## Department of Physics University of Kerala, Thiruvananthapuram-695581

TENDER No. - Phy 311/22-23

Date: 13/01/2023

Quotations are invited for the purchase of a magnetic stirrer. Kindly quote the lowest price for the item and the price may include admissible reduction and taxes applicable to educational/ research purposes. The item should be delivered at Department of Physics, University of Kerala, Kariavattom, Thiruvananthapuram without any transportation/ extra charges.

## Technical specifications

Number of stirring positions	
Stirring quantity max. per stirring position (H2O)	201
Motor rating output	9 W
Direction of rotation	right / left
Speed display set-value	LCD
Speed display actual-value	LCD
Speed adjustment	The state of the s
Speed range	Turning knob
Setting accuracy speed	50 - 1500 rpm
Stirring bar length	10 rpm 30 - 80 mm
Self-heating of the set-up plate by max. stirring (RT:22°C/duration:1h)	+13 K
Heat output	850 W
Temperature display set-value	The state of the s
Temperature display actual-value	LCD
Cemperature unit	LCD
leating temperature range	°C / °F Room temp. + device self heating - 310 °C
leat control	Turning knob
emperature setting range	0 - 310 °C
emperature setting resolution of heating plate	1 K
onnection for ext. temperature sensor	PT1000, ETS-D5, ETS-D6
emperature setting resolution of medium	1 K
djustable safety circuit	50 - 370 °C
et-up plate material	Aluminum with ceramic coating
et-up plate dimensions	137 x 137 mm
utomatic reverse rotation	157 X 137 HIIII
termittent mode	
iscosity trend measurement	
mer	
mer display	LCD
nsor in medium detection (Error 5)	LCD
eed deviation (no load,nominal voltage, at 1500rpm + 25 °C)	±2 %
eating rate (11 H2O in H1500)	7.5 K/min

Heat control accuracy of heating plate (at 100°C)	±5 K
Heat control accuracy with ext. PT1000 (500ml H2O in 600ml beaker,40mm stirring bar,600rpm,50°C)	±0.5 K
Heat control accuracy with ETS-D5 (500ml H2O in 600ml beaker,40mm stirring bar,600rpm,50°C)	±0.5 K
Heat control accuracy with ETS-D6 (500ml H2O in 600ml beaker,40mm stirring bar,600rpm,50°C)	±0.2 K
Dimensions (W x H x D)	160 x 85 x 270 mm
Protection class according to DIN EN 60529	IP 42
RS 232 interface	
USB interface	
Voltage	220 - 230 V
Frequency	50/60 Hz
Power input	900 W
Power input standby	1.6 W

The firms who wish to supply the item are requested to submit the sealed quotations to Dr. I Hubert Joe, Department of Physics, University of Kerala, Kariavattom Campus, Thiruvananthapuram, 695581, on or before 25/01/2023, 4.00 pm.

Forwarded by

Prof. V Biju

Head

Department of Physics

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