



Mahatma Gandhi University, Kerala

(Estd. By Kerala Legislature vide Notification No.3431/Leg.C1/85/Law dt.17.4.1985)

('A' Accreditation by NAAC)

DIRECTORATE FOR APPLIED SHORTTERM PROGRAMMES KOTTAYAM – 686560

Phone: 0481-2731066 Mail: dastp@mgu.ac.in

Tender No. 16493/DASTP TURNKEY/ PH I/2019

Date: 22.10.2019

NOTICE INVITING TENDER

The Registrar on behalf of The Director-in-Charge, Directorate for Applied Short-term Programmes, Mahatma Gandhi University, Kottayam, invites online bid (technical & financial bid) from reputed firms **on Turn Key Basis for Phase- I of Centralized Online Examination Facility which includes supply, installation and setting up of Online Examination facility at DASTP in the old SBT building** in the University premises. The period of the tender is **180** days from the date of tender.

Sl No	DESCRIPTION OF TENDER	
1.	Tender Title	Centralized Online Examination Facility Phase- I for 100 seating capacity
2.	Name of work	Supply, Installation and Setting up of Online Examination facility at DASTP, M G University on Turn Key Basis
3.	Tender submission fee	Rs.14,900 /- + GST (Tender fee: 0.15 % of PAC rounded to the nearest multiple of Rs. 100, subject to a maximum of Rs. 25000/- + admissible GST)
4.	Earnest money deposit (EMD)	Rs. 99,000/- (1% of the Purchase Assessment Cost (PAC), subject to a minimum of Rs. 1500/-)
5.	Expected Period of Completion of work	120 days
6.	Mode of submission of Bid	Online
7.	Tender Documents	Can be downloaded from the website www.etenders.kerala.gov.in
8.	Last date and Time of submission of tender by online	11/11/2019 4 pm
9.	Date and time of opening of technical bid	13/11/2019 11 am

General tender documents and tender schedule can be downloaded in A4 plain size paper free of cost from the web site www.etenders.kerala.gov.in

DOCUMENTS TO BE SUBMITTED THROUGH ONLINE ALONG WITH BID

1. Scanned copy of valid Registration Certificate & Dealership Certificate
2. Scanned copy of duly filled e-payment form
3. Scanned copy of other certificate/certificates required, if any, for tender acceptance
4. Scanned copy of duly filled preliminary agreement in stamp paper of Rs. 200/-
5. BOQ

SPECIAL CONDITIONS

- 1) The intended bidders can verify the proposed site and building (old SBT building) between 10.15 am and 4.45 pm on all working days till the last date of submission of tender.
- 2) Quoted price in the BOQ should be inclusive of all taxes, freight, loading & unloading / installation charges.
- 3) Details such as make, model, mode of operation etc., should be clearly mentioned in the quotation.
- 4) Quoted rates should have at least six months validity period.
- 5) The right to accept or reject the quotations without assigning any reason rests entirely with the undersigned.
- 6) The tender should be of branded quality products
- 7) Brochure of products and different models quoted should be enclosed.
- 8) If a negotiation meeting is convened by the undersigned, the authorized person of the firm should attend the meeting in time at their cost.
- 9) Payment process will be initiated only after satisfactory supply of the items and installation after receiving reports from the experts from the University.
- 10) If the date of receipt and opening of the tenders is declared a holiday, the same time of the next working day will be the last date and time for the purpose.

The bids shall be opened at the date and time specified. Further details can be had from the Directorate for Applied Short-term Programmes, Mahatma Gandhi University, Kottayam, Kerala-686560 on all working days during working hours. Phone no. 0481- 2731066 (DASTP), Mob: 9847289191 (IT Consultant), Mob: 9447507660 (University Engineer). The bidders are advised to submit their bid well in advance to avoid any kind of network problems. The under signed reserves the right to reject any or all of the tenders without assigning any reason whatsoever.

**Sd/-
Registrar**



Mahatma Gandhi University, Kerala

ELIGIBILITY CRITERIA

1	Bidder should be, a Company registered in India or registered Partnership / Proprietary firms	Copy of valid Registration certificates / Copy of Certificates of incorporation
2	Turn over shall be a minimum of average 5 Cr. during last 3 financial years.	CA certified Balance sheet proof to be attached.
3	Should not have been blacklisted by any of the Government entities under state / central Govt.	Self certificated
4	The bidder should have a registered number of 1. GST where his business is located 2. Income tax / PAN number	Copies of relevant certificates of registration
5	Should have executed projects with single order value of Rs 1.5 Cr. or with two projects of value with 75 lakhs.	Copy of work order
6	The bidder should have an office in Kerala	Documentary proof
7	The Bidder should submit Manufacturer Authorization Form (MAF) from the OEM for all the quoted products along with the technical bid	MAF

TENDER SPECIFICATIONS

Sl No	Description	Unit	Quantity
I	Networking		
a	Passive Components		
1.	Cat 6 UTP Cable. Box of 305 mtrs	Box	8
2.	Cat 6 Information outlet	Nos	100
3.	Face plate single	Mtrs	100
4.	Cat 6 patch cord. 4 ft	Nos	100
5.	Cat 6 patch cord. 7 ft	Nos	100
6.	Cat 6 patch panel loaded. 24 port.	Nos	5
7.	25 mm PVC conduit including accessories	Mtrs	1000
8.	Wallmount enclosure of dimension 600 x 15U x 500D, with front sheet steel glass door, top and bottom cover with cable entry provision openable side wall, 1 pair of 19 angle with wall mounting provision, fan 2 Nos, power strip 6 x 5A universal socket, 2M long power cord and captive hardware pack of 20	Nos	2
b	Active Components		
1.	SFP GBIC Module	Nos	1
2.	8 poer POE Switch	Nos	1
3.	Edge switch: 24 port switch: 48 RJ-45 autosensing 10/100/ 1000 ports (IEEE 802.3 Type 10BASE- T, 4 fixed SFT ports,104 Gbps switching capacity,77 Mpps switching throughput / Support Stacking / Virtualization with less than 50 ms failover and support distance of minimum 1Kms	Nos	5
c	Labour / Installation charges		
1.	UTP Cable Laying charges	Box	8
2.	Conduit laying charges	Mtrs	1000
3.	Fixing and termination of Information outlet.	Nos	100

4.	Fixing and termination of Patch panel	Nos	5
5.	Fixing of rack	Nos	2
II	EQUIPMENTS		
a.	Desktops		
1.	Lean Server: Intel Core i7 8 th Gen, 8550U, 8 GB DDR4, 16 GB OPTINE memory, 256 GB MSATA SSD, 2TB SATA	Nos	1
2.	27 U Server rack with 1000mm Depth supplied with all accessories	Nos	1
3.	Micro PC: Pentium Dual Core, 7 th Gen, 4415U, 4GB RAM, 128 GB SSD, 19.5” IPS LED, Keyboard, Mouse, 3 year warranty	Nos	100
4.	Smart Power station (SPS) : 3 Hrs battery backup for (both monitor and machine) provision for connecting 12/24 volt DC solar panel	Nos	100
5.	High Efficiency Solar Panel: 350W 72 Cell solar panel for connecting 5 machine) Brand : (Vikram Solar / Canadian Solar)	Nos	20
6.	2 Panel Structuring : Mounting Kit & Cabling for Solar Panel	Nos	10
7.	20 Amp Junction box for 2 panels	Nos	10
8.	DC point wiring for Machine	Nos	100
9.	Optoma Digital Projector Model: Ultra Short Throw	Nos	1
10.	White Board -White Coated Board Size-7’ X 5’	Nos	1
11.	Installation / Training charges	Nos	1
12.	Bio Metric Authentication and Lock	Nos	2
13.	CCTV: 6 Camera and NVR	Nos	1
b	Network Printer & Scanner		
1.	Ink tank Printer	Nos	1
2.	Thermal Printer	Nos	2
3.	Canon Lide 110	Nos	2

c	Sound Systems		
1.	Lapel Mic Shure Brand	Nos	2
2.	Hand Held Mic Shure Brand	Nos	2
3.	Mixer 8 Channel Mixer Allen & Heith	Nos	1
4.	Speaker Powered 8" Questa Brand	Nos	4
e	UPS		
1.	3 KVA UPS with 1 hour Battery backup Online Double conversion UPS	Nos	1
f	Air Conditioner		
1.	Air Conditioner 2T (LG, Whirlpool)	Nos	6
III	ELECTRICAL WORKS		
1.	Supply and wiring light point using 1 sqmm copper wire (finolux, havells, vguard) with all special such as 6 amp modular switch (Crabtree, legrand, MK) base plate, 1 light controlled by one switch including labour charge	Nos	14
2.	Supply and wiring light point using 1 sqmm copper wire (finolux, havells, vguard) with all special such as 6 amp modular switch (crabtree, legrand, MK) base plate, 4 light controlled by one switch including labour charge	Nos	8
3.	Supply and wiring light point using 1 sqmm copper wire (finolux, havells, vguard) with all special such as 6 amp modular switch (crabtree, legrand, MK) base plate, 3 light controlled by one switch including labour charge	Nos	10
4.	Supply and wiring Wall fan point using 1 sqmm copper wire (finolux, havells, vguard) with all special such as 6 amp modular switch (crabtree, legrand, MK) base plate, 1 fan controlled by one switch including labour charge	Nos	10
5.	Supply and wiring 6 amp 5 pin plug point using 1.5 sq mm copper wire with earth including supply and fixing 6 amp switch and 3 pin socket modular switch on	Nos	10

	suitable size base plate including labour charge.		
6.	Supply and Erection of 20 / 32 amp ac socket controlled by 20 / 32 amp modular switch mounted on suitable boxes	Nos	6
7	Supply and Erection of 16 amp sockets controlled by 16 amp modular switch mounted on suitable boxes	Nos	4
8.	Supply and Erection of 1 nos. 6A Socket outlet and 1no. 6A SP Switch controlling the socket outlets in independent position.	Nos	110
9.	Supply & Laying of 3R 1.5 Sqmm Insulated Copper Flexible Wire in 20 / 25 mm PVC Conduit along with all accessories clamped to wall / ceiling/ partitions or concealed as per site conditions	Mtrs	2000
10.	Supply & Laying of 3 R 2.5 Sqmm Insulated Copper Flexible Wire in 20 / 25 mm PVC Conduit along with all accessories clamped to wall /ceiling/ partitions or concealed as per site conditions	Mtrs	700
11.	Supply & Laying of 3R 4 Sqmm Insulated Copper Flexible Wire in 20 / 25 mm PVC Conduit along with all accessories clamped to wall /ceiling/ partitions or concealed as per site conditions	Mtrs	250
12.	Supply and Erection of 2 nos. 6A Socket outlet and 2 no. 6A SP Switch controlling the socket outlets in independent position.	Nos	10
13.	Supply & Erection, 32 A 4 Pole MCB housed in a suitable indoor type enclosure including all terminations, interconnections, accessories etc as required for UPS I / C	Nos	1
14.	Supply, laying, testing & commissioning of PVC insulated 1.1KV grade Conductor cables of following sizes either clamped to ceiling / wall or concealed or laid in Earth etc. The rate shall include the cost of all accessories. 4 core 35 sqmm size AL armoured cable.	Mtrs	50
15.	Supply of all materials and termination of PVC insulated armoured copper / aluminium LT cables using single compression type cable glands. Copper	Nos	2

	crimped type cable legs, cable identification tags and including glad earthing using copper conductor of 16 SWG for cables of size 6 / 10 sqmm		
16.	Plate Earth : Supply, Installation, Testing and Commissioning of 3.0 mtr long 40 mm dia GI Earth Pipe with funnel arrangement and 2R 25 X 3mm Copper Flat brazed with 600 X 600 X 3mm copper plate and bolted to the GI Pipe using SS bolts, nuts and washers etc. Copper flange & bus to be provided at top end for termination. The rate shall include excavation & refilling complete as required including heavy duty Pre Cast Cover and all associated civil works like construction of chamber and rough plastering etc as required. (UPS)	Nos	1
17.	Supply and Laying of No. 10 bare copper	Mtr	50
18.	Supply and Erection of 4 way VTPN DD MCCB DB Incomer: 80/100 Amps 4 pole MCCB - 1 No. Outgoing: Suitable MCB - 10 Nos.	Nos.	1
19.	Supply and Erection of 8way SPN DD MCB DB Incomer : 32 Amps 2 pole MCB - 1 No. Outgoing: 16 /10 / 6 Amps MCB - 6 Nos.	Nos.	1
20.	Supply and Erection of 4way TPN MCB DB (LDB) Incomer: 40 Amps 4 pole RCCB - 1 No. Outgoing: 16 /10 / 6 Amps MCB - 12 Nos	Nos.	1
21.	Supply and Erection of 6way TPN MCB DB (PDB) Incomer: 63 Amps 4 pole RCCB - 1 No. Outgoing: 20 /16 / 10 Amps MCB - 8 Nos.	Nos.	1
22.	Supply & fixing of Earth bus of sufficient length made out of 25 X 3 mm copper flat with 8mm holes drilled continuously at an interval of 25mm. All holes shall be fastened with SS bolts, Nuts & washers on either side.	Nos.	2
#	INSTALLATION OF LIGHTNING FIXTURES & FANS Supply & Installation of the following outdoor / indoor type light fittings, including supply of all materials required for erection, all wiring, terminations and interconnections, earthing from the terminal block /ceiling rose to the light fitting / luminaire		
23	LED 40-Watt 2x2 Ceiling Panel Light 4400 LUMENS (Slim, square, cool, white 6500k)	Nos	12
24.	Supply and Fixing of LED strip including driver	Mtrs	100
25.	12W ROUND WHITE LED PANEL RECESSED FALSE CEILING LIGHT (16.7cm X 16.7cm X 1.7cm) Recessed ceiling lamp	Nos	30
26.	Supply and Fixing of Wall Fan with necessary brackets,	Nos	10

	<i>clamps etc. (Crompton, Bajaj, Havells)</i>		
27.	LED PANEL LIGHT 6W ROUND WHITE SLIM Recessed Ceiling Lamp	Nos	24
IV	Furnitures & Fixtures		
1	Chairs : Providing chairs of the size 50 cm X 40 cm in Anjaly wood with hand rest and cushioned seating with jute cloth upholstery	Nos	110
2.	Storage Wardrobes : Storage Wardrobe shutters on frames in 16 mm thick BWR grade Marine plywood 2 side post formed or 4 side edge banded shutters	Sqft	70
3.	Work Station Tables : Providing and fixing Work Station Tables using 16mm ISI 303 BWR grade marine plywood legs and table top both laminated with 1mm thick Marino laminate post formed and with edge bands and open storage and drawer for 2 persons using capacity Table size: 56cm X 180cm	Nos	2
4.	SIDE PARTITION : Providing 75 mm thick wooden frame partition which includes double layer of 6mm thick e303 BWR Marine plywood with lamination, steel finished beading	Sqft	38
5.	WALL PARTITION: Providing 75 mm thick wooden frame partition which includes double layer of 6mm thick e303 BWR Marine plywood with lamination, steel finished beading.	Sqft	260
6.	Registration Table: Providing and fixing work station tables using 16mm ISI 303 BWR grade marine plywood legs and table top both laminated with 1mm thick Marino laminate post formed and with edge bands and open storage and drawer for 2 persons using capacity	Nos	2
7.	Labour & Installation charges	Nos	2
8.	Providing and fixing Work Station Tables using 16mm ISI 303 BWR grade marine plywood legs and table top both laminated with 1mm thick Marino laminate post formed and with edge bands and open storage and drawer for 4 persons using capacity Table size : 56cm x 350cm	Nos	24
9.	TEACHER CONSOLE: Teacher Console Made up of 16mm thick ISI 303 grade Marine plywood laminated with 1mm thick marino laminate post formed and with edge bands with storage space	Nos	1
10.	High Raised Lecture Floor : Wooden platforms in 15 cms height and 2 meter x 1.5 meter length in ISI 303 grade BWR 12mm marine plywood over heavyhard wood frames (3m x 1.80m) ht- 15cm	Sqft	35
V	GENERAL WORKS		

1.	Plain ceiling with Gyp board	Sqft	1600
2.	Vertical Blinds for Windows	Sqft	150
3.	Painting 2 coats primer along with putty before applying exterior plastic emulsion	Sqft	3000
4.	Flooring synthetic carpet of OBEETEE non woven (wt 875 gsm) 4 mm thick (2mtr width) laying and fixing with gum	Sqft	1800
5.	Door Controlled Entry Access cards	Nos	350

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