

# I.K. GUJRAL PUNJAB TECHNICAL UNIVERSITY

(MAIN CAMPUS), KAPURTHALA  
DEPARTMENT OF CIVIL ENGINEERING

IKGPTU/CE/ 509

Date: 12/2/19

**Subject: To upload the quotation call letter from vendors on IKGPTU website.**

The quotations are to be called from the various vendors for the purchase of Environment Laboratory Equipment in the Department of Civil Engineering, Main Campus, Kapurthala. You are therefore requested to upload the list of equipment along with the specifications on the IKGPTU website.

**Submitted for your kind perusal please.**

*Mkaur*  
**Manjit Kaur**  
Senior Assistant

*RJ*  
**Dr. Rajiv Chauhan**  
Head of Department  
Civil Engineering

*JM*  
Deputy Registrar (ITS)

*JM*

Computer Section, IKGPTU  
Receipt No.....3420  
Dated.....18/2/19.....

**PTU**

ਆਈ. ਕੇ. ਗੁਜਰਾਲ ਪੰਜਾਬ ਟੈਕਨੀਕਲ ਯੂਨੀਵਰਸਿਟੀ

ਆਈ. ਕੇ. ਗੁਜਰਾਲ. ਪੰਜਾਬ ਟੈਕਨੀਕਲ ਯੂਨੀਵਰਸਿਟੀ ਜਲੰਧਰ  
I. K. GUJRAL PUNJAB TECHNICAL UNIVERSITY JALANDHAR  
Department of Civil Engineering

Ref. No. IKGPTU/CE/1309Dated 15/2/19

To

Deputy Registrar ITS  
I.K. Gujral Punjab Technical University

**Subject: Quotation for the Environment Lab Equipments for Department of Civil Engineering, Main Campus IKGPTU.**

You are requested to kindly send us the sealed quotation for the below mentioned Environment Lab Equipments. The specification of the Lab Equipment is as below: -

Sr. No	Name of equipment	Specifications	Quantity
1	COD Digester	COD Digester Programmable Temperature Range:35- 160°C Operating Temperature:10 to 45 °C Programmable required Heating Rate: 20 to 150°C Temperature Stability: ± 1°C Fixed Temperature: up to 160oC Power Requirements: VAC The instrument should be equipped with stored digestion programs for COD & TOC Number of vial wells: 5 to 10	01
2	BOD Incubator	Temperature range up to 70 deg C Internal: w323*d310mm height 315mm Internal transparent door External: w425*d420*h610mm Digital temperature Pid controller 2 X adjustable shelves	01
3	Dissolved Oxygen Analyser	Accuracy Dissolved Oxygen: ± 2% reading or 0.1 µg/L, whichever is greater Temperature: ± 0.1 °C Precision Dissolved Oxygen: ± 2% reading or 2 digits Temperature: ± 0.1 °C Sample Conditions Flow: 50 mL/min to 200 mL/min Temperature: 2 °C to 45 °C (35.0 °F to 113 °F) w/ sPraensdsaurrde: D <O4 00 kPa (60 psi, 4 bar) Drain: Atmospheric	01

"Propelling Punjab to a Prosperous Knowledge Society"

**I. K. Gujral Punjab Technical University Main Campus**

Jalandhar-Kapurthala Highway, Kapurthala-144 603

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**PTU**

ਆਈ. ਕੇ. ਗੁਜਰਾਲ ਪੰਜਾਬ ਟੈਕਨੀਕਲ ਯੂਨੀਵਰਸਿਟੀ

**ਆਈ. ਕੇ. ਗੁਜਰਾਲ. ਪੰਜਾਬ ਟੈਕਨੀਕਲ ਯੂਨੀਵਰਸਿਟੀ ਜਲੰਧਰ****I. K. GUJRAL PUNJAB TECHNICAL UNIVERSITY JALANDHAR****Department of Civil Engineering**Ref. No. JKGPTU/CE/309Dated 10/2/19

4	pH meter	Measurement Range: 0.01 µg/L to 9,999 µg/L Two-channel pH/conductivity meter for routine use in the laboratory and on the road – version for connection of intelligent pH electrodes. pH (or mV) and conductivity (or TDS, salinity) and temperatures can be measured in parallel and output to a large colour display with the 914 pH/Conduct meter. Important information such as charge state, user, IDs can be clearly seen at a glance. A PIN-protected expert mode protects against unintentional changes of different parameters. The meter is furnished with an accumulator for mobile use that can be charged Practically anywhere. It naturally also satisfies the requirements of IP67	02
5	Conductivity meter	Two-channel pH/conductivity meter for routine use in the laboratory and on the road – version for connection of intelligent pH electrodes. pH (or mV) and conductivity (or TDS, salinity) and temperatures can be measured in parallel and output to a large color display with the 914 pH/Conduct meter. Important information such as charge state, user, IDs can be clearly seen at a glance. A PIN-protected expert mode protects against unintentional changes of different parameters. The meter is furnished with an accumulator for mobile use that can be charged practically anywhere. It naturally also satisfies the requirements of IP67.	02
6	Nephelometer	Measurement method : Light Scatter Range: 0.1 – 10,000 µg/m <sup>3</sup> Sample Options: 1 minute, Continuous, or 15 min STEL Resolution: 1 µg/m <sup>3</sup> Data logging: 4000 records of STEL, Max, Min and average reading and k-factor Temperature Ranges Operating (0°C to 50 °C)	02
7	Hot air oven	Double wall chambers inner made of SS and outer of Mild Steel sheet duly powder coated with 2½” thick glass wool insulation. Temperature is controlled by an imported thermostat with an accuracy of +/-1°C and working temperature of above 50°C to 250° C and without thermometer.	01
8	MUFFLE FURNACE	Rectangular electric furnace with light weight and fast heating system, the body made of thick mild steel sheet duly powder coated with iron angles. The maximum temperature of 1000°C and working	01

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