GOVERNMENT COLLEGE UNIVERSITY FAISALABAD

RE-TENDER DOCUMENT No.401/2017

SUPPLY OF SURVEY LAB EQUIPMENTS FOR DEPARTMENT OF CIVIL ENGINEERING TECHNOLOGY, GCUF.

Purchase Price: Rs. 500/-

Sealed Tenders are invited from the well reputed firms / suppliers, who are registered with Sales Tax and Income Tax Departments as active tax payers for Supply of Survey Lab Equipment for Department of Civil Engineering Technology, GCUF.

GENERAL TERMS & CONDITIONS

1. Tender Opening Date & Procedure:

The procurement shall be completed in accordance with Punjab Procurement Rules 2014, on Single Stage - Two Envelopes Bidding Procedure.Bids in complete conformity with Tender Documents will be dropped in Tender Box placed at Procurement Department of the GCUF, not later than **10:00 Hrs** on **07.06.2017** which shall be opened on same day at **10:30 Hours**.

Note: Tender Number must be mentioned on envelope.

2. Tender Fee, Bid Security and Performance Security:

The Bid must be accompanied by Tender Fee of Rs.500/- in shape of Call Deposit Receipt (CDR) in original and Bid Security of 2% of estimated price of Rs.653,825/- (refundable) in shape of Call Deposit Receipt (CDR) in original. The firms / vendors may participate for each item (s) at their own choice; estimated item-wise cost is given at Annexure "A". CDRs must be in favor of Treasurer, GC University, Faisalabad.
The rates / bids should be inclusive of all applicable Govt. Taxes.

3. Validity of Offers.

i. Offers shall be valid for 180 days from the date of submission of bids.
ii. Withdrawal / modification of the original offer within the validity period shall entitle the University to forfeit Bid Security.
iii. Sales Tax Number and NTN Number must be mentioned on the letter head and bidding documents.

4. Failures and Terminations:

No offer of a supplier / firm will be considered if:-

a) Bid received without Bid Security / Call Deposit or less CDR than the required.
b) Bids received not in accordance with specifications of Tender Documents.
c) Bid received later than the date and time fixed for tender.
d) Tender is incomplete in any respect or is unsigned.
e) Offer is ambiguous and the offer is conditional.
f) Offer from a firm which is black listed at any level.
g) Any erasing / cutting / overwriting etc.
h) The supplier fails to deliver the consignment within specified delivery period strictly in accordance with the terms and conditions as laid down in the Purchase Order.
i) Situation warranted, then University is authorized to forfeit the bid Security and the firm may also be black listed.

5. Other special conditions

I. The decision of the Vice Chancellor of Government College University, Faisalabad, would be final & binding on both the parties.

II. The performance security applicable under the rules shall be deducted from the final bill of the successful bidder.

III. All Government Taxes will be deducted according to applicable rules.

IV. The University may reject all bids/proposals at any time prior to the acceptance of a bid or proposal as per PPRA Punjab rule 35, however upon bidder request the ground of rejection will be communicated to the concerned but no justification will be given as per PPRA rule 35 (2).

Muhammad Mazhar Waseem
Incharge Officer, Procurement & Inventory Control
Allama Iqbal Road Faisalabad, Phone: 041-9201468 & 9201030

ISSUED TO:

M/S----------

Appendix "A"

RE-TENDER DOCUMENT No.401 / 2017

SUPPLY OF SURVEY LAB EQUIPMENTS FOR DEPARTMENT OF CIVIL ENGINEERING TECHNOLOGY, GCUF.

Sr#	Specification or Equivalent	Qty.	Unit Price Including Taxes	Total Price (Rs.)
1.	**Electronic Optical Laser Digital Theodolite** **Description:** A digital theodolite is a survey instrument using a three-screw levelling base, glass horizontal and vertical circles read directly with a digital display, and equipped with right-angle optical plummet for setting over specific points. The term digital theodolite can be used to describe those survey instruments designed to precisely measure horizontal and vertical angles. In addition to measuring horizontal and vertical angles, digital theodolite is used to establish straight lines, to establish horizontal and vertical distances through the use of stadia, and to establish elevations when used as a level. **Technical Specifications:** Magnification 30x, Optical Laser, Level Sensitivity – 30" / 2mm, Circle level 8'/2mm, Laser Plummet Laser Wave – 635nm, Field of view 4', Water & dust Proof Production – IP55, 1" reading 5" Accuracy absolute angle reading system, fully water and dust proof, LCD double display, working time 24 hours, in-built application programs, compact light weight complete, Aluminium Heavy Duty Tripod	01		
2.	**Automatic Level** **Description:** An Auto Level is a Professional Leveling Tool used by Contractors, Builders, Land Surveying Professionals, or the Engineer who demands accurate leveling every time. AutoLevels set up fast, are easy to use, and save time and money on every job. We have a large selection of Automatic Levels for your choice of options like magnification, accuracy, and price. Some Auto Levels come in kits that include the grade rod and tripod. Auto-Levels are great for Fence Builders, Foundation Installers, Deck Builders, Landscaping Pros, Swimming Pool Builders, Home Builders, Roadwork Jobs, Excavations and More. **Technical Specifications:** Magnification 32x image, erect objective lens	04		

	30/1.2, relative brightness 1.56, field of view 130, resolving power 4.0, minimum focus 0.5 / 1.6, stadia constant 0, stadia ratio 100, circular level sensitivity 2mm, setting accuracy 0.3, compensating range 15, accuracy 1km, double run level w/o optical micrometer 2.0mm, horizontal circle, Aluminum heavy duty Tripod.			
3.	**Telescopic Alidade** **Description:** It is an instrument used in topographic surveying, along with a topographic drawing board, for plotting relief, contours, and ground features on a map. The alidade consists of a rule for drawing straight lines on the drawing board and an upright that supports on the horizontal axis a telescope with stadia hairs and a vertical circle with degree readings for determining angles of slope. **Technical Specifications:** Image: Erect Magnification: 08-12X Aperture:25mm to45mm Minimum Focus: 2m or better Stadia constants: 0, 100 Moveable Range: 0 to 30 mm Vertical Circle Graduation: Half (0-90C) full Vernier Arm: reading 10' Alidade Length: 20-30cm beveled edge with detachable scale Mounted Pill Bubble	02		
4.	**Engineer's Chain (100 ft long)** **Description:** A surveyor's measuring instrument consisting of 1-foot (30.48-centimeter) steel links joined together by rings, 100 feet (30.5 meters). It is a distance measuring device used in land surveying consisting of a series of links; in the US, each link is 1 ft long; the length of the chain is 100 ft. **Technical Specifications**: 100 ft long with 100 links connected with rings brass handle on both sides tempered. (Jist Coated).	03		
5.	**Gunter's Chain (66 ft long):** **Description:** Gunter's chain reconciled two seemingly incompatible systems, the traditional English land measurements, based on the number 4, and the newly introduced system of decimals based	03		

	on the number 10. Since an acre measured 10 square chains in Gunter's system, the entire process of land measurement could be computed in decimalized chains and links, and then converted to acres by dividing the results by 10. **Technical Specification:** 66 ft long with 100 links connected with rings brass handle on both sides tempered (Jist Coated).			
6.	**Cross Staff – 1.25m (5ft long rod):** **Description:** A Cross Staff was made up of wood and comprised of a staff of long length along with a four sliding piecesshorter and varying in length and lying crossed to the staff. This staff was mostly 36 inches long and the shorter side staffs could slide back and forth on its surface. The Cross Staff had markings which were evaluated via trigonometry calculations and the four shorter slides were arranged at different degrees. The navigator used to pick up the most appropriate cross slide piece and hold it on the long perpendicular staff. He would then hold Cross Staff close to the eye and adjust the cross sliding piece till the lower and upper edges fell in the same line of the horizon and the celestial body respectively. This helped the navigator to evaluate the height of celestial body**.** **Technical Specification:** Standard size with aluminum strips bent on 90^{o}.	03		
7.	**Electronic Distance Meter 80M** **Description:** Electronic distance measuring instrument is a surveying instrument for measuring distance electronically between two points through electromagnetic waves. **Technical Specification:** Measuring Accuracy: + 1.5mm Range: up to 80 meter	01		
8.	**Plane Table Plywood with Stand** **Description:** Plane table surveying is a graphical method of surveying in which the field works and the plotting is done simultaneously.In plane table surveying a table top, similar to drawing board fitted on to a tripod is the main instrument. A drawing sheet is fixed on to the table top, the observations are made to the objects, distances are scaled down and the objects are plotted in the field itself. Since the plotting is made in the	03		

	field itself, there is no chance of omitting any necessary measurement in this surveying. **Technical Specification:** Plane table standard size with Tripod Ali Dade 18" Trough compass Fork wooden Plum bob I ron Spirit Level			
9.	**Ranging Rods** **Description:** A ranging rod is a surveying instrument used for marking the position of stations and for sightings of those stations as well as for ranging straight lines.Nowadays they are made of metallic materials only. The rods are usually 3 cm in diameter and 2 m or 3 m long, painted alternatively either red and white or black and white in lengths of 20 cm **Technical Specification:** Mild Steel Pipe 6ft long, 20 SWG mild steel pipe painted on color white, black & red	15		
10.	**Prismatic Compass with Aluminum Stand** **Description:** A prismatic compass is a navigation and surveying instrument which is extensively used for determining course, waypoints (an endpoint of the leg of a course) and direction, and for calculating bearings of survey lines and included angles between them. Compass surveying is a type of surveying in which the directions of surveying lines are determined with a magnetic compass, and the length of the surveying lines are measured with a tape or chain or laser range finder. The compass is generally used to run a traverse line. The compass calculates bearings of lines with respect to magnetic north. The included angles can then be calculated using suitable formulas in case of clockwise and anti-clockwise traverse respectively. **Technical Specification:** Magnetic compass with 6" Dia Grouted Circle with reading 0 to 360^{o} with cover and original stand, with magnetic needle and plate Level.	04		

11.	**GPS** **Description:** The GPS is a remarkable GPS in a small, compact package. It takes the best features of a 12-paralle channel GPS receiver and puts them into a six-ounce, handheld device that is only four inches high and a mere two inches wide. **Technical Specification:** Sensitivity GPS received, stores 10000 waypoints and 50 routes, Display size WxH 4”x1.7” (3.6x4.3cm), 2.2” dia (5.6cm) weight only 5 ounces (141.7 grams) with batteries.	01		
12.	**Abney’s Level** **Description:** An Abney level and clinometer, is an instrument used in surveying which consists of a fixed sighting tube, a movable spirit level that is connected to a pointing arm, and a protractor scale. An internal mirror allows the user to see the bubble in the level while sighting a distant target. **Technical Specification:** Aluminum made with eye piece fitted in tube including level with angle measuring arrangement	01		
13.	**Steel Tape** **Description:** It is a measuring instrument consisting of a narrow strip (cloth or metal) marked in inches or centimeters and used for measuring lengths; "the carpenter should have used his tape measure. It is a flexible rule of thin steel that retracts into a protective case. It is used for measuring irregular and regular shapes. **Technical Specification:** Length: 30m Width: 13mm, Stainless Steel with vinyl coating, Both face marking, one in m (0.1, 0.01, and 0.005m) and other in ft (inches & half) first decimeter also marked for 0.001 m and Fust ft marked for 1/8"	05		
14.	**Optical Square** **Description:** It is a very simple geodetic instrument that is used to lay off angles that are multiples of 90° or of 45°. In a prism square (see Figure 1), the direction of a ray originating from the flag on the right is changed by 90° after refraction and internal reflection. **Technical Specification:** Mirror type Brass, 10 cm (4") dia, metallic case	03		

	with handle			
15.	**Plumb Bob** **Description:** A plumb bob or a plummet is a weight, usually with a pointed tip on the bottom, that is suspended from a string and used as a vertical reference line, or plumb-line. It is specifically used in surveying to establish the nadir with respect to gravity of a point in space. They are used with a variety of instruments (including levels, theodolites, and steel tapes) to set the instrument exactly over a fixed survey marker, or to transcribe positions onto the ground for placing a marker. **Technical Specification:** Brass Polished, Replaceable blued steel pointer, Screw cap with strip indicator	05		
16.	**Pegs Wooden** **Description:** A wooden peg that is used to fasten timbers in shipbuilding. Water causes the peg to swell and hold the timbers fast.	50		
17.	**Sounding Rod – 6 feet long** **Description:** It is a rod used to measure the depth of water under a boat or in a ship's hold or other container. **Technical Specification:** Silver coated with marking having cap on its bottom 6ft long 16SWG 1 ½" dia. Made of aluminum	01		
18.	**Digital Planimeter KP 90N** **Description:** A planimeter, also known as a platometer, is a measuring instrument used to determine the area of an arbitrary two-dimensional shape. **Technical Specification:** Digital display integration wheel, tracer arm, tracing magnifier operated with NiCd Battery	01		
Total (Rs.)				

Note: Price should also be quoted on Firm's letter head pad.

Details of Call Deposit Receipt (CDR) **Signature_____**

No_____ Amount_____ **Name of Bidder_____**

Bank_____ Branch_____ City_____ **CNIC No _____**

Name of the Firm & Address _____Ph No_____

N.T.No. _____Sales Tax No._____

Issued By:

Muhammad Mazhar Waseem
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