

सीएसआईआर—उत्तरपूर्वविज्ञानएवंप्रौद्योगिकीसंस्थान, जोरहाट - 785006 असम, भारत

**CSIR - NORTH-EAST INSTITUTE OF SCIENCE AND TECHNOLOGY,  
JORHAT (ASSAM), INDIA**

This is to inform that there is a change in quantity, in **Sl. No. 1**, in the tender for “**Supply and Installation of Rotary Evaporator with Vacuum Pump, Solvent Recovery Unit and Chiller**” having Tender ID “**2020\_CSIR\_44349\_1**”. The same may be read as:

Sl.No.	Detailed specification of the stores	Quantity
1	<p><b><u>Technical data of rotary evaporator including water bath</u></b></p> <ul style="list-style-type: none"><li>➤ Lift and Display configuration: Motor lift with LCD display</li><li>➤ Heating Capacity: 1300 W or better</li><li>➤ Type of cooling: Vertical double spiral glass coil plastic coated</li><li>➤ Cooling/condensing surface: 1300 [cm<sup>2</sup>] or higher</li><li>➤ Speed range [rpm]: 20 – 280 or better</li><li>➤ Heating temperature range: Ambient to 180 °C (or higher) with <math>\pm 1K/\pm 1</math> °C accuracy</li><li>➤ Heating bath volume: 4 L or higher</li><li>➤ Diameter heating bath: 240 mm or higher</li><li>➤ Bath material: Material of construction of heating bath should be SS/Aluminium/Electro-polished/Teflon coated</li><li>➤ Bath temperature display: Digital display</li><li>➤ Voltage [V]: 230/50Hz or better</li><li>➤ Rotation speed setting/display: Setting by dial/Digital display</li><li>➤ Vacuum seal: PTFE</li><li>➤ Receiving Flask: 1 L or more round style</li><li>➤ Minimum two number of spare vacuum seal/gasket for rotary should be provided</li></ul> <p><b><u>Technical data of pump</u></b></p>	<b>02 Set</b>

Diaphragm-pump made of chemical resistant material and automatic vacuum control

- Suction capacity: 1.3 m<sup>3</sup>/h or higher
- Ultimate suction Pressure: 5.0±2 mbar
- Digital vacuum controller: Required
- Supply voltage: 230/50 Hz

**Technical data of chiller**

- Ideal chiller for bench top rotary evaporator having LCD/LED display
- Temp. Range: -10 °C (or less) to ambient temperature
- Temperature stability: ± 0.5°C or better
- Cooling capacity: 300 watts or higher at 20 °C or comparable
- Liquid capacity: 3 L or more
- All accessory inlet and outlet pipes with heat/cold insulation covering materials should be supplied.

**Technical data of solvent recovery setup**

- A low temperature solvent recovery unit/trap need to be provided so that any solvent vapour released from rotavapour outlet does not enter the pump
- Condensation method should trap any range of organic and inorganic solvents.
- Collection volume minimum 500 mL and Waste liquid collection chamber should be reusable for multiple times
- The recovery unit should be independent of the rotavapor.

Note: The instrument should have ---

- **Minimum 3 (Three) years warranty**
- **Rotavapor, pump and chiller should be from same manufacturer**
- **All electrical connections and plugs for rotavapor, chiller, recovery unit and pump need to be provided.**