigerant Others</p> <p>Pumping Capacity,lpm 27</p> <p>Deionization filter No</p> <p>Warranty 2 year</p> <p>Pump Material Stainless Steel</p> <p>Type of Pump Centrifugal pump</p> <p>Tank capacity/Reservoir Volume 4 liter</p> <p>Noise level, dB (max) 65</p> <p>Heater Capacity (Kw) 2 kiloWatt</p> <p>Cooling capacity at 10 degree Celsius(watt) 300 Watt</p> <p>Pressure (Bar) 1 bar</p> <p>Cooling Capacity frequency 50 Hertz</p> <p>Pumping Capacity frequency 50 Hertz</p> <p>Operating Voltage 230 Volt</p> <p>Number of Phase 1</p> <p>Electric Current (Ampere) 12</p> <p>Frequency 50 Hertz</p> <p>Heater Voltage requirement 230</p>
06.	Conductivity Meter	04	<p>Measurable Conductivity range Auto ranging</p> <p>Maximum of measuring Range for conductivity (mS/cm) 200</p> <p>Number of Ranges (Nos.) 4</p> <p>Resolution (µS/cm) 0.01</p> <p>Type of Temperature Compensation Automatic</p> <p>Display type 3 and half digit LCD display</p> <p>Power supply 220-240 V AC, 50 Hz</p> <p>Accuracy (in +/- %) 1</p> <p>Cell Constant 1 (Adjustable/ selectable)</p> <p>Facility for measurement of absolute cell constant yes</p> <p>Auto Cell Constant measurement Should be available</p>
07.	pH meter	04	<p>Warranty (Year) 2</p> <p>Type Microcontroller Based</p> <p>Accuracy (pH) ± 0.01</p> <p>Temperature Compensation Type Automatic</p> <p>Temperature Accuracy (Degree C) ± 0.3</p> <p>Calibration Up to 2 point</p> <p>pH Range (pH) 0.00 to 14.00</p> <p>Power Requirements 230 V ± 10, 50 Hz AC</p> <p>Modes pH mV- C</p> <p>Parallel temperature indication Yes</p> <p>Temperature Compensation Type Automatic</p> <p>Resolution (pH) 0.01</p> <p>Operating Humidity: RH in (%) 80</p>


 Incharge
 Deptt. of Chemistry
 MRSPTU, Bathinda