

I.K. Gujral Punjab Technical University

Corrigendum

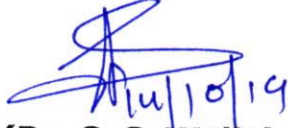
The Pre-bid meeting regarding tender **IKGTU/MC/2019-20/017** for "**Supply, Installation, Commissioning and Maintenance of Laboratory Instruments for Department of Chemical Sciences**" was held on 04-10-2019 in Department of Chemical Sciences.

The suggestions given by the bidders were examined by the committee and after due deliberations the committee has recommended as follows:

1. Revised specifications as per Annexure "A"

Updated specifications will supersede the previously published specifications. Bids with previously published specifications will not be entertained. Rest of the tender document will stand as it is.

All the bidders are required to apply as per the updated specifications.


10/10/19
(Dr. S. S. Walia)
Registrar

Annexure A

Revised Specifications of Rotatory evaporator

Rotatory evaporator

Lift system: Electronic

With heating Bath 20-90°C (Water)

Standard Joints: 29/32 or 29/38 (evaporating flask, vapour duct)

Glass assembly: Diagonal

With safety/Protective coating

Operating voltage: 220-240 V

End stop positioner: to prevent glass breakage and damage to heating pan

Safety stop: Automatic operation stop by power failure, Automatic flask lifting out of heating pan

Adjustment: Adjustable with different flask sizes and for individual applications

Cleaning: Condenser should be handy for easy cleaning

Display: Rotation speed, heating temperature (actual and set both), lift position should be on display for easy monitoring

Parts: The instrument should include all the required parts like glass assembly, vapour duct, vacuum seal, evaporating and receiving flask, required suitable tubing *etc.* for the running of the machine.

Immersion angle 0-45°

Vertical adjustment range 140 mm or better

Limit position detection adjustment range 170 mm (electric lift)

Rotation speed range 10 – 280 rpm

Heating Bath:

Temperature range: upto 95°C

Evaporation flask: 1000 mL

Adjustment precision: +/- 1°C

Operational precision: +/- 1°C

Heating fluid: Water

Overheat protection: Automatic and manual over temperature control

Automatic cut off for overheating and sharp increase

LCD display

Interface/Central control unit

An interface unit is required to control all the process parameters. All the process parameters like rotation speed, heating, cooling, vapour temperature and pressure should be synchronized to optimize the distillation process.

Digitally controlled lift position

Automatic on/off rotation speed

Automatic and manual up/down lift

Display and setting rotation speed

Display and setting bath temperature

Temperature lock

Vacuum pump:

Chemically resistant coated diaphragm vacuum pump. It should be well supported with the rotatory evaporator and other accessories like chiller *etc.* and should be of original company make only.

Control: enabled to be controlled through single central control unit

Suction capacity: 1.8 m³/h

Final vacuum (absolute): 5 mbar (± 2 mbar)

Maximum speed: 1200 rpm or better

Controllable Speed

With trap bottle: to trap particles and droplets

It should be provided with all the accessories which are required for its smooth running mode with all other parts.

he
04/10/19

Sachin Kumar
11-10-2019

CS
4/10/19

Rajeev
04/10/19

ADP
4/10/19

ADP
04/10/19