



**UNIVERSITY OF CALCUTTA**  
OFFICE OF THE UNIVERSITY ENGINEER  
87/1, College Street  
Darbhanga Building, Ground Floor  
Kolkata-700073  
Website :-www.caluniv.ac.in

**NOTICE INVITING TENDER**

University of Calcutta invites **sealed** tender from resourceful and bonafide contractors for the following work

1.	N.I.T. No:	Eng /CT- 486/19-20. Dated: 26.02.2020
2.	Name of the work:	<u>RENOVATION OF LAB SPACE FOR MULTIMODAL SYSTEM INCLUDES VIRTUAL REALITY, 32CHANNEL WIRELESS EEG MODULE AND WIRELESS PHYSIOLOGICAL SIGNAL RECORDER WITH SIGNAL PROCESSING SOFTWARE IN CENTRAL AREA OF 2<sup>ND</sup> FLOOR APPLIED PHYSICS BUILDING (EXISTING AREA OF DIFRACTIVE OPTICS LAB) BY UPE(II) AT RAJABAZAR SCIENCE COLLEGE</u>
3.	Estimated Cost put to Tender:	<u>RS. 192296.50</u>
4.	Earnest Money:	A sum of Rs.9650.00 ( Rupees nine thousand six hundred fifty only) in the form of CTS demand draft in favour of University of Calcutta payable at Kolkata is to be attached with the Tender as earnest money failing which the tender will be treated cancelled. The earnest money will be returned to unsuccessful tenders on application after issuing of work order to the successful bidder. In case of successful tender the EMD will be returned on application after an equal amount of security deposit is deducted by the University from the running bills. EMD is exempted for those bidders who are registered with NSIC or any Government organization- to safeguard against a bidder withdrawing/altering his bid during the bid validity period.
5.	Time of completion:	30 days
6.	Eligibility Criteria	Valid trade License , GST & Pan and credential for satisfactory completion of similar nature of job. Amounting 75 % of the estimated value in a single tender in the last three financial year . Government, Government Undertaking and University of Calcutta credentials are accepted.(only completion certificate of the work should be treated as Credential.
7.	Last date of receipt of application for tender	NA
8.	Last date of Sale/ issue of tender papers	TO BE DOWNLOADED FROM WEBSITE.(www. caluniv.ac.in)
9.	Last Date and Time of tender Submission	( 05.03.2020 up to 2.00 PM)
10.	Date and Time of Tender Opening	On or after 3:00 PM ..05.03.2020

N.I.T no :Name of work and the date of opening should be written on the sealed envelope otherwise tender will not be opened thus cancelled.

The undersigned reserves the right to reject any or all Tenders without assigning any reason what so ever.

UNIVERSITY ENGINEER (C.U)



# UNIVERSITY OF CALCUTTA

**Name of the work:** RENOVATION OF LAB SPACE FOR MULTIMODAL SYSTEM INCLUDES VIRTUAL REALITY, 32CHANNEL WIRELESS EEG MODULE AND WIRELESS PHYSIOLOGICAL SIGNAL RECORDER WITH SIGNAL PROCESSING SOFTWARE IN CENTRAL AREA OF 2<sup>ND</sup> FLOOR APPLIED PHYSICS BUILDING (EXISTING AREA OF DIFRACTIVE OPTICS LAB) BY UPE(II) AT RAJABAZAR SCIENCE COLLEGE

**N. I.T. no-** Eng /CT- 486/19-20.

**Dated:** 26.02.2020

**Estimated cost Put to Tender:-** RS. 192296.50

**Name of Agency:-**

**Address of Agency:-**

**Rate quoted by Agency:-** ..... (           %)  
**Percent Above / At par / Below**

**Signature of the Agency with date & stamp:-**



# UNIVERSITY OF CALCUTTA

**N. I.T. no** : Eng /CT- 486 /19-20.      **Dated:**26.02.2020

## TENDER AND CONTRACT FOR WORK

### GENERAL TERMS AND DIRECTION FOR THE GUIDANCE OF CONTRACT

1. Eligible Tenders will have to download the tender papers from the website & drop the filled tender papers signed with seal and date at every page along with copy of Valid Trade license's, GST & PAN and Credential for satisfactory completion of similar nature of job amounting to at least seventy five percent of the job value in a single tender from any Government, Govt. undertaking or University of Calcutta in the last three financial year in sealed envelope in the Tender box kept in the Office of the undersigned with in the specified time mentioned in the NIT which will be opened by the undersigned or by his representative with in **the specified time and date mentioned in the NIT** **The tendered must write the name of the work , NIT no , the date of opening and name of the bidder on the envelop failing which the tender will not be opened thus will be treated as cancelled.**
2. The rate should be quoted after inspection of the site and inclusive of all incidental charges i.e. freight, insurances, labour insurances, handling charges, necessary government taxes, duties etc as well as the Water, Electricity charges which are to be paid as per rules .
3. The contractor shall be responsible to ensure compliance with the provision of minimum wages act 1948 as modified up to date and the rules made in respect of any employees, employed by the contractor directly or through the petty or subcontractor for the purpose of carrying this contract. The contractor shall be responsible for any damage, injury or loss caused by the work or workmen to any person, animal or material during the progress of work.
4. Liquidated damage will be charged to the contractor if they fail to complete the work within the stipulated time, 0.01% per day to a maximum limit of 05 % of the contract value .



5. The allotted time for completion of the work as specified in the NIT from the date of receipt of work order .Time is the essence of this contract. Normally no time extension will be granted. In case of prayer for extension of time the University authority has the full right reserved to grant it or discard it.
6. (a) If the successful contractor's bid rate is 80% or less than the estimated amount put to tender the contractor will have to submit a Bank Guarantee amounting to 10% of the Tendered amount before issue of Work order failing which the EMD will be forfeited and the agency may be blacklisted. The Bank Guarantee should be valid till the end of the contract period and shall be renewed accordingly if required. This bank Guarantee is an Additional Performance Security .So provision of deducting Security deposit from bills will hold goods per relevant clause of the contract. The bank Gurrantee shall be returned immediately on successful completion of contract.  
  
(b) The University authority will retain a sum amounting to 10% of the bill of the contract for a period of six months from the date of completion of work as **Security Deposit**. Which will be released after a period of six months from the date of completion of the work on application.
7. Work is to be carried out as per specification laid in the B.O.Q or PWD specification as per instruction of the University Engineer or his representative.
8. The materials brought to site for execution of the work should by no means be taken out of site without the permission of the Engineer C.U.
9. The rates must be quoted in words in figure otherwise the tender will be cancelled.
10. The University will not be bound to accept the lowest bidder.
11. The University will not supply any materials to the contractor.
12. The contractor will work under the strict supervision of the Engineer/ Sub-Assistant Engineer. The estimate given along with the tender are provisional payment will be made on the actual work done jointly measured by the Engineer or his representative ( Sub-Assistant- Engineer) & the contractor or his representative. The contractor will have to submit bill in printed format in duplicate.
13. The contractor will have to take necessary instruction from the Engineer CU/ Sub-Assistant Engineer regarding the execution of work.

**14. Defect& liability Period:-**The defect & liability period will be for a period of six months from the date of completion of the job. Any defects pointed out during this period has to be mend good by the agency at their own cost failing which the retention money will be forfeited.

Sd/-

University Engineer

Name of the Agency:

Address :-

**Signature of the Agency with date & stamp:-**

**Specific Price schedule for RENOVATION OF LAB SPACE FOR MULTIMODAL SYSTEM INCLUDES VIRTUAL REALITY, 32CHANNEL WIRLESS EEG MODULE AND WIRELESS PHYSIOLOGICAL SIGNAL RECORDER WITH SIGNAL PROCESSING SOFTWARE IN CENTRAL AREA OF 2<sup>ND</sup> FLOOR APPLIED PHYSICS BUILDING (EXISTING AREA OF DIFRACTIVE OPTICS LAB) BY UPE(II) AT RAJABAZAR SCIENCE COLLEGE.**

SL.NO.	DESCRIPTION OF ITEM.	UNIT.	QUANTITY.	RATE. RS. P.	AMOUNT. RS. P.
1. (page11 Item10).	Stripping off worn out plaster and raking out joints of walls, celings etc. upto any height and in any floor including removing rubbish within a lead of 75m as directed.	Sqm.	5.00	19.00	95.00
2. (page113 Item1).	Labour charge for dismantling existing G.I. pipe for executing work and re fitting the same outside of the room.	Nos.	5.00	326.00	1630.00
3. (page192 Item1	Labour for Chipping of concrete surface before taking up Plastering work.	Sqm.	40.00	21.00	840.00
4. (page-64 Item - 35).	Supplying, fitting & fixing 1st quality Ceramic tiles in walls and floors to match with the existing work & 4 nos. of key stones (10mm) fixed with araldite at the back of each tile & finishing the joints with white cement mixed with colouring oxide if required to match the colour of tiles including roughening of concrete surface, if necessary or by synthetic adhesive & grout materials etc.	Sqm.	40.00	858.00	34320.00
5. (page189 Item1).	Plaster (to wall, floor, ceiling etc.) with sand and cement mortar including rounding off or chamfering corners as directed and raking out joints including throating, nosing and drip course, scaffolding/staging where necessary (Ground floor).[Excluding cost of chipping over concrete surface]. 25 mm thick 1:6 cement mortar.	Sqm.	5.00	203.00	1015.00
6. (page114 Item1).	Wood work in door and window frame fitted and fixed in position complete including a protective coat of painting at the contact surface of the frame excluding cost of concrete, Iron Butt Hinges and M.S clamps. (The quantum should be corrected up to three decimals) Sal-Malaysian	Sqm.	0.10	83218.00	8321.80

	(for repairing)				
7. (page173 Item2).	<p>Supplying, fitting and fixing boiling water proof ply conforming to IS: 710-1977 bonded with phenol formaldehyde synthetic resin conforming to IS: 848-1974 of approved make and brand fitted and fixed as per design as per approval and direction of Engineer-in-Charge. [excluding the cost of supporting frame work and teak wood batten/Lipping]. 6 mm thick. 2x1.5x1.8=22.5</p>	Sqm.	6.00	1122.00	6732.00
8. (page202 Item12).	Ready mix Wax polishing to wood work including preparing surface.	Sqm.	20.00	77.00	1540.00
9. (page157 Item2).	<p>Providing and fixing of false ceiling with powder coated exposed G.I. grid suspension system (E-Grid T 2430 or equivalent load carrying capacity with mid span deflection not exceeding 1/360 span with hanger spacing of 1200mm c/c) consisting of Main Runner 3600 mm long, Cross Tee 1200 mm / 600 mm long and Wall Angle. The Wall Angle shall be fixed on PVC Dash Fasteners on the perimeter of the wall by steel screws with distance 300mm c/c. The Main Runners to be placed @ 1200 mm. The Cross Tee 1200mm will be inserted in the pre-cut slots of Main Runner at regular interval of 600 mm to form a modular grid of 1200mm X 600mm. Additional Cross Tees of 600 mm shall be placed perpendicular to the Cross Tee 1200 mm long to finally form a grid of 600 mm X 600 mm. Grid of module size 600 mm X 600 mm shall be supported by 6 mm dia G.I. wire from purlins / soffit. 6 mm thick High Pressure Steam Cured Non Asbestos Fibre Cement Standard Ceiling Board (Density &gt; 1300 Kg/m<sup>3</sup>) of size 595 mm X 595 mm, conforming IS 14862 &amp; Type B Category III of ISO 8336, tested as per AS-1530 part 3 &amp; BS-476 Part 4,5,6,7 &amp; 8, should be placed in the Grid module to form a False Ceiling. All complete as per the drawing &amp;</p>	Sqm.	10.00	591.00	5910.00

	directions of Engineer-in-charge. 2x0.6x0.6x10=7.2				
10. (page9 Item11e).	Spot application for insecticides using Aqua base spray for pest (for bugs, cockroaches, silverfish, spider, termites, mosquitoes) to walls and ceiling etc. With chemical emulsion by admixing chloropyrofos emulsifiable concentrates (1% concentration) with water by weight including spraying the emulsified chemical @ 0.5 litres per sqm. by a hand operated pressure pump on wall surfaces, ceiling, electrical fixture, electrical lines including drilling holes in places where source of termite is detected squirting chemical solution into the holes and sealing the holes with cement grout. (Rate is per sqm. of the floor area while actual work will be all walls ceiling, rack, partition and furniture)	Sqm.	150.00	49.00	7350.00
11. (page233 Item1).	Supplying profiles of required section made of Aluminium Alloy Extrusions conforming to IS: 732-1983 and IS: 1285- 1975; Anodized (with required film thickness and specified colour / natural) matt finished conforming to IS: 1868-1983 for fabrication of composit door, sliding & casement windows, partitions, formed of basic sections of any ISI embossed / certified make and brand as per direction of Engineer – In-charge. Fixed partitions. (Unsupported length of vertical member upto 1.5 mtr. Height of both ends of vertical member restrained but panels within 0.9 sq.m.) Top , bottom & side member. Intermediate member. Glazing clip	Rmt. Rmt. Rmt.	24.00 28.00 60.00	462.00 480.0 46.00	11088.00 13440.00 2760.00
12. (page239 Item2).	Labour charge for fabrication and installation of composite door, window, partitions made from annodized extruded alloy aluminium section. Fixed glazing 3.2x4=12.8	Sqm.	15.0	768.00	11520.00
13. (page243 Item9).	Supplying bubble free float glass of approved make and brand conforming to IS: 2835-1987 5mm thick coloured / tinted / smoke				



	glass.	Sqm.	10.00	526.00	5260.00
14. (page303 Item5).	Labour charge for repairing existing partition, existing door, and furniture etc. By carpenter.	Nos.	10.00	326.00	3260.00
15. (page143 Item16).	Supplying 'Godrej' mortice lock chromium plated with latch and keys 4 levers, including fitting and fixing complete.	Nos.	3.00	1081.00	3243.00
16. (page143 Item23).	Hydraulic door closer of approved quality as per I.S.I. standard fitted and fixed complete	Nos.	3.00	1665.00	4995.00
17. (page195 Item7).	Applying Interior grade Acrylic Primer of approved quality and brand on plastered or concrete surface old or new surface to receive Distemper/ Acrylic emulsion paint including scraping and preparing the surface thoroughly, complete as per manufacturer's specification and as per direction of the EIC	Sqm.	100.00	33.70	3370.00
18. (page201 Item4).	Applying Acrylic Emulsion Paint of approved make and brand on walls and ceiling including sand papering in intermediate coats including putty (to be done under specific instruction of Superintending Engineer.	Sqm.	100.00	70.00	7000.00
19. (page200 Item1).	Priming one coat on timber or plastered surface with synthetic oil bound primer of approved quality including smoothing surfaces by sand papering.	Sqm.	100.00	38.00	3800.00
20. (page200 Item2).	Painting with best quality synthetic enamel paint of approved make and brand including smoothing surface by sand papering etc. including using of approved putty etc. on the surface, if necessary	Sqm.	60.00	79.00	2340.00
21. (page- 117 i-1+20%)	Panel shutters of door and window, as per design (each panel consisting of single plank without joint), including fitting and fixing the same in position <b>including the cost of hinge and other fittings.</b> Ordinary teak wood.	Sqm.	4.50	6703.00	30163.50

**(A) TOTAL-----RS.169993.30**

**(B) G.S.T @ 12% OF (A)-----RS.20399.20**

**(C) TOTAL(A)+(B)-----RS.190392.50**

**(D) LABOUR CESS @ 1 % OF (C) -----RS.1904.00**

**TOTAL ESTIMATED COST (C) + (D)-----RS.192296.50**

**Name of the Agency**

**Address of the Agency**

**Rate quoted by the Agency**

**Signature of the Agency with date**