

# MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL

No : ENGG(Civil)/Tender-03/2015

Date : 15/12/2015

Sealed tenders are invited for TEQIP related work from bonafide & resourceful ,agency who have experienced in handling such type of job in CPWP / PWD / WB Govt undertaking /PSU /reputed organization at the campus of MAKAUT, BF-142, Sec-I, Salt lake Kolkata : 700064

**Name of the work** : Development of civil & Electrical works of class room & adjacent of sanitary system, lab improvement, Reduction of pollution &save energy , And improvement of Electrical system in university under TEQIP in MAKAUT,WB, BF-142, Sec-I, Saltlake Kolkata : 700064.

Estimated Cost : **Rs -40,46,131.81/-**

Issue of Tender documents: 16/12/2015 to 23/12/2015 upto 2.30 PM

Last date of submission of complete tender: 28/12/2015 upto 2.30 PM

Opening of tender: - **29/12/2015** at 3.30 PM

Earnest money deposit: **Rs 80922/-**

Time of completion : 30 days from the date of handing over the site.

## **1. Qualifications required for participating in the tender.**

- a) The bidder must have IT, ST, VAT, PT,PAN etc. clearance certificates.
- b) The bidder must have credential of completion of similar type of Job/ civil & Interior work ,Electrical work.  
of minimum amount of Rs 10.00 Lac executed within 05 years from the date of publication of the NIT.
- c) The bidder should submit the audited balance sheet for the last three financial years.
- d) the participated bidder should posses compatible Electrical Licenses & Electrical credentials

2. The bidder shall submit the 2% earnest money of tender value in the form of DD/Pay Order of any nationalized bank payable in favour of 'Maulana Abul Kalam Azad University of Technology, West Bengal', payable at Kolkata. The EMD of successful bidder shall be converted as initial Security deposit. The EMD shall remain valid for three months from the date of opening of tender.

## **3. Security deposit**

The Security deposit along with the initial security deposit shall be 10% of the ordered amount which shall be realized from first and final bill. The security deposit shall be released 06 months after the completion of the job being certified by controlling officer/E-I-C and within such period the contractor shall be liable for maintaining/repairing of the defects .

## **4. Engineer-in -Charge/Controlling Officer**

The Engineer(Civil),MAKAUT.WB

## **5. Paying Authority**

The Finance Officer, MAKAUT.WB

## **6. Penalty :**

The university shall impose penalty in the event of failure of the contractor to complete the work in the stipulated time or abandonment of the work at his own fault.. The penalty shall be deducted @ 10% Of the ordered amount with forfeiture of the EMD.

## **7. Mode of Work/measurement.**

The work must be executed strictly as per the enclosed schedule of works and as per Specification and rates of PWD S.O.R. (Bldg) w.e.f July' 2014.& PWD (Electrical)

## **8. Variation of work**

The rates shall be inclusive of all taxes and duties and Service tax. However the rate shall remain effective until total executed amount exceeds 5% of the tender amount.

9. The bidders must quote rate in the price bid as enclosed in annexure-I as % above or below. The rate should be quoted both in figure & words.

10. No quotation shall be entertained if EMD is not submitted. The university authority reserves the right to reject offer of any bidder or cancelled the tender without assigning any reasons.

11. The tender must be submitted to the Engineer(Civil), MAKAUT, WB in sealed envelop, mentioning the name of firm ,name of work &Tender no.

12. Agency would submit the bill of three copies in it own letter head after completion of work with satisfaction of university Authority for payment.

13. NO conditional tender will be accepted .

NO	DESCRIPTION OF ITEM	QTY	U NIT	RATE (RS)	AMOUNT(R S)
1.	Dismantling all typeset masonry excepting cement concrete plain or reinforced, stacking serviceable material at site removing rubbish as directed within a lead of 75m.In ground floor including roof.	54.94	M <sup>3</sup>	451.00	24,777.94
2.	Stripping off worn out plaster and raking out joints of walls , ceiling etc. up to any height and in any floor including removing rubbish within a led of 75m as directed.	593.5	M <sup>2</sup>	19.00	11,276.50
3.	Plaster (to wall ,floor ,ceiling etc)with sand and cement mortar including rounded off or chamfering corners as directed and raking out joints including threading nosing and drip course scaffolding/staging where necessary (ground floor).[Excluding cost of chipping over concrete surface with 1:4 Cement mortar.20 mm thick plaster.	593.5	M <sup>2</sup>	206.00	1,22,261.00
4.	Removing old scales, blister etc of interior surface of wall ,calling by scraping etc ,and preparing smooth and even surface with rendering or cement mortar (1:2)(as necessary ),make the surface suitable for receiving distemper (payment against this item will be made only when this has been done on the specific direction of the Engineering in charge).	5308.28	sq. m.	1047.00%	55,577.69
5.	Rendering the surface of walls and ceiling with white cement based walls putt of approved make and brand . (15mm thick	5418.28	M <sup>2</sup>	122.00	6,61,030.16
6.	Acrylic distemper to interior wall ,calling with a coat fo solvent based interior grade acrylic primer (as per manufacturers specification )including cleaning and smoothing of surface.	5518.28	M <sup>2</sup>	76.00	4,19,389.28
7.	Removing old point from blistered paint surface of steel of other metal by chipping including scraping &cleaning.	3.00	M <sup>2</sup>	48.00	144.00
8.	Removing thick layers of paint from heavily cracked and blistered painted surface of timber by careful burning with blow lamp including smoothening exposed surface of timber with pumice stone or glass and preparing the same for treatment .	324.00	M <sup>2</sup>	53.00	17,172.00
9.	Priming One coat on timber or plaster	326.00	M <sup>2</sup>	41.00	13,366.00

	surface with synthetic oil primer of approved quality including smoothing surfaces by sand preparing etc				
10.	Priming one coat on steel or other metal surface with synthetic oil bound primer of approved quality including smoothing surfaces by sand papering etc.	193.0 0	M <sup>2</sup>	31.00	5983.00
11.	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 surface if necessary. (A)On timber surface - One coat (with any shade except white )	479.0 0	M <sup>2</sup>	59.00	28,261.00
12.	(B)on steel other metal surface -one coat (with any shade except white)	193.0 0	M <sup>2</sup>	55.00	10615.00
13.	Taking out shutter of door and window -dismantling by part for repair or replacement of damage part ) reassembling and refitting and remaining same with old fitting but with new screws as necessary.	60.00	M <sup>2</sup>	128.00	7680.00
14.	Supplying and laying true to line and level vitrified tile of approved brand (size not less than 600mmx600mmx10mm thick )in floor ,skating etc .set in 20mm sand cement mortar (1:4)and 2mm thick cement slurry back side of tiles using cement @2.9kg /sq .m or using polymerized adhesive (6mmthick layer applied directly over finished artificial stone flooring /mosaic etc without any backing course )laid after application slurry using 1.75kg of cement per sq.m below mortar only joints grouted with admixture of white cement and colouring pigment to match with collar of tiles /epoxy grout materials of approved make as directed and removed of wax coating of top surface of tiles with warm water and polishing the tile using soft and cloth up to mirror finish complete including the cost of material ,labour and all other incidental charges complete true to the manufacture s specification and direction of Engineer in charge (White cement ,synthetic adhesive and grout material to be supplied by the contra(1)With application slurry @1.75 kg /sq. m 20mm sand cement	123.50	M <sup>2</sup>	1470.00	1,81,668.5

	mortar(1:4)&2mm thick cement slurry at back side of tiles 0.2 kg /sq. m white cement for joint filling with pigment (a)ling colour				
15.	Wall panelling by 12mm thick water proof ply (ISI band)including necessary frame work by wooden batten 62mm wide x37mm thick as required in position including lamination finish by 1.5 thick (colour as per department choice )after francs polishing in all complete .(as per p.w.d schedule)	92.00	M <sup>2</sup>	3717.00	3,41,964.00
16.	Providing &fixing of calling with powder coated exposed G.I grid suspension system (E-Grid U-1520 or equivalent old carrying capacity with mid span deflection not exceeding 1/360 span with hanger spacing of 1200mmc/c ) consisting of Main Runner 3600mm long .cross Tee 1200 mm /600 mm long &wall angle .the wall angle shall be fixed on PVC Dash Fasteners on the perimeter pf the wall by steel screws with distance 300mm c/c .the main runners to be placed @1200mm .the cross tee 1200mmwill be inserted in pre-cut slots of main runner at regular of 600mmx600mm .Grid of module size 600mmx600mm shall be supported by 6mm dia G .I. wire from purling /soffit . 15mm thick own Acoustic Board (Mineral fibber Acoustic ceiling tiles) of approved pattern and size 595 mmx595mm with NRC value >0.65 (A)acoustic false calling (with15mm thick OW Acoustic board and E-Grid U -1520)	159.00	M <sup>2</sup>	1371.00	2,17,989.00
17.	Supplying, fitting ,fixing bib cock or stop cock .	4.00	NOS	1105.00	4,420.00
18.	Supply &fixing in position door and window curtain maid out from velvet clot of approved shade and quality including curtain road ring etc .complete (Mode of Measurement Actual /velvet are :Height x width)	125.00	M <sup>2</sup>	550.00	68,750.00
19.	Glazed aluminium sliding window made of extruded and anodized alloy aluminium section ,fabrication ,including cutting to proper shape and size ,drilling ant aligning of window shutter frame fitted with in built locking arrangement ,sliding rollers and other necessary fitting ,fixture ,adhesive and joineries along with extruded neoprene	6.2	M <sup>2</sup>	1128.00	3046.00

	or EPDM casketing in between window frame and masonry work (walls ,column beam .lintels etc.)as well as between glass and shutter frame for fixing glass and poly sulphate sealant and in between shutter and window frame where necessary including cutting to requisite size and fixing glass as per drawing ,specification and direction of EIC .The rate including the hire charge fo all tools and plants including all incidental charges. Adhesive ,joineries such as screw ,cleat angle etc. but excluded the cost of extruded aluminium sections ,glass ,neoprene /EPDM casketing ,locking arrangement and roller .a)Open able /casement window .				
20.	Supplying stainless steel function hinge for casement window as per approved brand as direction by Engineer -in-charge .(Natural white )	3	NOS	397.00	1191.00
21.	Supplying Heavy Duty Aluminium Handle (Natural white)	3	NOS	114.00	342.00
22.	Supplying PVC rollers for sliding windows as per direction of Engineer in charge .	16	NOS	15.00	240.00
23.	Party glazed partly panelled or fully glazed single leaf aluminium swing door made of extruded and anodized alloy aluminium sections ,fabrication including aligning ,fitted with heavy duty hydraulic action floor spring placed in the floor with mending damages ,with top assemble of approved make and brand ,fitted with in built locking arrangement, flush bolt ,glazing clip and all other necessary fittings ,fixtures adhesive and joineries, cutting glass of approved make to requisite shape and size fitting with dry set neoprene or EPDM casketing ,cutting to requisite shape and size panel board( prelaminate particle particle block fixing them with glazing clip as per drawing .specification and direction of Engineer in charge.	30.24	M <sup>2</sup>	1294.00	39130.56
24.	Door spring (Garnish)	3	NOS	2800.00	8400.00
25.	Supplying heavy duty top pin /set of pivots of local make and approved by the Engineer -in-charge (this item to be provided where floor spring not used )	8	NOS	355.00	2840.00

26.	Supplying EPDM gasket of approved make and brand as per direction of Engineer in charge .For sliding windows -a)T- shaped EPDM gasket for frames.	30.00	Metre	13.00	390.00
27.	'U' shaped EPDM gasket for frames.	30.00	Metre	15.00	450.00
28.	Weather gasket /wool pile for door vertical.	80.00	Metre	19.00	1520.00
29.	Supply fitting &fixing bib cock for stop cock.	4.00	NOS	1105.00	4420.00
30.	Making &Fixing wooden platform into the class room including pointing including fixing smart board at wall .	2.00	NOS	45,474.00	90,948.00
31.	Making wooden box /table made local wood frame & ply approved band with proper liberation providing necessary droyes door as per design &fixing the same at location . (a)wooden table - (5x0.700x0.800)m	1.00	NOS	47,125.25	47125.25
32.	(b)box-0.800x0.500x1.8)m	1.00	NOS	27,832.53	27,832.53
33.	Supplying &laying of approved brand of scratch proof semi fixable P.V.C blinded homogeneous marble vinyl flooring in tiles conforming I.S 3461.	15.00	M <sup>2</sup>	583.00	8745.00
34.	Taking out shutter of door & window - dismantling by part (for repair or replacement of damage part ) reassembling and refitting and remaining same with old fitting but with new screws as necessary.	60	M <sup>2</sup>	128.00	7680.00
35.	Synthetic Electrical insulation ,Mat is:15652/2006 ,1m wide &20mm length &2mm thick (fire register ) shock proof =3.3 kv (give with test certification with including vat)	130.00	M <sup>2</sup>	1125.00	1,47,150.00
36.	Hydraulic door closer or approved quantity as I.S.I standard fitted and fixed .(a)heavy type I.S .I size 3 .	3	NOS	1919.00	7676.00
37.	Brick work with 1 <sup>st</sup> class brick in cement mortar (1:4) (A)In superstructure and ground floor.	10	M <sup>3</sup>	5943.00	59,430.00
38.	Ordinary cement concrete (mix 1:2:4)with graded stone chips (20mm normal size )excluding shuttering and reinforcement if any in ground floor as per relevant IS codes.(a)pakur varity	10	M <sup>3</sup>	4603.00	46,030.00
39.	Steel shuttering or 9mm to 12mm thick approved quality ply board shuttering in and concrete work.	20	M <sup>2</sup>	403.00	8060.00
40.	Reinforcement for rainforced concrete work in all sorts of surface including distribution bar stirrup binders (Tor steel /Mild steel.	0.30	M.T	68508.00	20,552.40

41.	R.c shelves (1.1.5:3)either precast or cast in situ with stone chips and necessary reinforcement up to 1%(0.8% main and 0.2 % distribution bar ,shuttering etc and 10mm thick cement past (1:4)including neat cement finishing and cutting chase fitting and fixing in position mending good damages as in ground floor. (a)50mm.thick	50	M <sup>3</sup>	1207.00	60,350.00
	<b>ELECTRICAL</b>				
	<b>WORKS</b>				
42.	Dismantling the Existing damaged wiring system u/c switch boards D.B ,MCB etc .as per direction of E.I.C	2.00	JOB	1000.00	2000.00
43.	S/F8way 415V ,TPN PBDB in SS enclosure (IP-43 protect )double door comprising of neutral link ,ear thing attachment on/concealed in wall and mending good the damages to original finish incl. interconnected by suitable copper wire as per direction EIC .Incoming 415V, 4P,25KVA, 250A,MCCB (ABB/Schneider)-1 no outgoing-415v ,10 K,63A ,TP, MCB (ABB/Schneider)	2.00	JOB	46,470.00	92,940.00
44.	Supplying and Drawing 19mm dia 3mm thick plaything and 2x4 sq. mm+1x2.5 sq.mm PVC mauled multi stranded copper wire (FRLS)from PDB/SPNDB to plug board /switch board etc.	100.00	M	202.00	20,200.00
45.	Distribution wiring in 1.1kv grade2x22/0.3(1.5sq.m)single core stander( FR) PVC Insulated and unsheathed copper wire (brand approved by EIC )partly in .20mm size PVC rigid .Conduit (FR)( precision make for horizontal run and above false ceiling portion only &in 19mm bore , 3mm thick polythene pipe for vertical run embedded in wall ) with 1x22/0.3 (1.5sq.mm )single core stranded FR PVC insulated &unsheathed copper wire for ECC TO light point /fan /call bell point with modular type switch (brand approved by EIC)fixed on modular G.I .switch board complete with 2 no suitable size phase and neutral copper bar with top cover making ear thing attachment fixed on wall i/c mending good the damages to original finished a)average run 10 mtrs	80.00	POI NTS	1276.00	1,02,080.00
46.	Supply &installation of BZRSOL 36w G111 WH ,more (Bajaj Crompton )	157.00	SET S	6300.00	9,89,100.00

	specification :CRCA steel sheel housing comprising of white (WH)/Neutral white (NW)LEDS connected inseries parallel opal acrylic diffuse fixed in separate CRCA sheet steel frame . Drive: constant current out point drive operating rang 150-265v A.C supply voltage system wattages-36w.Mains current in milliamps at 240v 15 MA power factor -0.95 .				
47.	Wiring is 1.1 kv grade single core stranded PVC insulated copper wire of following sizes in PVC casing -copping a)2x 4.5 sq. mm +1x2.5 sq. Mm	5	Mt	153.00	765.00
48.	b)2x2.5 sq. Mm +1x1.5 sq. Mm (As per PWD schedule 2014 ,page -E-11 ,item 1 c&e)	180	Mt	121.88	21940.00
49.	Supplying and fixing double door 2+8 way SPN, MCB distribution board Intel ,interconnection with suitable size of copper wire and neutral link &provision for earthling arrangement . ( As per PWD schedule 2014,page D-9 ,item -13)	1	NOS	1829.00	1829.00
50.	Supplying and fixing the following in the double door distribution board with necessary connection66 a) 40 A .DP isolator .	1	NOS	411.00	411.00
51.	b) 6-32 A SPMCB .	6	NOS	217.00	1302.00
52.	Supplying and fixing the working board for computer with Bakelite top cover after cutting house for switch ,socket etc consist in with the following . a)15 A 6 Pin plug socket -4 nos. b) 15 A piano type switch-4 nos c)16 A kit Kat fuse -1 nos d)indicating lamp-1 nos	20	NOS	1185.00	23700.00
53.	Supplying and fixing 5/15 Combined switch &socket with box incl. Necessary connection.	6	NOS	324.00	1944.00
54.	Supplying and fixing 15 A three pin plug top with necessary connection.	6	NOS	NOS	390.00
55.	Supplying and connection of 3 core x2.5 sq.mm flexible cable.	25	Mt	95.00	2375.00
		TOTAL		RS-40,46,131.81/-	

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