

## Teme Engineering Equipment Rityaya Almiya

actory /Off : Xireme House, S. No. 37/2, Ashtavinayak Industrial Estate, Parvati Nagar, Next to Pari Robotics, Dhayari-Narhe Road, Narhe, Pune - 411,041 Maharashtra, INDIA



Ref. No.: XEEPL / MSBCOE / 2022-23 / 304

Date: 30th January 2023

To, The Principal, Mahatma Basweshwar Education Society's, MS Bidve Engineering College, Pakharsangvi, Latur, Maharashtra - 413 512 Phone: 02382 - 221 846

Mail: principal@msbecl.ac.in ayazoddin@gmail.com

Sub: Quotation for Fluid Mechanics Equipment for Civil Engineering

Dear Sir,

This is with reference to your Enquiry regarding **Quotation for Fluid Mechanics Equipment for Civil Engineering** / Instruments / Kits. We are pleased to enclose here with our competitive offer with relevant technical specifications and terms & Conditions for your Ready reference. Please go through it, and if you require any more information, communicate us, it is our pleasure to furnish the same to you.

We hope that you would find our offer most suitable and favor us with your valued order at an earliest. In case of any further information / clarification, please feel free to contact the undersigned.

Thanking you & assuring you the best of our services at all times.

Yours Faithfully,

For Xtreme Engineering Equipment (P) Ltd.,

**Authorized Signatory** 

+91 98900 50905

















QUOTATION
Fluid Mechanics/Hydraulics

	Fluid Mechanics/Hydraulics Rate/				
Sr	Description	Qty	Unit in ₹	Total Amount	
No	Measurement of Viscosity of various fluids:	* 34 (123)	mile The State of	www.a.a.a.a.a.a.a.a.a.a.a.a.a.a.a.a.a.a	
	Redwood viscometer No1,		• J		
	Introduction: Redwood viscometer apparatus are widely				
	used in Petroleum Laboratories, Industries, Oil Refineries,		=		
	Educational Institutions, Research Organizations for				
	standardization and determines the Viscosity of Petroleum				
	products, which flows in a newtonian liquid except cut back		•		
	Bitumen's and road oils at the set temperature, They				
	confirm to requirement of IP 70. Redwood Viscometers No. I for liquids having Redwood Flow 20 seconds to 2000			.7	
	Seconds.		1 3	Y	
	General Description & Specifications: The complete			1 1	
	outfit comprises hemmer tone finish, copper/Stainless steel				
1	bath with drain plug, electrical heating arrangement,	01	25,500/-	25,500.00	
	Suitable to operate at 220V, 50Hz AC mains Or gas heating		7 1	M <sub>18</sub>	
	arrangement with silver plated oil cup with precision		. 1	•	
	stainless steel jet, ball value, cover, thermometer clip,				
	stirrer and suitable stand with leveling screws. The sample			***	
	required to be tested, is to fill in to the required level as			0.02 3	
	indicated by the gauge in a cup having a Stainless Steel jet		, n 1		
	fixed in the bottom. The temperature is maintained during		× 1.	- 54 x	
	the test by heating the liquid in a bath surrounding the cup			44.00	
	and the flow time for 50 ml of the sample is measured.		. %	2.11	
	The model comes with Electric Heated Model by Voltage	1	1 1 1		
	variac control and digital temperature indicator. (with all		,	311	
	basic requirements for conducting viscosity experiments)		3 = 13		
	Demonstration of working of different types of valves and pipe fittings:				
	DETERMINATION OF MINOR LOSSES IN PIPING				
	SYSTEMS: Make: XEEPL, Model: FM008				
	A) RANGE OF EXPERIMENTS:				
	Measurement of pressure losses across different kinds of			`.	
	bends, fitting & gate value at varies water flow rate				
	• Calculation of pressure loss coefficient at varies flow rates			,	
	Determination of pressure drop vs flow characteristics		* 3		
	curves for different fittings.		78		
	B) SPECIFICATIONS:				
2	• Sump tank: Made up of PVC resist corrosion, Capacity: 100				
2	Litres (Approx.), Make: Sintex.	01	115,000/-	115,000.00	
	<ul> <li>Mono-block pump: 1-Φ, 1/2 HP, Make: Crompton Greaves.</li> <li>Measuring Tank: 25 Litres, Material: Rota mould, Make:</li> </ul>		, , , ,		
	Aristo.	,h	8		
	Differential manometer.				
	• PIPE ARRANGEMENT: -				
	> Supporting stand structure,				
	Circuit of Two pipes of 25mm & 12.5 mm				
	> Sudden enlargement from 12.5 mm to 25 mm dia				
	Sudden contraction from 25 mm to 12.5 mm dia.				
	Bend & elbow of 12.5mm dia each.				
	> Gate value & Ball value.				
	• Piping: PVC piping with valves.				



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	Indicators.			
NAME OF THE PARTY	Mercury not in our scope of supply	production and production of		***************************************
	Measurement of discharge - Calibration of measuring			
	tank, Use of hook or point gauge:			
	Orifice and Mouthplece Apparatus: Make: XEEPL,			
1	MODEL: FM-04			
	A) RANGE OF EXPERIMENTS			
1	• To determine the hydraulic coefficients such as;			
	Coefficient of discharge, Cd.			
1	Coefficient of velocity, Cv.			
	• Coefficient of contraction, Cc of given orifice & mouthplece.			
	Determination of hydraulic coefficients at different heads.			
	B) SPECIFICATIONS  All Piping Should be in PRP Plumbing material			
	<ul> <li>All Piping Should be in PPR Plumbing material</li> <li>Storage tank: Made up of 100% virgin, FDA grade</li> </ul>			
4	material, resist corrosion, Capacity: 100 Liters.	0.1	40.000/	40,000,00
"	• Mono-block pump: Brass Impeller, 1-Φ, 1/2 HP, ISI	01	48,000/-	48,000.00
	Marked.			
	• Measuring Tank: 29 Liters, Made up of Rotamoulded			
	Material.			
	Constant Head Tank: 25 Liters, Material: PVC			
	Set of Orifice: material: Aluminium			
	• Convergent Divergent Mouthpleces: material: Aluminium.			
	• X-Y- Arrangement: Range: 0-500 mm, Chromlum Plated.			
	Piping: PPR piping with valves.			
	Digital stop watch.			
	MS Structure Frame: Made of M.S. square tubes & sheets,     Welder & Bully and the square tubes as sheets,	14		
- 1	welded &Duly powder coated.  Necessary electrical wiring with on / off switch & indicators.			
.	Study of factors affecting coefficient of friction for pipe			
	flow:			
	COEFFICIENT OF FRICTION FOR PIPE FLOW: Make:	1%		
	XEEPL, Model: FM006			
	A) RANGE OF EXPERIMENTS:			
	Determination of coefficient of friction of			
	> GI pipe:1 inch.			
	> GI pipe: 3/4 inch.			
	<ul> <li>GI pipe: 1/2 inch.</li> <li>To plot relation between pressure loss &amp; flow rates for a</li> </ul>		,	
	particular pipe diameter.			
	B) SPECIFICATIONS:	-		
	Sump tank: Made up of PVC resist corrosion.			
5		01	48,000/-	48,000.00
	<ul> <li>Mono-block pump: 1-Φ, 1/2 HP, Make: Crompton</li> </ul>			, , , , , , , , , , , , , , , , , , , ,
	Greaves.			
	<ul> <li>Measuring Tank: 25 Litres, Material: Rota mould, Make:</li> </ul>			
	Aristo.			
	• Pipes:  → GI: 1" x 1000 mm.		,	,
	→ GI: 3/4" x 1000 mm.			
	> GI: 1/2" x 1000 mm.			*
	Piping: PVC piping with valves & QRC couplings.		1	
	Digital stop watch.			ī
	Differential manometer.			
120	<ul> <li>Frame: Made of M.S square tubes &amp; sheets, welded &amp;</li> </ul>			
	powder coated.			

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		(An ISO 9001 : 2015 Certifi
	<ul> <li>Digital stop watch.</li> <li>Frame: Made of MS square tubes &amp; sheets, welded &amp; powder coated.</li> <li>Mercury in Manometer (optional).</li> <li>Necessary electrical wiring with on / off switch &amp; indicators.</li> <li>With Different Valves:</li> <li>Display board with valve cut sections - Ball valve, plug valve, gate valve, NRV, globe valve, needle valve.</li> <li>VALVE CUT SECTION DISPLAY BOARD FOR TRAINING PURPOSE. DISPLAY BOARD WITH 6 DIFFERENT TYPES OF VALVE CUT SECTIONS, PICTURE AND MARKING VALVE SIZES - 1 INCH TO 2 INCH VALVE TYPES - BALL VALVE, GLOBE VALVE, NRV, PLUG VALVE, NEEDLE VALVE, GATE Wake: XEEPL, Model: ATE301</li> </ul>	
3	Measurement of pressure Piezometer, Manometer and pressure gauges:  PRESSURE AND FLOW MEASUREMENT APPARATUS:  Make: XEEPL, Model: FM002  A) RANGE OF EXPERIMENTS  1. Hydraulic setup  • To measure pressure through different types of manometer's.  • Comparison of pressure from different pressure measuring devices.  • Flow measurement through rotameter & water-meter.  • Comparison of discharge from different flow measurement devices.  2. Pneumatic (Air) setup  • To measure pressure through different types of manometer's.  • Comparison of pressure from different manometer.  B) SPECIFICATIONS  • Storage tank: Made up of PVC resist corrosion.  • Capacity: 100 Ltr. (Approx.), Make: Sintex.  • Measuring Tank: 29 Litres, Material: Rota mould, Make: Aristo.  • U- tube manometer: made in acrylic, to measure the pressure along the orifice meter.  • Single limb manometer: made in acrylic, to measure the pressure along the orifice meter.  • Inclined tube manometer: made in acrylic, to measure the pressure along the orifice meter.  • Inclined tube manometer: made in acrylic, to measure the pressure along the orifice meter.  • Inclined tube manometer: made in acrylic, to measure the pressure along the orifice meter.  • Inclined tube manometer: made in acrylic, to measure the pressure along the orifice meter.  • Inverted tube manometer: made in acrylic, to measure the pressure along the orifice meter.  Simple manometer: made in acrylic, to measure the pressure along the orifice meter.  Simple manometer: made in acrylic, to measure the pressure along the orifice meter.  Simple manometer: made in acrylic, to measure the pressure along the orifice meter.  Simple manometer: made in acrylic, to measure the pressure along the orifice meter.  Simple manometer: made in acrylic, to measure the pressure along the orifice meter.  Simple manometer: made in acrylic, to measure the pressure along the orifice meter.  Simple manometer: made in acrylic, to measure the pressure along the orifice meter.  Simple manometer: made in acrylic, to measu	68,000/- 68,000.00



A	PEPL, Model FM009  ) RANGE OF EXPERIMENTS  Calibration of Venturi meter and Orifice meter.  Determination of coefficient of discharge. (Cd)  Study of flow measurement through venturi meter and Orifice meter.  Determination of actual & theoretical flow rate through venturi meter and Orifice meter.  B) SPECIFICATIONS  Sump tank: Made up of PVC resist corrosion,  Capacity: 100 Liters (Approx.), Make: Sintex.  Mono-block pump: 1- Φ, 1/2 HP, Make: Crompton Greaves.  Measuring Tank: 29 Liters, Material: Rota mould, Make: Aristo.  Differential manometer.  Venturi meter and Orifice meter made in acrylic with pressure point.  Piping: PVC piping with valves.  Digital stop watch.  MS Structure Frame: Made of M.S. square tubes & sheets, welded & powder coated.  Mercury in Manometer. (optional Extra)  Necessary electrical wiring with on / off switch & indicators.  Single Stage Centrifugal Pump Test Rig (VARIABLE SPEED): Make: XEEPL; Model FM019  1. Centrifugal pump suction 1" X discharge 1"/2880 rpm/ 12 mtr head. With swining field type  2. Variable speed motor with control of capacity 1 H.P.  3. Sump tank: 130 Ltrs.  4. Measuring tank: 90 Ltrs With piezo-meter or Rota meter	01	75,000/-	75,000.00
9	<ul> <li>250-2500 for water flow measurements</li> <li>5. Pressure gauges for discharge / suction Head Measurement.</li> <li>6. Digital voltmeter/Ammeter for motor power measurement.</li> </ul>			
2	Motor speed controller by electronic drive	200gm	5,000/-	5,000.00
10	Mercury	2009111	1 2,000	1

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		-			-013 Cerch
Charles de la Ch	Mercury in Manometer ( optional ).  Necessary electrical wiring with on / off switch & indicators.	Section and sections	ALC PROPERTY CLEANING IN		
6	Determination of loss of head due to pipe fittings: Can be done in item No. 02] DETERMINATION OF MINOR LOSSES IN PIPING SYSTEMS: Make: XEEPL, Model: FM008	0:	1 -		0 0.
	Calibration of V notch and rectangular notch:  Calibration of Ogee weir:  Study of Hydraulic jump:	Constitution of the last of th	A CANADA SE SENTINE SE SENTINE SE		
7	TILTING FLUME APPARATUS: 5 Meters Long (CC Type): Total 6Mt. (Including S.S. Tank) Make: XEEPL, Model FM017  A) RANGE OF EXPERIMENTS:  To study flow through open channel.  To study Hydraulic Jump.  To study flow through Venturi-flume.  To study flow through Venturi-flume.  To find out chezy's & mannings constant.  Determination of froudes numbers & study subcritical, critical & super critical flow in open channel.  Study of flow through standing wave flume.  To draw velocity profile curve in open channel.  Study of flow through standing wave flume.  To draw velocity profile curve in open channel.  Clear acrylic sides to give visibility of the working section.  Hand jacking system permits the slope of the channel bed to be adjusted between -1% and +3%.  Service module: Made from Acrylic  Sump tank capacity: 250 liters (Stainless Steel)  Volumetric tank capacity: 60 liters (PVC)  Include a Venturi flume,  Pump: Submersible type 0.5 HP  Motor: 0.37kW split capacitor start with built in overload protection, Speed 2800rpm, Class B insulation, Continuous duty.  Flow meter: Shunt orifice type range 0.5 to 2.5 liters/sec  Vernier level: - 1 x 300mmresolution 0.1mm (digital) .  Comprehensive instruction manual.  Overall dimensions 5.4m (L) x 0.62m (W) x 1.46m(H)  Pitot tube ASME Standard having correction factor -1  Necessary electrical wiring with on / off switch & indicators.  MS Structure Frame: Made of M.S. square tubes & sheets, welded & Duly powder coated  MODELS: Ogee weir, V Notch and Rectangular Notch.  Calibration of orifice, venturi meter, Mouthpiece, Orifice	01	325	5,000/-	325,000.0
8	NOTE: Orifice and Mouth Piece can be done in Sr. No: 04] Orifice and Mouthpiece Apparatus: Make: YEED	01	42,	000/-	42,000.00



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THE RESERVE OF THE PARTY.	Cupies of the Control	40.200		* 1.00 mg. 1 mg. 10 mg.	04-91
Term	- 0				_
LOPM	CX			17 11 15	- 10

		LEC D. F.: Warks
1	PRICES	Our Prices are quoted F.O.R. Ex- Works.
2	FREIGHT	On Actuals, will be extra on your account
3	GST	@18% will extra on your account
4	PKNG & FORWARDING	On Actuals, will be extra on your account
5	ADDITIONAL LEVIES	Octroi & other Govt. levies will be charged extra as and if applicable at the time of delivery
6	PAYMENT TERMS	50 % Advance Along with Confirmed technical specifications & Purchase Order & 50% against Delivery of Goods before dispatch.
7	DELIVERY PERIOD	In approximately <b>04-06 week</b> from the date of receipt of your firm order Along with Advance Payment.
8	VALIDITY	90 Days
9	WARRANTEE	12 months from date of supply of the Equipment. It covers manufacturing Faults, defects. Except All the heating Elements, Electrical, Plastic Parts which are not warranted.
10	AFTER SALES SERVICE	We Assure you the best service after sales to you
11	JURISDICTION	In case of legal, the matter will be subject to Pune Jurisdiction only.
12	FORCE MAJOR	We shall not be liable for any delay in delivery by Govt. legislation, War, National Defence Activity, Fire, Strikes, Work stoppage, Transportation delays, Material Scarcity, Act of God or any other reason beyond our control.
13	MODE OF DISPATCH	By Rail / By Road
14	ROAD PERMIT	If Required, will be Supplied by you with purchase order
15	MODE OF PAYMENT	Strictly by DD/RTGS/NEFT/ECS Only.
16	NOTE	<ul> <li>Goods once sold will not be taken back in any circumstances.</li> <li>The Government / RTCC / MSME / NABL Certified calibration certificates can be provided at extra cost the same should be mentioned clearly in PO.</li> <li>Unloading, placement of machine, civil work if any shall be arranged by the buyer.</li> </ul>
17	GST TIN:	27AAACX1658E1ZD
18	CIN	U29130PN2014PTC152672
19	TAN	PNEX00128C
20	IEC No.	3114025731
21	PAN NO	AAACX1658E
22	BANK NAME & BRANCH	STATE BANK OF INDIA, Dhayarl, Pune-411041
23	ACCOUNT NO.	36571844992
24	IFSC CODE	SBIN0017878
	****	

## GST NO- 27AJGPG9140A1ZL CONTACT NO: 9823269098

	gauge or pointer gauge			
10	Calibration of measuring tank using hook		48000/-	
9	Red wood viscometer		38000/-	
		Measuring tank – 400 x 300 x 300mm sump tank – 900 x 400 x400 mm	1000001	
		Manometer. iii) Sensitive Manometer. iv) Pressure Gauge. v) Vacuum Gauge		
8	Pressure measurement Apparatus	Single well Manometer. ii) Differential	78000/-	1
		horizontal guide bar for sliding weight & pointer hung from a hook. 3) Scales for measuring displacement of sliding weight & pointer		
7	Metacentric height of ship model	Water tank 700 mm. x 700 mm x 300 mm. heights with fibre lining inside. 2) Ship model 300 mm. x 150 mm. with a	28000/-	!
		8.5mm 5) Plates of shape. a) 600 inclined. b) Curved plate. C) FLATE 6) Measuring tank – 400 x 300 x 300mm 7) sump tank – 900 x 400 x400 mm.	00000/	
		mechanism & dead weight to measure the force. 3) Measuring tank 400x300x300mm 4) Nozzle diameter-	Ė	
6	Impact of jet Apparatus .	Circular box one leak proof of transparent side. 2) Differential lever	74,000/-	1
		expansion1/2"to 1"d) Sudden contraction-1" to 1/2" 3)Differential manometer. 4)Flow control valve. 5)Measuring tank – 400 x 300 x 300mm 6) sump tank – 900 x 400 x400 mm. 7) ½ HP MONOBLOCK PUMP		- 1
5	Losses In pipe fitting apparatus	1) Basic piping 1" GI piping with brass valve 2)Pipe fitting. a) Pipe elbow b) Pipe bends c) Sudden	68000/-	
		stop watch. 5) Measuring tank – 400 x 300 x 300mm 6) sump tank – 900 x 400 x400 mm. 7) ½ HP MONOBLOCK PUMP	C0000/	,

GST NO- 27AJGPG9140A1ZL CONTACT NO: 9823269098

Ref: JBE/QT/145/2022-23

DATE: 03/02/2023

To,

Principal, M.S.Bidave Engineering College Latur, Maharashtra

Sub: Quotation for Fluid Mechanics Lab

Sr No	Particular's	Specification	
	Heleshaw Apparatus	Specification	Price
		1. Visual observation of the flow patterns about: 1. Square Model. 2. Triangular Model. 3. Circular Model. 4. Aerofoil Model. 5. Oval/Eye Shaped Model. Many more such models can be made	24000/-
	Bernoulli's Theorem Apparatus	Flow channel 750mm love	64000/-
		transparent acrylic. 2) Supply with flow control valve Brass material. And GI 1 inch Piping. 3) Manometric tubes fixed over the flow channel. 4) Measuring tank. =400x300x300mm MS FRP. 5Sump tank. = 900x400x400mm.MS FRP 6)1/2 H.P. pump's marked 7) Summer to Supply with	0 1000)-1
	Reynolds Apparatus	pump's marked 7) Supply tank is fitted on heavy pipe frame. 8) Stop watch.  1) Acrylic tube (transparent) 25 mm OD of suitable length. 2) Sump tank of	42,000/-
		die needle. 3) Flow seek die tank with	
	Pipe Friction Apparatus	measuremen a) 29 mm, 22 mm.& 17mm. diameter G.l. Pipe length of mi	4,000/-
		control valve. 3)Differential manometer. 4)Measuring tank and	

GST NO- 27AJGPG9140A1ZL CONTACT NO: 9823269098

		scale. 4) Measuring tank- 300 x 400 x400mm FRP coating or SS 5) sump tank – 900x 400x 400mm- FRP coating OR SS 5) Stop watch. 6) ½ HP Pump		
15	Centrifugal Pump test rig	1"x1" size,(Kirloskar make ) with variable speed D. C. motor & speed controller. Sump tank: 900X400X400MM FRP coating Measuring Tank: 400X400X400MM. FRP coating Energymeter- for motor input measurement. Pressure & vaccum gauge- for measurement of head. Stop watch. On/Off Switch	88,000/-	

### TERMS AND CONDITIONS:

1) PRICES: INCLUDING ALL SERVICES AND TRANSPORTS

2) TAXES : 18 % GST CHARGE ADDITIONAL.

3) VALIDITY OF QUOTATION : 60 DAYS

4) PAYMENT: 100% AGAINST PERFROMA INVOICE

5) DELIVERY PERIOD – 2 MONTH

THANK YOU

J.B. ENGINEERING.

# GST NO- 27AJGPG9140A1ZL CONTACT NO: 9823269098

11	Notch Apparatus	
	i paracus	Water storage tank 900X400X400MM 67000
		FRP coating 2) Notches: 60° included
		angle 'V' notch / transmitted
		angle 'V' notch/ trapezoidal /
		rectangular in brass material. 3) Notch
		4) Wiedsuring tank -400 v200
	1	
		inedsurement 6) cum i
12	Hydrauli	inch Piping. 7) ½ hp self priming
	Hydraulic jump and calibration of ogee wear (tilting flume – 4 m/sm.)	
	wear (tilting flume – 4 m / 6m )	monoblock pump ISI marked On/Off  Technical Details: A thurt and the second of the sec
		c/s 200x300 mm s and a liveraulic flume of dmgt
		or (optional long) or 6000 6000
		transparent wind length with
		1000 mm length on either sides of
		upstream and wall's sales one at
		uownstream = 1
		change of the street jack for
		Sump table of the flume A
		Supply table Capacity
13	Calibration	arrangement waves damning
	Calibration of venturi meter and orifice mete	Centrifugate - ""F Or 3 hp
	and office	SPECIFICATION OF THE SPECIFIC ATTENTION OF T
		With brace (10.2) Basic piping 4"
		dia- 22mm throat- 12.5 mm 4)  58,000/-
		Control val
1		1 FRP coating and X 300 x 300
4	Orifice and Mouth Piece apparatus	
	riece apparatus	MONOBLOCK PUMP
		Main supply tank FRP coating or SS with orifice & mouthpieco fav.  Arrange
		with orifice & mouthpiece fitting  arrangement. Diameter of
		Wildippmont =   Picce lifting   1 00 1111/
		mouthpies of Diameter of
		mouthpiece 8.5mm. Nozzle-25mm.
		&50mm length. 3) Tracer pointer with
		Fortier with



# SUPERTECH EQUIPMENTS

MANUFACTURER AND TRADERS OF ENGINEERING LAB EQUIPMENTS

OFFICE AND FACTORY: J-17/1/2 MIDC KUPWAD. TAL-MIRAJ.DIST-SANGLI. (M.S).

Email - <a href="mailto:supertechequ@gmail.com">supertechequ@gmail.com</a> Web-<a href="mailto:www.supertechequipments.com">www.supertechequipments.com</a> CONTACT - Mr. A.B.Ghatge 7620701314. GST NO- 27BBRPG1100L1ZR.

An ISO 9001:2015 Certified company

				49 000/-
Bernoulli's Theorem Apparatus  1) Flow channel 750mm long, transparent acrylic.  2) Supply with flow control valve Brass material.  And GI 1 inch Piping.  3) Manometric tubes fixed over the flow channel.  4) Measuring tank. =400x300x300mm MS FRP. 5Sump tank. = 900x400x400mm.MS FRP 6)1/2 H.P. pump.ISI marked 7) Supply tank is fitted on heavy pipe frame. 8) Stop watch. SERVICE REQUIRED: - 1)Suitable Water supply. 2)Suitable floor space2m.x2m. 3) On/Off Switch with LED	The state of the s	1	38,000/-	48,000/-
Reynolds Apparatus RANGE OF EXPERIMENT:-  1) To determine the Reynolds number & hence the type of flow either laminar or turbulent.  2) To determine upper & lower Reynolds number & velocities.  SPECIFICATIONS:-  1) Acrylic tube (transparent) 25 mm OD of suitable length.  2) Sump tank of 400X400X700 mm size & die tank with die needle.  3) Flow control valve.  4) Measuring Flask & stop		1	21,000/-	31,000/-
watch for flow measurement.  Pipe Friction Apparatus RANGE OF EXPERIMENTS:- A) To determine coefficient of friction for pipes. B) To plot relation between pressure loss and flow rates for a particular pipe diameter.  SPECIFICATIONS:- 1)Three pipes of		1	36,000/-	46,000/-

SUPER TECH

MANUFACTURER AND TRADERS OF ENGINEERING LAB EQUIPMENTS

OFFICE AND FACTORY: J-17/1/2 MIDC KUPWAD. TAL-MIRAJ.DIST-SANGLI. (M.S). Email - supertecheqp@gmail.com Web- www.supertechequipments.com

CONTACT - Mr. A.B.Ghatge 7620701314. GST NO- 27BBRPG1100L1ZR.

Quotated To, Principal, M.S.Bidave Engineering College PO Box No 112 Barshi Road Latur 413512 Maharashtra

14/2022/23
31/01/2023.
31/03/2023.
Email

Quotation

9001

Certi

compa

2				
FM lab		,	and Merchin	
SR NAME OF EQUIPMENTS NO	Image	QTY	PRICE MS Tanks Price	SS 304 tank
Heleshaw Apparatus SPECIFICATIONS: Test Channel: White side acrylic plates, both smooth on test side, fixed in rigid framed structure. Nominal Dimensions: 600 mm Long x 250 mm wide app. Depth of Channel can be varied by using different thickness models of rubber to some extent Dye container with small series of holes to facilitate proper flow of the dye.  EXPERIMENTS: 1. Visual observation of the flow patterns about: 1. Square Model. 2. Triangular Model. 3. Circular Model. 4. Aerofoil Model. 5. Oval/Eye Shaped Model. Many more such models can be made and tested		1	16,000/-	

SUPER TECH

# SUPERTECH EQUIPMENTS

## MANUFACTURER AND TRADERS OF ENGINEERING LAB EQUIPMENTS

OFFICE AND FACTORY: J-17/1/2 MIDC KUPWAD. TAL-MIRAJ.DIST-SANGLI. (M.S).

Email - <a href="mailto:supertechequ@gmail.com">supertechequ@gmail.com</a> Web-<a href="mailto:www.supertechequipments.com">www.supertechequipments.com</a> CONTACT - Mr. A.B.Ghatge 7620701314. GST NO- 27BBRPG1100L1ZR.

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transparent side.  2) Differential lever mechanism & dead weight to measure the force.  3) Measuring tank400x300x300mm  4) Nozzle diameter-8.5mm  5) Plates of shape.  a) 600 inclined. b) Curved plate. C) FLATE 6) Measuring tank – 400 x 300 x 300mm  7) sump tank – 900 x 400 x400 mm.  8) ½ HP MONOBLOCK PUMP				
Metacentric height of ship model SPECIFICATIONS: -  1) Water tank 700 mm. x 700 mm x 300 mm. heights with fibre lining inside.  2) Ship model 300 mm. x 150 mm. with a horizontal guide bar for sliding weight & pointer hung from a hook.  3) Scales for measuring displacement of sliding weight & pointer.	The state of the s	1	20,000/-	31,000/-
Pressure measurement Apparatus This is a board mounted model which demonstrates various types of pressure Measurement devices used in common practice. The devices incorporated are i) Single well Manometer. ii) Differential Manometer. iii) Sensitive Manometer. iv) Pressure Gauge. v) Vacuum Gauge Measuring tank – 400 x 300 x 300mm sump tank – 900 x 400 x400 mm. ½ HP MONOBLOCK PUMP		1	42,000/-	54,000/-
Viscosity of various fluids (Red wood viscometer)	•	1	28000/-	-
Calibration of measuring tank using hook gauge or pointer gauge	Flow control valve. Hook gauge Measuring tank – 400 x	1	25000/-	35,000/-



# SUPERTECH EQUIPMENTS

MANUFACTURER AND TRADERS OF ENGINEERING LAB EQUIPMENTS

OFFICE AND FACTORY: J-17/1/2 MIDC KUPWAD. TAL-MIRAJ.DIST-SANGLI. (M.S).

Email - <a href="mailto:supertecheqp@gmail.com">supertechequipments.com</a> Web- <a href="www.supertechequipments.com">www.supertechequipments.com</a> CONTACT – Mr. A.B.Ghatge 7620701314. GST NO- 27BBRPG1100L1ZR.

An 9001 Certil Compa GUPER

a) 29 mm, 22 mm.& 17mm. diameter G.I. Pipe.Length of pipe 1 m. 2)Flow control valve. 3)Differential manometer. 4)Measuring tank and stop watch. 5) Measuring tank – 400 x 300 x 300mm 6) sump tank – 900 x 400 x400 mm. 7) ½ HP MONOBLOCK PUMP 8) On /Off switch with LED indicator			
Losses In pipe fitting apparatus  1) To determine loss of head due to sudden contraction.  2) To determine loss of head due to sudden enlargement.  3) To determine loss of head in an elbow.  4) To determine loss of head in a bend.  SPECIFICATIONS:-  1) Basic piping 1" GI piping with brass valve  2) Pipe fitting. a) Pipe elbow b) Pipe bends c) Sudden expansion1/2" to 1"d) Sudden contraction-1" to 1/2"  3) Differential manometer.  4) Flow control valve.  5) Measuring tank - 400 x 300 x 300mm  6) sump tank - 900 x 400 x400 mm.  7) ½ HP MONOBLOCK PUMP  8) On /Off switch with LED indicator	1	37,000/-	47,000/-
Impact of jet Apparatus. RANGE OF EXPERIMENTS:- To study the impact of jet on various types of plates & to measure impact Force SPECIFICATIONS:-	1	38,000/-	48,000/-
1) Circular box one leak proof of		1	1

SUPER TECH

# SUPERTECH EQUIPMENTS

MANUFACTURER AND TRADERS OF ENGINEERING LAB EQUIPMENTS

OFFICE AND FACTORY: J-17/1/2 MIDC KUPWAD. TAL-MIRAJ.DIST-SANGLI. (M.S).

Email - <a href="mailto:supertechequ@gmail.com">supertechequ@gmail.com</a> Web-<a href="mailto:www.supertechequipments.com">www.supertechequipments.com</a> CONTACT - Mr. A.B.Ghatge 7620701314. GST NO- 27BBRPG1100L1ZR.

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1	34,000/-	44,000/-
1	34,000/-	1 44.000/-
1	37,000/-	47,000/-



# SUPERTECH EQUIPMENTS

## MANUFACTURER AND TRADERS OF ENGINEERING LAB EQUIPMENTS

OFFICE AND FACTORY: J-17/1/2 MIDC KUPWAD. TAL-MIRAJ.DIST-SANGLI. (M.S).

Email - <u>supertecheqp@gmail.com</u> Web- <u>www.supertechequipments.com</u> CONTACT - Mr. A.B.Ghatge 7620701314. GST NO- 27BBRPG1100L1ZR.



	300 x 300mm sump tank – 900 x 400 x400 mm. ½ HP MONOBLOCK PUMP On /Off switch with LED indicator			
Notch Apparatus  ANGE OF EXPERIMENTS:- To determine coefficient of discharge through 1)60 0  'V' notch 2) Rectangular notch. 3)  Trapezoidal notch SPECIFICATION:- 1)Water storage tank — 900X400X400MM FRP coating 2) Notches: 60° included angle 'V' notch/ trapezoidal / rectangular in brass material. 3) Notch interchanges arrangement. 4)Measuring tank -400x300x300 5) Pointer depth Gauge for H measurement 6) Supply with flow control valve. Brass material And GI 1 inch Piping. 7) ½ hp self priming monoblock pump ISI marked On/Off Switch with LED Indicator		1	36,000/-	46,000/-
Hydraulic jump and calibration of ogee wear (tilting flume – 4 m /6m/8m) Technical Details: A hydraulic flume of c/s 200x300 mm & 4000 mm or 6000 or (optional length) length with transparent window on either sides of 1000 mm length. Sliding gates one at upstream and other at the downstream side. Screw jack for change of the slope of the flume. A Sump tank of sufficient capacity. Supply tank with waves damping arrangement. A 2 H.P. or 3 hp centrifugal Monoblock pump. A Orifice meter with manometer to measure the discharge. Inlet/throat dimensions: 50/25 mm respectively. Trolley with point gauge for level measurement. Models supplied: A) Weirs- i) Sharp		1	4m – 2,35,000/- 6 m – 3,25,000/-	4m – 2,90,000/- 6m 3,95,000/-



## SUPERTECH EQUIPMENTS

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Email - <a href="mailto:supertecheqp@gmail.com">supertecheqp@gmail.com</a> Web- <a href="mailto:www.supertechequipments.com">www.supertechequipments.com</a> CONTACT - Mr. A.B.Ghatge 7620701314. GST NO- 27BBRPG1100L1ZR.

An ISO 9001:2015 Certified company

### **TERMS AND CONDITIONS:**

i .			
. •	Price	:	Price is FOR Institute
•	TAXES	:	18% GST Extra Applicable Under HSN code – 9023.
•	Payment terms	:	50% Advance 40% Before Delivery And remaining 10% After Satisfy Installation
•	Delivery Timing	:	4 to 8 Weeks from The Date OF PO with Advance
•	Warranty	:	12 month: apply Only manufacturing defect under working
•	Transport	:	Including
•			Including
•	Unloading	:	Unloading Of material Is and institute responsibility or customer side

With Regards

For- Supertech Equipments



Sangli (Maharashtra)



# M.B.Education Society's M.S BIDVE ENGINEERING COLLEGE, LATUR-413 531(Maharashtra) CIVIL Engineering Department

Comparative Statement for Purchasing Fluid mechanics Lab Equipments in CIVIL Department.

		. 9	∞	Ţ.	7	6	5	4	0	υ	2	۱ ۱	۱ -	Sr.No.
· Crai		Notch apparatus	Centrifugal Pump Test Rig	veillalilleter and Orlficemeter apparatus	Vanturimotornal Des	Study of Hydraulic lump (4m)	Pipe Friction apparatus	Orifice and Mouthpiece apparatus	rressure and flow measurement appratus		Determination of losses in pipes	iviedsurement of Viscosity of Fluids		Description of Required Items
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7,46,500.00	:	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	75.000.00	42,000.00	3,25,000.00	48,000.00	40,000.00	40 000 00	68,000.00	00.000,61,1	1 15 000 00	25,500.00		Atreme Engineering Equipment Pvt. Ltd. Pune
6,31,000.00	46,000.00	27,000.00	57 000 00	44,000.00	2,90,000.00	46,000.00	47,000.00		54,000.00	47,000.00			Quote	Supertech Supert Equipments, Equipn Sangali (SS 304 Tanks) Tanks)
5,33,000.00	36,000.00	48,000.00	40000	34,000.00	2,35,000.00	36,000.00	37,000.00		42.000.00	37,000.00	, , , , ,	28.000.00	<b>Quoted Price</b>	Supertech Equipments, Sangali (MS Tanks)
9,36,000.00	67,000.00	88,000.00	00.000.00	58 000 00	4,10,000.00	64,000.00	65,000.00	70,000.00	78 000 00	68,000.00	00,000.00	38 000 00		J.B. Engineering, Sangli
		٠									•			

Terms & Conditions  GST Octrol Packing & forwarding Transportation	18% Extra Extra	18% Extra Extra Including	18% Extra 18% extra  Extra Including Including	18% extra Including Including
Packing & forwarding	Extra	Including	Including	=
Payment Term	50% advance 50% advance 50% advance 40% before 50% against delivery 10 delivery installation	% 6	50% advance 40% before delivery 10 % after installation	70% advance 30% at the time of delivery.
Delivary period	within 04 -06	04 to 08 week 04 to 08 week 02 Months	04 to 08 week	22
	01 Year	01 Year	01 Year	
Walranty Validity of Quotation	90 days	:		-
Validity of decement				

Note: The order can be issued to SUPERTECH EQUIPMENTS Sangll. on the basis of the quality, functionability and

basic price of the machine as given in the quotation with wooden packaging. Hence it is decided to purchase the After a telephonic discussion with SUPERTECH EQUIPMENTS Sangli., he is offered a 15 % extra discount on the durability of the machine compared to the other supplier.

same.

Lab In-charge

H.O.D. Mech Enge Dept.

H.O.D. Electrical Engg Dept.

H.O.D. Electronics Engg Dept.

H.O.D. Civil Engg Dept.

Page 2 of 2

Shri Mahatma Basweshwar Education Society's



# M.S. BIDVE ENGINEERING COLLEGE

(Approved by AICTE, New Delhi & DTE, Mumbai, Affiliated to Dr. Babasaheb Ambedkar Technological University, Lonere) P. O. Box No. 112, Barshi Road, Latur - 413 531 (Maharashtra)

'NAAC' Acreditated

DTE Code: EN 2129

Estd: 1983

Prof. B.V. Dharne

M.E.Mech.(Cad/cam)

Principal

Date: Date: 06:04:202

To, SUPER TECH EQUIPMENTS, J-17/1/2 MIDC KUPWAD. TQ-MIRAJ DIST-SANGLI

Subject:- Purchase Order for Fluid Mechanics Lab Equipments Ref:- Quotation No. STE/QT/114/2022/ 23 Dated 31/01/2023 Dear Sir,

ation dated 31/01/2023, you are requested to supply the following particulars to the college at the earliest.

Wi	ith reference to your quotation dated 31/01/2023, you are requested to supply the solu			PER TECH EQUIPMENTS, Sangli With (SS 304 Tanks)				
Sr.No.	Description of Required Items	Qty	Quoted Price (In INR)	Discount Price (In INR) (15% discount on the basic price)				
	Determination of losses in pipes	1	47,000.00	39,950.00				
-	Pressure and flow measurement appratus	1	54,000.00	45,900.00				
3	Orifice and Mouthpiece apparatus	1	47,000.00	39,950.00				
4	Pipe Friction apparatus	1	46,000.00	39,100.00				
5	Study of Hydraulic Jump (4m)	1	2,90,000.00	2,46,500.00				
6	Venturimeter and Orificemeter apparatus	1	44,000.00	37,400.00				
7	Centrifugal Pump Test Rig	1	57,000.00	48,450.00				
8	Notch apparatus	1	46,000.00	39,100.00				
	Total cost (Without GST) 6,31,000.00							
	18% GST			96,543.00				
	Total cost With 18% GST			6,32,893.00				
	Amount In words: Six lakhs Thirty-two thousand Eig	ght hundre	ed Ninety three only.					

### **Terms & Conditions**

Payment Term- 50% Advance 40% Before Delivery And remaining 10% After Satisfy

Installation GST-18 % Extra Transport - Nil

Installation - Nil

Demo - Nil

Unloading - Unloading Of material Is and institute responsibility or customer side

Delivary period- 4 to 8 Weeks from The Date OF PO with Advance

Warranty - 12 month: apply Only manufacturing defect under working

Principal

To

Principal

M.S. Bidve Engineering College,

. ¥ "

Latur

Subject: Regarding the transfer an advance payment to the supplier for Engineering Mechanics Lab equipments.

Respected Sir,

We have received the Invoice Performa and a request for an advance payment from the Supplier SUPERTECH EQUIPMENTS, Sangli. As per their quotation it requires to give 50% advance amount to them.

So please release the advance (i.e.50% of the total cost) to the above supplier.

Bank details are attached here with the application.

Yours Faithfully,

ple seed in some

Prof. G.N.Shete Head, Civil Engg. Dept

M.S. Bldve Engg. College, Latur Prof. G.N. SHETE

H.O.D. Civil Engg. Dept. M.S. Bidve Engg. College, Latur TAX INVOICE

ORIGINAL

SUPER-TECH EQUIPMENTS Manufacturer and Traders of Engineering Instruments. Office And Factory: J-17/1/2 MIDC Kupwad, Tal: Miraj, Dist: Sangli, Maharashtra, India CONTACT: Mr. A. B. Ghatge (7620701314/9823269098) GST TIN: 27BBRPG1100L1ZR 25/6/2023 Name of Goods recipient (Consigner) INVOICE No: MSBECL/Office/2022-23/584 6.4.2023 To ORDER Date: Principal, MS BIDVE ENGINEERING COLLEGE Delivery PO Box No 112, Barshi Road ,Latur 413 531 Documents Through: Amount Unit Price Party GST NO: URP Qty. **HSN Code** Description SR. NO. 39,950 39,950 9023 1 45,900 □ Determination of losses in pipe 45,900 9023 1 39950 ▶2 Pressure and flow measurement 39950 9023 1 Urifice and Mouth Piece apparatus 39,100 39,100 9023 1 246,500 ✓4 Pipe Friction apparatus 246,500 9023 1 37400 Study of hydraulic jump 37400 9023 1 ∨ 6 Venturimeter and Orificemeter 48450 48450 9023 1 √7 centrifugal pump test rig 39100 39100 9023 1 ▶8 Notch Apparatus 536350.00 536350.00 8.00 Goods once sold cannot be taken back. Our responsibility ceases immediately after Total Goods are delivered to the eartiers Interest @ 24% p.a. will be charged extra if bill Discount % is not paid within 7 days of presentation Certified that the Goods on which the 0% 0.00 IGST/SGST has been charged are not exempted under the CST Act or the Sales I.GST. Tax Act or the rules made thereunder & the amount charged on account of Sales 48271.50 9% C.GST. Tax on these goods are not more than what is payable under the provision of 9% 48271.50 S.GST. relevant act or the rules made thereunder **Grand Total in Rs** 632893.00 Amount In Words: Six Lakh Thirty Two Thousand Eight Hundred Ninty Three Only SUPER-TECH Receivers Signature **EQUIPMENTS** 

> Subject to Sangli jurisdiction. This is computer generated invoice

Authorized Signatory



## e-Way Bill



Assert Africa (Alexander Alexander Anter Alexander Anter Ant		
E-Way Bill No:	2316 0964 8988	
E-Way Bill Date:	25/06/2023 11:23 AM	
Generated By:	27BBR PG110 0L1ZR - SUPERTECH EQUIPMENTS	an and analysis and the analysis and body a service transfer and the service a
Valid From:	25/06/2023 11:23 AM [302Kms]	
Valid Until:	27/06/2023	
Part - A		
GSTIN of Supplier	27BBRPG1100L1ZR,SUPERTECH EQUIPMENTS	
Place of Dispatch	Sangli,MAHARASHTRA-416436	1
GSTIN of Recipient	URP ,MS BIDVE ENGINEERING COLLEGE	
Place of Delivery	LATUR,MAHARASHTRA-413531	
Document No.	11	11
Document Date	25/06/2023	
Transaction Type:	Regular	
Value of Goods	632893	. William St. Milliam St.
HSN Code	9023 -	
Reason for Transportation	Outward - Supply	
Transporter		No.
a facility and the same and the		

## Part - B

 Mode	Vehicle / Trans Doc No & Dt.	From	Entered Date	Entered By	CEWB No. (If any)	Multi Veh.Info (If any)
 Road	MH46F5827		25/06/2023 11:23 AM	27BBRPG1100L1ZR	-	-