



COLLEGE OF ENGINEERING KARUNAGAPPALLY

(Govt. of Kerala, Managed by IHRD)

Thodiyoor P.O, Karunagappally, Kollam -690523, Kerala

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principal@ceknpv.ac.in, cekarunagappally.ihrd@gmail.com



No. P/097/2022/CEK

date: 02/02/2022

QUOTATION NOTICE

Sealed quotations are invited for the supply of the following Equipments for the Mechanical Department of the College.

Item Name	Item Specifications	QTY (Nos)
Impact of Jet on Vanes	<p>Impact of Jet on Vanes</p> <ul style="list-style-type: none">• Target : Flat Plate and Hemispherical Cup, 1 No. each• Nozzle : Material Brass• Jet Enclosure : Made of Acrylic• Counter weights : One set of dead weights.• Water Circulation : FHP Pump, Standard make• Flow Measurement : Using Measuring Tank with piezometer, Capacity 25 Ltrs. (approx.)• Sump Tank : Capacity more than 50 Ltrs.• Stop watch : Electronic.• Control Panel Comprises of :<ul style="list-style-type: none">• Standard make On/Off Switch, Mains Indicator, etc.• Tanks will be made of Stainless Steel.• Instruction manual consisting of experimental procedures, block diagram etc.• The whole set-up is to be well designed and arranged on a rigid structure painted as per industry standards. <p>Warranty: 2 year onsite warranty</p>	1 Nos
Cut model of Centrifugal Pump	<p>Cut model of Centrifugal Pump</p> <p>Cut model of centrifugal pump for demonstration of working of pump. It must be suitable for the lab/class room demonstration purposes.</p>	1 Nos

The envelope containing the quotation should bear the superscription "Quotation for the supply of Impact of Jet on Vanes & Cut model of Centrifugal Pump" for the Mechanical department of the college and should be addressed to the Principal, College of Engineering Karunagappally. Intending quotationists may submit the quotation in their own letter heads.

Last date fixed for receipt of the quotations is at 11 AM on 18/02/2022. Late quotations will not be accepted. The quotations will be opened at 12 noon on 18/02/2022 in the presence of the quotationists, or their authorized representatives, who be present at the time of opening the quotations. All other details can be had from the college website www.ceknpv.ac.in


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No. P/98/2022/CEK

date: 02/02/2022



QUOTATION NOTICE

Sealed quotations are invited for the supply of the following Equipments for the Mechanical Department of the College.

Item Name	Item Specifications	QTY (Nos)
Reciprocating Pump test rig	<p>DRIVE: Stepped pulley reduction V belt drive to run the pump at 3 different speeds.</p> <p>Pipelines: B Class pipes with ISI fittings. Piping systems consists of pipes, pressure relief valve, valves and fitting with Pressure gauges.</p> <p>Pump Motor: A double acting reciprocating pump of 1hp Kirloskar/Suguna/Crompton brand with air vessel to discharge about 20 lpm @ 40 m head with gun metal jet assembly.</p> <p>Glass tube fitting: ISI brand gun metal Pressure & vacuum gauge: ISI brand or equivalent.</p> <p>Valve: Gunmetal valve ISI brand for flow control, Gun metal imported ball valve for tank drain. Gun metal foot valve ISI brand.</p> <p>Sump Tank size: 2000x800x500 mm Measuring tank size: 500x500x600 mm with overflow with gauge glass, scale arrangement and a ball valve Tanks: All tanks are made of 3mm MS Sheet with water repellent FRP leak proof lining Frame work mounting: Mounted on frame work & completely fitted with all the above items as self contained unit suitable for operation without any foundation. Control panel: MS angle stand to house GEM/HPL make main Switch with L&T starter and energy meter.</p> <p>Installation including wiring: The supplier should install the equipment with necessary foundation, if required. The necessary wiring from the electric power point provided in the lab at a maximum distance of 5m.</p> <p>Manual: Self-explanatory Instruction manual with sample calculation</p> <p>Warranty: 2 year onsite warranty</p>	1 Nos

The envelope containing the quotation should bear the superscription "Quotation for the supply of Reciprocating Pump test rig" for the Mechanical department of the college and should be addressed to the Principal, College of Engineering Karunagappally. Intending quotationists may submit the quotation in their own letter heads.

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No. P/99/2022/CEK

date: 02/02/2022


QUOTATION NOTICE

Sealed quotations are invited for the supply of the following Equipments for the Mechanical Department of the College.

Item Name	Item Specifications	QTY (Nos)
Flow through Mouth Piece Apparatus	<p>FLOW THROUGH ORIFICE AND MOUTH PIECE APPARATUS SPECIFICATIONS:</p> <p>Pump set : 0.5 HP, Monoblock, ISI, Make: Kirloskar /CRI/CG/Equivalent Sump tank : 1200 x 300 x 400 mm, SS304 Collecting Tank : 300 x 300 x 400 mm, SS304 Supply Tank : 300 x 300 x 600 mm, SS304 Mouth Pieces : 3 different types of Mouthpieces made of Brass /SS Head Measurement : A Vernier depth gauge with slider attachment (Pointer gauge) Piezometer : A graduated glass tube (graduation in cm) Experimental Capability: Actual Discharge, Co-Efficient of Discharge by Constant/ Variable Head method</p> <p>Set of Orifice: Made of SS (3 nos). Dia of 10 mm, 12 mm & 15 mm Hook gauge: Made of brass with gear arrangement for fine movement, with vernier scale for X and Y axis measurement. Glass tube fitting : ISI brand gun metal Valve : ISI brand for flow control , Gun metal imported ball valve for tank drain . Gun metal foot valve ISI brand Frame work mounting: Mounted on frame work & completely fitted with all the above items as self contained unit suitable for operation without any foundation. Control panel : MS angle stand to house GEM/HPL make main Switch with L&T starter Installation including wiring: The supplier should install the equipment with necessary foundation, if required. The necessary wiring from the electric power point provided in the lab at a maximum distance of 5m. Manual : Self-explanatory Instruction manual with sample calculation. Warranty: 2 year onsite warranty</p>	1 Nos

The envelope containing the quotation should bear the superscription "Quotation for the supply of Flow through Mouth Piece Apparatus" for the Mechanical department of the college and should be addressed to the Principal, College of Engineering Karunagappally. Intending quotationists may submit the quotation in their own letter heads.

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No. P/100/2022/CEK

date: 02/02/2022

QUOTATION NOTICE

Sealed quotations are invited for the supply of the following Equipments for the Mechanical Department of the College.

Item Name	Item Specifications	QTY (Nos)
Flow through Notch Apparatus	<p>FLOW THROUGH NOTCH APPARATUS SPECIFICATIONS:</p> <p>Pump set : 0.5 HP, 1Ph, Monoblock, ISI Make: Kirloskar /CRI/CG/Equivalent Sump tank : 1200 x 300 x 400 mm, SS304 Collecting Tank : 300 x 300 x 400 mm, SS304 Open channel : 1200 x 200 x 200 mm, SS304 Notches : Triangular Notch, Rectangular Notch made of brass sheet Head Measurement : A Depth Vernier scale attachment Piezometer : A graduated glass tube (graduation in cm) Experimental Capability: Actual Discharge, Co-Efficient of Discharge Hook gauge: Made of brass with gear arrangement for fine movement, with vernier scale for X and Y axis measurement . Glass tube fitting : ISI brand gun metal Valve : valve ISI brand for flow control , Gun metal imported ball valve for tank drain . Gun metal foot valve ISI brand Frame work mounting: Mounted on frame work & completely fitted with all the above items as self contained unit suitable for operation without any foundation. Control panel : MS angle stand to house GEM/HPL make main Switch with L&T starter. Installation including wiring: The supplier should install the equipment with necessary foundation, if required. The necessary wiring from the electric power point provided in the lab at a maximum distance of 5m. Manual : Self-explanatory Instruction manual with sample calculation Warranty: 2 year onsite warranty</p>	1 Nos

The envelope containing the quotation should bear the superscription " Quotation for the supply of Flow through notch apparatus" for the Mechanical department of the college and should be addressed to the Principal, College of Engineering Karunagappally. Intending quotationists may submit the quotation in their own letter heads.

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No. P/101/2022/CFK

date: 02/02/2022

QUOTATION NOTICE

Sealed quotations are invited for the supply of the following Equipments for the Mechanical Department of the College.

Item Name	Item Specifications	QTY (Nos)
Pipe friction Apparatus	<p>PIPE FRICTION APPARATUS SPECIFICATIONS:</p> <p>Pump set : 0.5 HP, 1Ph, Monoblock, Make: Kirloskar /CRI/CG/Equavalent</p> <p>Sump tank : 1200 x 300 x 400 mm, SS304</p> <p>Collecting Tank : 300 x 300 x 400 mm, SS304</p> <p>Pipes : 3 different sizes of pipes, 1/2", 3/4" and 1" with pressure tapings at 3 meter distance</p> <p>Head Measurement :Acrylic body Manometer,150-0150 mm with Mercury</p> <p>Piezometer : A graduated glass tube (graduation in cm)</p> <p>Experimental Capability: Actual Discharge, Friction factor</p> <p>Manual : Self-explanatory Instruction manual with sample calculation</p> <p>Glass tube fitting : ISI brand gun metal</p> <p>Valve : valve ISI brand for flow control , Gun metal imported ball valve for tank drain .</p> <p>Gun metal foot valve ISI brand</p> <p>Frame work mounting: Mounted on frame work & completely fitted with all the above items as self contained unit suitable for operation without any foundation.</p> <p>Control panel : MS angle stand to house GEM/HPL make main Switch with L&T starter.</p> <p>Installation including wiring: The supplier should install the equipmentwith necessary foundation, if required. The necessary wiring from the electric power point provided in the lab at a maximum distance of 5m.</p> <p>Manual : Self-explanatory Instruction manual with sample calculation</p> <p>Warranty: 2 year onsite warranty</p>	1 Nos

The envelope containing the quotation should bear the superscription " Quotation for the supply of Pipe friction Apparatus" for the Mechanical department of the college and should be addressed to the Principal, College of Engineering Karunagappally. Intending quotationists may submit the quotation in their own letter heads.

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No. P/102/2022/CEK

date: 02/02/2022

QUOTATION NOTICE

Sealed quotations are invited for the supply of the following Equipments for the Mechanical Department of the College.

Item Name	Item Specifications	QTY (Nos)
Centrifugal pump test rig	<p>CENTRIFUGAL PUMP TEST RIG DRIVE: Fixed speed with step cone pulley arrangement. Pipelines: B Class pipes with ISI fittings. Piping systems consists of pipes, pressure relief valve, valves and fitting with Pressure gauges. Pump Motor: 1hp (2880 rpm) Kirloskar/Suguna/Crompton brand monobloc type centrifugal pump to discharge about 500 lpm @ 10 m head with gun metal jet assembly. Glass tube fitting : ISI brand gun metal Pressure & vacuum gauge : ISI brand or equivalent Valve : Gunmetal valve ISI brand for flow control , Gun metal imported ball valve for tank drain . Gun metal foot valve ISI brand. Sump Tank size : 2000x800x500 mm Measuring tank size : 500x500x600 mm with overflow with gauge glass, scale arrangement and a ball valve Tanks : All tanks are made of 3mm MS Sheet with water repellent FRP leak proof lining or Stainless steel plate. Frame work mounting: Mounted on frame work & completely fitted with all the above items as self contained unit suitable for operation without any foundation. Control panel: MS angle stand to house GEM/HPL make main Switch with L&T starter and energy meter. Installation including wiring: The supplier should install the equipment with necessary foundation, if required. The necessary wiring from the electric power point provided in the lab at a maximum distance of 5m. Manual: Self-explanatory Instruction manual with sample calculation Warranty: 2 year onsite warranty</p>	1 Nos

The envelope containing the quotation should bear the superscription "Quotation for the supply of Centrifugal pump test rig" for the Mechanical department of the college and should be addressed to the Principal, College of Engineering Karunagappally. Intending quotationists may submit the quotation in their own letter heads.

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No. P/103/2022/CEK

date: 02/02/2022

QUOTATION NOTICE

Sealed quotations are invited for the supply of the following Equipments for the Mechanical Department of the College.

Item Name	Item Specifications	QTY (Nos)
Metacentric Apparatus	METACENTRIC HEIGHT SPECIFICATIONS: Sump tank : 800 x 800 x 400 mm, SS304 Ship Model : A hollow ship model made up of SS of size 300x200mm and 100mm height, with balancing or tilting weights and circular weights Angle Measurement: A pendulum & graduated protractor for measuring tilt angle. Experimental Capability: Determination of Metacentric height of Cargo and War Ship Manual : Self-explanatory Instruction manual with sample calculation Warranty: 2 year onsite warranty	1 Nos
Digital Stop Watch (6 NOS.)	Digital stop watch:-digital racer with time, date, alarm and one lap function, 1/100th of a second, provided with start, stop and reset options. Warranty: 1 year onsite warranty	6 Nos
Digital Tachometer (2 NOS.)	Non Contact Tachometer:- Portable digital tachometer having a minimum of 5 digit bright display, powered by battery and housed in a compact casing, Provided with data hold functions and low battery indicators. Durable, precise and accurate over wide ranges of RPM measurements Warranty: 2 year onsite warranty	2 Nos

The envelope containing the quotation should bear the superscription "Quotation for the supply of Metacentric Apparatus, Digital Stop Watch (6 NOS.), Digital Tachometer (2 NOS.)" for the Mechanical department of the college and should be addressed to the Principal, College of Engineering Karunagappally. Intending quotationists may submit the quotation in their own letter heads.

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No. P/104/2022/ CEK

date: 02/02/2022

QUOTATION NOTICE

Sealed quotations are invited for the supply of the following Equipments for the Mechanical Department of the College.

Item Name	Item Specifications	QTY (Nos)
Bernoullis Apparatus	BERNOULLI'S APPARATUS SPECIFICATIONS: Pump set : 0.5 HP, 1Ph, ISI mark, Monoblock, Make: Kirloskar /CRI/CG/Equivalent Sump tank : 1200 x 300 x 400 mm, SS304 Collecting Tank : 300 x 300 x 400 mm, SS304 Header Tanks : 200 x 200 x 500 mm, SS304 Duct : A converging-Diverging duct with varying cross-section , SS / Acrylic Head Measurement : Graduated Glass tube Piezometers at various points of the duct -8 nos Piezometer : A graduated glass tube (graduation in cm) Experimental Capability: Actual Discharge, Total head, Velocity head Pipelines: B class pipes with fittings Valve: SI brand for flow control, Gun metal imported ball valve for tank drain. Gun metal foot valve ISI brand Frame work mounting: Mounted on frame work & completely fitted with all the above items as self contained unit suitable for operation without any foundation. Control panel : MS angle stand to house GEM/HPL make main Switch with L&T starter. Installation including wiring: The supplier should install the equipment with necessary foundation, if required. The necessary wiring from the electric power point provided in the lab at a maximum distance of 5m. Manual : Self-explanatory Instruction manual with sample calculation Warranty: 2 year onsite warranty	1Nos

The envelope containing the quotation should bear the superscription " Quotation for the supply of Bernoulli's Apparatus" for the Mechanical department of the college and should be addressed to the Principal, College of Engineering Karunagappally. Intending quotationists may submit the quotation in their own letter heads.

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No. P/105/2022/CEK

date: 02/02/2022


QUOTATION NOTICE

Sealed quotations are invited for the supply of the following Equipments for the Mechanical Department of the College.

Item Name	Item Specifications	QTY (Nos)
Calibration Test Rig for Orifice meter and Venturimeter	<p>CALIBRATION TEST RIG FOR ORIFICEMETER and VENTURIMETER SPECIFICATIONS: (combined set up)</p> <p>Calibration Test Rig for Orifice meter Pump set : 0.5 HP, 1Ph, Mono block, Make: Kirloskar /CRI/CG/Equivalent Sump tank : 1200 x 300 x 400 mm, SS304 Collecting Tank : 300 x 300 x 400 mm, SS304 or Orifice meter : An Acrylic body Orifice, size:25 x 12.5 mm or Gun metal corner tapping orifice meter made as per ASME standard of size 20mm and 25 mm Head Measurement : Acrylic body Manometer, 150-0-150 mm with Mercury Piezometer : A graduated glass tube (graduation in cm) Experimental Capability: Actual & Theoretical Discharge, Co-Efficient of Discharge Manual : Self explanatory Instruction manual with sample calculation Pipelines : B Class G I Pipe with fittings , flow control gate valves and mercury manometer(With mercury) made of brass Piezometer fittings : ISI brand brass components Pressure gauge : Made of ISI gun metal Glass tube fitting : ISI brand gun metal Valve: Gunmetal valve ISI brand for flow control, Gun metal imported ball valve for tank drain. Gun metal foot valve ISI brand Frame work mounting: Mounted on frame work & completely fitted with all the above items as self contained unit suitable for operation without any foundation. Control panel : MS angle stand to house GEM/HPL make main Switch with L&T starter. Installation including wiring: The supplier should install the equipment with necessary foundation, if required. The necessary wiring from the electric power point provided in the lab at a maximum distance of 5m. Manual : Self-explanatory Instruction manual with sample calculation Warranty: 2 year onsite warranty</p>	1 Nos

The envelope containing the quotation should bear the superscription “ Quotation for the supply of Calibration Test Rig for Orifice meter and Venturimeter” for the Mechanical department of the college and should be addressed to the Principal, College of Engineering Karunagappally. Intending quotationists may submit the quotation in their own letter heads.

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