

Tender No:

UHKDU/PRO/SOGE/SVS/0492/2020



University Hospital Kotelawala Defence University
Werahara ,Boralesgamuwa
Sri Lanka
T:Phone: 0112044555
Fax: 0112044592
Web:

19... /04.. / 2022

INVITATION TO BID AND GENERAL CONDITIONS OF TENDER

1. The Vice Chancellor of the General Sir John Kotelawala Defence University, as the Chairman, Department Procurement Committee invites Bid/s from prospective Service **items listed in the schedule in Annex “A” The relevant specifications of the items are indicated in Annex “B”**

2. **CLOSING DATE & TIME**. The tender will close at 1400 hrs on **27/04/2022** . Any Bid submitted after the closing time of the tender will be rejected & unopened such bids will be returned to the bidder.

3. **VALIDITY OF BID**. The bid submitted under this tender **must be valid for a period of 120 days from the date of closing of tender**.

4. **BID BOND / GUARANTEE**.
(a) If the quoted bid value exceeds Rs: 2,000,000.00, such Bids should be accompanied with 1% of Bid Value an “on demand” and “unconditional” Bid Bond/Guarantee for a sum of **Rs:** in the format given in Annex “C” through a recognized local Bank or Insurance Company registered in Sri Lanka which is authorized by the Insurance Board of Sri Lanka to issue such Bid Guarantees. All Bid Bond/Guarantees should be valid for at least 30 days more than the validity period of bids, ie, for 150 days from the date of Bid opening. **Cheques will not be accepted as Bid Guarantee**.

(b) Submission of insufficient Bid Bond/Guarantee value or period will be considered as a “**major deviation**” and such offer will not be considered for further procurement action and will be rejected.

5. **VALUE ADDED TAX**. The Bidders who bid for locally delivered items must have the VAT registration. The VAT portion must be shown separately in the price schedule in Annex “A” and VAT registration number must be indicated. If the quoted item is exempted from VAT or Bidding Company is not liable for VAT, reference number and date of relevant Act number/Gazette notification/a certificate (as applicable) **issued for the current financial year** from the Commissioner General of Inland Revenue to that effect should be submitted along with the Bid.

6. **BID SUBMISSION**. The **bidder must duly sign at the last page (before Annexes) of this document** indicating the name of the signatory and the name of the company & place the company common seal to confirm the acceptance of tender conditions. **The Bid/s that do not include authorized signature will be rejected**. The Bid/s duly signed by the bidder enclosed and sealed in an appropriate cover addressed to the following address should be sent by registered post or could be deposited in the **appropriate tender box placed at University Hospital Kotelawala Defence University, Werahara** (at the Main Entrance of University Hospital Kotelawala Defence University) on or before the time & date specified for the closing of tender. **The tender reference number, date & time of closing tender should be indicated & underlined at the top left corner of the envelop**.

Tender Ref No :.....
Closing Date & Time :1400 hrs on 27/04/2022.....

The Chairman,
Department Procurement Committee,
University Hospital Kotelawala Defence University,
Werahara,
Sri Lanka.

7. The Bid/s must be submitted in the attached schedule of prices in Annex “A” as applicable. However, bidders could use similar formats prepared with their own letter heads with all the details mentioned therein and submit in **three copies along with duly signed copy of a General Conditions of tender**. The Bid/s must contain **Technical Literature, Pamphlets, Drawings and Quality Standard Certificate etc** necessary to determine characteristics of items offered and in case of Machinery/Vehicles & Equipment, servicing and workshop data/after sales service, back up facilities or any other facilities provided by the supplier.

8. **SUBMISSION OF SAMPLES/PAYMENT OF TESTING CHARGES**.
When it is required to submit samples, **every offer** must be accompanied with pre - marked samples. The marking of samples **indicating the Bidder & Offer number** must be done and the samples must be handed over to the officer at same place where tender box is placed **on or before the closing date & time of the Bid**. Samples submitted after closing time of the Bid will be rejected. The documents such as Air Way Bills etc, will not be accepted in place of samples. When the testing charges are required to be paid, bidders shall pay testing charges separately **for all offers** indicated in their bid/s.

(1) **Samples**. Please submit samples.

(2) **Testing Charges**. A sum of Rs. **per offer** must be paid to the Bursar of KDU, prior to the submission of bid and a copy of the receipt must be annexed to the bid. It is the responsibility of bidder to inform the Cashier of the Account Office to note the tender number on the receipt issued for such payments.

8. **BID OPENING**. All duly received bids **will be opened immediately after the scheduled closing time of Bids at the same venue**. Bidders or their accredited agents could be present at the time of opening of bids.

9. **PRICES**.
For locally delivered items (including locally manufactured items & foreign items imported by the bidders) price must be quoted in Sri Lankan Rupees, inclusive of all charges for delivery of items to University Hospital General Sir John Kotelawala Defence University Werahara., **Unit price, VAT and Total price should be clearly indicated in schedule in Annex “A”**. Other than VAT, all other type of taxes (eg : NBT, BTT, etc.) should not be indicated separately and should be included in unit price.

10. **RESTRICTED TENDERS**. Invitation to Bids are circulated among the registered suppliers with Ministry of Defence (MOD), only bids submitted by registered suppliers will be allowed for consideration. However, Chairman, Department Procurement Committee reserves the right to invite the bids from multiple combinations of Procurement Methods as stipulated in Chapter III of the Government Procurement Guideline, 2006 to ensure highest competitiveness.

11. **PERFORMANCE BOND/GUARANTEE.** A successful bidder shall furnish a Performance Bond/Guarantee in the form of "On Demand" & "Unconditional" Bank/Insurance Guarantee for a sum equivalent to 10% of the contract value for every contract that exceeds Rs. 2,000,000.00 or equivalent amount in foreign currency through a recognized Commercial Bank registered in Sri Lanka or through an Insurance Company authorized by the Insurance Board of loss resulting from the supplier's failure to complete his performance obligations under the contract. If the contracted supplier fails to deliver the items Sri Lanka to issue such Performance Guarantee for this purpose, **within two weeks from the date of notification of award.** The proceeds of the Performance Bond/Guarantee shall be payable to the Vice Chancellor of the General Sir John Kotelawala Defence University as compensation for any o

12. time or fails to complete the works as per the agreed contract, **THE TOTAL VALUE OF THE PERFORMANCE BOND/GUARANTEE** will be forfeited. If only partial delivery is made during the agreed contract period, the corresponding value percentage of undelivered quantity from the Performance Bond/Guarantee will be forfeited.

13. **SIGNING OF CONTRACT.** The notification of award will be transmitted to the successful bidder by post, by fax or e-mail. This notification constitutes the formation of the contract. The successful bidder should submit his written acceptance for the award and performance bond / guarantee (For awards over Rs. 500,000.00 without VAT) within 14 days of receipt of such notification. Upon acceptance of the award and furnishing of the Performance Bond/Guarantee, the successful bidder will have to enter into a formal contract with the Vice Chancellor of the General Sir John Kotelawala Defence University by signing the Contract.

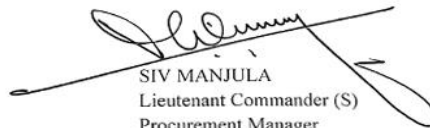
14. **DELIVERY.** Preference will be given for early delivery. In case of bulk supplies for locally manufactured items, the delivery of **total quantity must be completed within 120 days of signing of contract,** unless mutually agreed for extended delivery period with University Hospital Kotelawala Defence University. **The bidder/s must indicate the proposed delivery schedule in Annex "E".** In the event of placing a purchase order with the successful bidder, the total quantity so ordered must be supplied as one consignment unless part deliveries are agreed upon in the contract. The deliveries not made as per agreed delivery schedule will be considered as bad performances by the suppliers and **no extended delivery period will be authorized.** Under extreme unavoidable conditions too, the Chairman, Department Procurement Committee (Vice Chancellor of the General Sir John Kotelawala Defence University) reserves the right to grant or refuse delivery period extensions only within the current financial year with or without liquidated claim for delayed deliveries and that decision will be final.

15. **LIQUIDATED DAMAGES.** In case of delivery period extensions requested by the successful bidder, a sum equivalent to 2% of the total value of the delayed supply per delay of one week or part thereof may be deducted from the payment due to the supplier from the University Hospital General Sir John Kotelawala Defence University as liquidated damages up to the maximum limit of 10% of the total value of delayed supplies.

16. **PAYMENT TERMS FOR LOCALLY DELIVERED ITEMS.** Payment will be made after acceptance of items which should be subjected to a pre-acceptance inspection/testing by University Hospital General Sir John Kotelawala Defence University authorities. The delivery made to University Hospital should not be considered as quantities taken over by University Hospital General Sir John Kotelawala Defence University until items are properly accepted after pre-acceptance inspection. Any item that does not conform to the specifications or already approved sample will be rejected & it is the responsibility of the supplier to remove them from University Hospital stores/premises within 07 working days of such intimation (either verbal or written) at his own cost and replace them with items conforming to specification within one month of such rejection. The bidder shall allow approximately 60-90 days period of credit from the date of acceptance of items for Account Office, University Hospital General Sir John Kotelawala Defence University to obtain liquid cash from General Treasury & release the payment.

16. **RIGHTS OF THE PROCUREMENT COMMITTEE.** The Department Procurement Committee reserve the right to accept or reject whole or part of this tender and their decision will be final. The successful bidders will be notified. Information with regard to rejected or unsuccessful bids will not be communicated.

Thanking You
Yours Faithfully



SIV MANJULA
Lieutenant Commander (S)
Procurement Manager
For Vice Chancellor
University Hospital Kotelawala Defence University

I/We agree to abide by the conditions of tender and undertake to supply the items as per delivery schedule mentioned in the contract, in the event of an order been placed with me/my firm/company as a result of this tender.

..... Signature
..... Name of Signatory

.....Name of the Company/Bidder

Date :-

Company seal

SCHEDULE OF PRICES FOR LOCALLY DELIVERED ITEMS

S/N	ITEMS	UNIT	QTY	PRICE EACH SLRS	TOTAL PRICE SLRS
01	Annual service charges (medium voltage and low voltage power distribution system)				
	TOTAL				
	DISCOUNT				
	TOTAL(AFTER DISCOUNT)				
	VAT %				
	GRAND TOTAL				

- 2. a . Validity : 120 days from the date of closing of tender
- b . Payment term : Credit**
- c .Warranty :
- d . Brand name :
- e .Country of origi

3. VAT Registration No.:

4. Name of the Company :

5. Testing Charges Paid. : Rs.....
 No and Date:

Receipt

6. Signature of Bidder :

7. Date. :

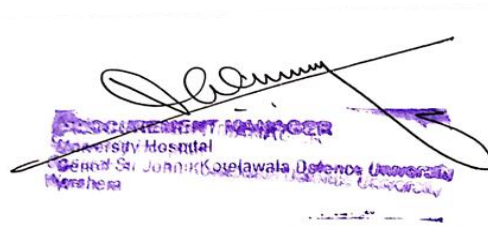
8. MOD registered No : Company Seal :



ANNUAL MAINTENANCE CONTRACT (AMC) FOR
33KV/11KV/400V POWER DISTRIBUTION SYSTEM -
UHKDU

ANNUAL MAINTAINCNE CONTRACT (AMC) FOR 33KV/11KV/400V POWER DISTRIBUTION SYSTEM (INCLUDING TRANSFORMERS) - UHKDU

1. University Hospital – KDU (UHKDU) currently consists with 8000 kVA bulk electricity supply and 2MVA X 4 generator back up power supply. Power Distribution system is consisting with 15 Nos. of transformers and a ring main unit. Therefore, UHKDU plans to call bids for AMC for maintenance and breakdown assistance from reputed firms.
2. Competitive bidders to study the work scope given by the UHKDU and quoted accordingly. Bidder should indicate suggested work scope in the adjacent column. Moreover, substantive bidders should be able to provide service demonstration in case the evaluation board demands.
3. Equipment list located in each and every premise has been given below. Therefore, bidder should provide AMC price for each premise separately and during the evaluation price for each premises and unit as indicated in the price schedule will be evaluated individually.
4. The AMC should be under the labor only category. Relevant spares should be installed during the schedule as well as during breakdowns and payments for those will be done accordingly as per the price schedule given by the bidder. Bidder should submit relevant invoices with 30 days of credit period as payment term.
5. Site visit is mandatory and bidders to schedule prior to pre bid meeting in liaise with procurement department of UHDKU. Pre bid meeting and site visit is scheduled on 10.11 2021.at 10.30Am Senior Electrical Engineer and staff will incorporate with a technical briefing and relevant single line diagrams will be provided during the site visit.
6. Bidders should correctly complete the price schedule and work scope attached herewith. Price break down for each substation and building indicated in the chart should be filled. Contract price should be included breakdown attendance and testing of cables and bus ducts. Moreover, bidder should indicate the price breakdown for 5 years of AMC in case UHKDU decides for an extension of 5 year AMC.
7. Bidder should offer spare part list along with prices, required to carry to out PPM along with the bid documents. Proposed spare part list is attached herewith.
8. Spare parts should be OEM and should carry OEM warranty in OEM indicated durations. However, UHKDU has the authority to decide the purchasing of spare parts from the bidder or local market after surveying the prevailing market prices in case by case.



 PURCHASEMENT MANAGER
 University Hospital
 General St. John's Kotejawala Dabona University
 Mysore

9. Unlimited breakdown services should be covered in the AMC. Relevant breakdown spare part cost will be borne by the UHKDU. However, labor charges for the breakdowns should be borne by the bidder.
10. Bidder's representative should be available in the premises within 01 hour when a breakdown occurs and attend repairs immediately.
11. PPM schedule should be carried out under the supervision of Charter Engineer and qualified staff. Bidder to indicate the qualifications and grades of propose staff in the bid. Moreover, bidder should indicate the advanced test equipment which are planned to be used during maintenance as well as breakdowns.
12. Bidder to indicate past works experiences on respective field with proving documents.
13. Each section mentioned in below should be serviced twice a year. Bidder should propose a time table section wise along with the tender.
14. Test reports should be submitted undersigned by a chartered engineer immediately after completion of respective tests. Comprehensive maintenance report should be submitted undersigned by a chartered engineer immediately after completion of respective service.
15. The agreement will be valid for 12 calendar months from the day it is signed. Continuing the contract will be considered by the UHKDU after evaluating the performance by the bidder end of every contract period.
16. Bidders shall indicate any special comments/suggestions along with the bid document.
17. Payment will be done in quarter basis, 25% of total contract price at each quarter. However, bidders should submit 10% of performance bond before signing the contract.
18. Tendency of breaking down the system is in a low value during the last 04 years. Therefore, supplier may consider that facts prior quoting. System inspection can be arranged during the site visit on the demand of bidders. Relevant breakdown logs and records can be inspected during the site visit



PROCUREMENT MANAGER
University Hospital
General Sir Juan y Cotelawala Dastane University
Marathra

**HIGH VOLTAGE, MEDIUM VOLTAGE AND LOW VOLTAGE SWITCH GEAR/COMPONENT
DETAILS**

1. M/V (33KV/11KV) SWITCH GEAR (SCHNEIDER BRAND)

A SUB STATION

ITEM DESCRIPTION	MODEL	RATED VOLTAGE	RATED CURRENT	QTY
Incoming S/G Set	DNF7- 02G	36kV	750A	02
Outgoing S/G Set	DNF7 - 01	36kV	750A	02
Bus Bar Riser	DNF7 - 59	36kV	1250A	01
Bus Bar VT	DNF7 - 52	36kV	-	01
Sectionalizer	DNF7-42	36kV	1250A	01
Incoming S/G Set	PIX12 - 011	12kV	750A	02
Outgoing S/G Set	PIX12 – 001	12kV	750A	01
Outgoing S/G Set	PIX12 – 001	12kV	500A	03
Incoming S/G Set	PIX12 - 011	12kV	500A	04
Outgoing S/G Set	PIX12 – 001	12kV	150A	01
Bus Bar VT	PIX12 – 001	12kV	-	03
Bus Bar Riser	PIX12 – 086	12kV	1250A	01
Bus Bar Riser	PIX12 – 086	12KV	630A	01
Bus Coupler	PIX12 – 080	12kV	750A	01
Bus Coupler	PIX12 – 080	12kV	500A	01
MLTF for SS(A)	PIX12 – 045G	12kV	6.3A	02
Transformers	Dry-Type cast resin Transformer	33KV TO11KV	8000KVA	02

C SUB STATION

ITEM DESCRIPTION	MODEL	RATED VOLTAGE	RATED CURRENT	QTY
Transformers	Dry-Type cast resin Transformer	11KV TO 400V	1250KvA	02
RM6 Unit	NE DIDI	12KV	630A	01

D SUB STATION

ITEM DESCRIPTION	MODEL	RATED VOLTAGE	RATED CURRENT	QTY
Transformers	Dry-Type cast resin Transformer	11KV TO 400V	800KvA	01
RM6 Unit	NE DIDI	12KV	630A	01

PROCUREMENT MANAGER
 General Sir John Kotelawala Defence University
 Nuwara-Eliya

E SUB STATION

ITEM DESCRIPTION	MODEL	RATED VOLTAGE	RATED CURRENT	QTY
Transformers	Dry-Type cast resin Transformer	11KV TO 400V	800KvA	01
RM6 Unit	NE DIDI	12KV	630A	01

F SUB STATION

ITEM DESCRIPTION	MODEL	RATED VOLTAGE	RATED CURRENT	QTY
Transformers	Dry-Type cast resin Transformer	11KV TO 400V	1250KvA	02
RM6 Unit	NE DIDI	12kV	630A	01

SERVICE BUILDING

ITEM DESCRIPTION	MODEL	RATED VOLTAGE	RATED CURRENT	QTY
Incoming S/G Set	PIX12 - 011	12kV	500A	02
Outgoing S/G Set	PIX12 – 001	12kV	200A	07
Outgoing S/G Set	PIX12 – 001	12kV	150A	01
Bus Bar VT	PIX12 – 032	12kV		02
Bus Coupler	PIX12 – 080	12kV	750A	01
Bus Bar Riser	PIX1212 - 086	12KV	1250A	01
Transformers	Dry-Type cast resin Transformer	11KV TO 400V	2500KVA	03
Transformers	Dry-Type cast resin Transformer	400V TO 11KV	2500KVA	01
Transformers	Dry-Type cast resin Transformer	11KV TO 400V	2000KvA	02
Transformers	Dry-Type cast resin Transformer	11KV TO 400V	1000KvA	01


 PROJECT MANAGER
 University Hospital
 Gen. St. Juan Kotelawala Defence University
 Marshala

GENERATOR PANEL

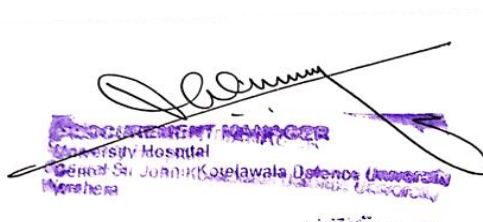
ITEM DESCRIPTION	MODEL	RATED VOLTAGE	RATED CURRENT	QTY
Power Command Panel	DMC 1000 (Freestand)	380V-415V	-	01
Generator Incoming Breakers	SACE PR 121/P	400V	3200A	04
Out Going Breakers	SACE PR 121/P	400V	4000A	04
Out Going Breakers	SACE PR 121/P	400V	3200A	02
Out Going Breakers	SACE PR 121/P	400V	1600A	01

2. LOW VOLTAGE PANELS (400V)

ITEM DESCRIPTION	MODEL	RATED VOLTAGE	RATED CURRENT	LOCATION	QTY
Low Voltage Power Distribution Panel	LV SWITCH GEAR	400V/50HZ	300-1600A	C Sub Station	01
Low Voltage Power Distribution Panel	LV SWITCH GEAR	400V/50HZ	300-1600A	D Sub Station	01
Low Voltage Power Distribution Panel	LV SWITCH GEAR	400V/50HZ	300-1600A	<u>E Sub Station</u>	01
Low Voltage Power Distribution Panel	LV SWITCH GEAR	400V/50HZ	300-1600A	F Sub Station	01
Low Voltage Power Distribution Panel	LV SWITCH GEAR	400V/50HZ	300-1600A	Service Building	03
Low Voltage Power Distribution Panel	LV SWITCH GEAR	400V/50HZ	300-1600A	Hospital Building	03
Total					10

3. UNINTERRUPTED POWER SUPPLY

ITEM DESCRIPTION	MODEL	RATED VOLTAGE	RATED CURRENT	LOCATION	QTY
Control Power Panel (UPS)	GZDW 110V/ 40A	110V	40A	A Sub Station	01
Control Power Panel (UPS)	GZDW 110V/ 40A	110V	20A	A Sub Station	01
Control Power Panel (UPS)	GZDW 110V/ 40A	110V	40A	Service Building	01
TOTAL					03


PROJECT MANAGER
St. John's Kotelawala Defence University
Mirishera

LIST OF TRANSFORMERS (DRY TYPE CAST RESIN)

SR NO.	CAPACITY (kVA)	QTY
1	8000	2
2	2500	4
3	2000	2
4	1250	4
5	1000	1
6	800	2
TOTAL		15


PROCURER/BUYER
University Hospital
Genl. St. Joann Kozelawala Defense University
Marsheha

SECTION 1 - CIRCUIT BREAKERS/ RM6 UNITS (33kV/11kV)

AREA/UNIT		UHKDU REQUIREMENT	BIDDER'S WORKSCOPE
1.1	Cubical	Cleaning cubicle / internal equipment	
		Inspection of the position indicators and signaling micro switches	
		Inspection of locking + interlocking mechanism function	
		Inspection of withdrawal mechanism	
		Inspection of the shutters	
		Cleaning / checking switch line operating mechanism	
		Cleaning / checking of isolators (tightening ,chalking, cracking , signs of heating)	
		Cleaning / checking of earthing switch operating mechanism	
		Cleaning / checking / greasing of earthing switch plugs	
		Cleaning / checking / greasing of shutter locking system	
1.2	CT/VT Compartment	Cleaning / inspection of isolators (chalking, cracking , signs of heating)	
		Cleaning / inspection of TPs (tightening ,chalking, cracking , signs of heating)	
1.3	Bus bar Compartment	Inspection of bus bars (cleaning, tightening ,chalking, cracking, signs of heating)	
		Inspection of isolator switches (cleaning, tightening ,chalking, cracking, signs of heating)	
1.4	Circuit Brakes	General state: visual checking, cleanliness, insulator condition, oxidation, no corrosion of supporting structure	
		Checking of number of operation	
		Cleaning of resin bodies	
		Inspection of state of the auxiliaries contact (on/off, rack in, rack off etc.)	
		Inspection of functional and safety interlock on device	
		Cleaning / checking / greasing of the power contacts (plugs , sliding contact , light greasing)	
		Measurement of main contact resistance (micrometer)	
		Cleaning /checking / greasing of the moving withdrawal parts	

		Checking of coupling rods	
		Cleaning / checking / greasing of the operating mechanism	
		Cleaning / checking / greasing of the latching mechanism	
		Cleaning / checking / greasing of the closing and opening springs	
		Cleaning / checking / greasing of the motor and reduce	
		Cleaning / checking / greasing of all linkages	
		Check LV electrical wiring connections	
1.5	Tests	Mechanical (manual on/off)	
		Electrical (remote on/off)	
1.6	Associated protection	Inspection of protection relay (setting , tripping functions)	
		Inspection of upstream / downstream selectivity	
1.7	Checks	ProDiag Breaker Monitors opening / closing / spring-loading operations drifts	
		Checking / adjusting of condition of the damper and / or stop device	
		Checking of opening / closing times and speeds	
		Checking of charging time	
		Checking of contact synchronization	
		Checking of safety to close (over travel and stabilization)	
		Checking of safety to open (over travel and stabilization)	
		ProDiag Corona Surface/internal partial discharges detection.	

Note: Bidder to indicate/suggest any maintenance/PPM apart from above below.

Principal Engineer
University Hospital
General Sa. J. J. K. S. Jayawala Defense University
Mawhera

SECTION 2 - PROTECTION RELAYS

AREA/UNIT		UHKDU REQUIREMENT	BIDDER'S WORKSCOPE
2.1	Preventive Maintenance	Inspection of protection measured values, alarms, battery status through HMI	
		Inspection of connections	
		Inspection of wiring	
		Inspection of tripping circuits	
		Checking of tripping curves	
		Inspection of protection settings	
		Downstream / upstream blocking or permissive scheme	
2.2	Settings	Checking / updating of electrical network settings	
		Equipment upgrade	
		Software upgrade (digital relays)	
2.3	Diagnosis	Inspection of tripping circuits	
		Checking of tripping curves	
		Inspection of protection settings	

Note: Bidder to indicate/suggest any maintenance/PPM apart from above below.



Procurement Manager
General Sir John Kotelawala Defence University
Nuwara-Eliya

SECTION 3 - TRANSFORMERS

AREA/UNIT		UHKDU REQUIREMENT	BIDDER'S WORKSCOPE
3.1	Visual Inspection	Inspection of connections (heating, discharges, etc.)	
		Inspection of magnetic circuit appearance	
		Inspection of degradation of surface coating and transformer components	
		Inspection of visual leakages (Crack for CRT)	
		Checking of environmental issues (pollution / fires)	
		Checking of winding	
3.2	Cleaning	De-dusting	
		Cleaning of transformer compartment	
		Cleaning of bushing (and winding for CRT)	
3.3	Verification / Repairs	Checking of transformer's protection systems	
		Checking of air dryer and repair if needed	
		Checking of accessories (temperature probe, ...)	
		Leakage repair	
3.4	Tests	Noise test	
		LV electrical testing (coupling, isolation resistance, ...)	
		MV electrical testing (coupling, isolation resistance, ...)	
3.5	Upgrading	IP housing for electrical safety	
		Installation of spike protector device (SPD)	
		Installation of temperature control relay	
3.6	Diagnosis	Basic analyses	
		PCB content analysis	
		Dissolved gas / furanic analyses	
		Endoscopy	

Note: Bidder to indicate/suggest any maintenance/PPM apart from above below.

Handwritten signature and official stamp of the Procurement Manager at General Sir John Kotelawala Defence University, Mirishera.

SECTION 4 – 400V SWITCH BOARDS

SECTION 4 – 400V SWITCH BOARDS		
AREA/UNIT	UHKDU REQUIREMENT	BIDDER'S WORKSCOPE
4.1	Enclosure	Efficiency / presence of interlocking devices
		Cover panel / partition: doors, form covers, automatic shutters, screws, keys
		Inspection of general appearance: cleanliness, presence of humidity/oxidation
		Inspection of strain
		De-dusting of switchboard
4.2	Indications	Inspection of indicators (indicator lights, mechanical indicators, etc.)
		Checking signaling / measuring equipment values
4.3	Connections	Inspection of heating
		Inspection of power connections: bus bars, terminations, bus bar supports.
		Inspection of downstream power connections: connecting pads, cable mechanical strength
		Inspection of earth connections. continuity of the grounds
		Inspection of clamp connections: wear / greasing
		Inspection of cable connections (tightening, fixing)
		Inspection of auxiliary connections
		Checking of shutter moves freely
		Checking of drawer locks operates correctly
		Cleaning / greasing of slides
		Checking of condition of collector
		Checking of isolation
		LV plug-in drawers
		Inspection / cleaning of the drawer
Inspection of safety devices (tripping on withdrawal, interlocks)		
Drawer connection tests		
4.4	Switchgear / Control gear	De-dusting
		Inspection of opening / closing
		Inspection of switchgear wearing parts: main contacts, arcing chamber.
4.5	Diagnosis	ProDiag Thermography. Identifies hot spots suffering from overheating due to bad connections, harmonics, overloads

Note: Bidder to indicate/suggest any maintenance/PPM apart from above below.

SECTION 5 - POWER FACTOR CORRECTION

AREA/UNIT		UHKDU REQUIREMENT	BIDDER'S WORKSCOPE
5.1	Inspections(Power On)	Inspection of variable metric regulator (cos phi set-up, delay, C/K, steps)	
		Check current (A) at the general incomer to the capacitor bank	
		Check current at incomer to each step with forcing of step	
		Check THDU, THDI (rate of voltage and current harmonic distortion)	
5.2	Inspections(Power Off)	Check capacitors are discharged after lock-out	
		Clean / dust removal from ventilation system and the whole of the bank	
		Check condition of components (capacitors, switches, and fuses)	
		Check capacitance values with a capacitance meter	

Note: Bidder to indicate/suggest any maintenance/PPM apart from above below



[Handwritten Signature]
PROCUREMENT MANAGER
University Hospital
General Sir John Kotelawala Defence University
Moratuwa

SECTION 6 – CABLES/BUSBARS

<u>SECTION 6 – CABLES/BUSBARS</u>		
AREA/UNIT	UHKDU REQUIREMENT	BIDDER'S WORKSCOPE
6.1	Cables	Inspection of cables (chalking, signs of heating, insulation)
		Inspection of wiring connections (tightening, fixing, insulation)
6.2	Bus Ducts	Inspection of bus bars (cleaning, tightening ,chalking, cracking, signs of heating)
		Inspection of isolator switches (cleaning, tightening ,chalking, cracking, signs of heating)


PURCHASING MANAGER
University Hospital
Genl St. Joann (Sotelawala Defense University)
Marsheha

SECTION 7 - UPS


AREA/UNIT		UHKDU REQUIREMENT	BIDDER'S WORKSCOPE
71	UPS	Visual inspection of the UPD	
		Electrical measurement and states	
		Checking and correction of all parameters, equipment	
		Rectify any apparent faults and cleaning	
7.2	Battery storage	Visual inspection	
		Each battery terminal voltage test	
		Battery analyzing	
		Adjustments and corrections	



[Handwritten Signature]
PROCUREMENT MANAGER
University Hospital
General Sir John Kotelawala Defence University
Mirisheera

PRICE SCHEDULE

SR NO.	YEAR	AMC PRICE (Rs.)				
		1 st Year	2 nd Year	3 rd Year	4 th Year	5 th Year
01	A SUB STATION					
02	C					
03	D					
04	E					
05	F					
06	MAIN BUILDING					
07	LOW VOLTAGE PANELS					
08	UPS					
TOTAL						


ADMINISTRATIVE MANAGER
University Hospital
Gen. St. Joana (Kolejawa) Deleno, Unswasta
Marsheha

SPARE PART LIST

	SPARE PART	PRICE (RS.)
	Relay, LV Fuse	
	Auxiliary Contact	
	Tripping coil	
	Mitop for switch	
	Under voltage coil	
	Motor	
	Gear motor	
	Operating mechanism	
	Capacitive insulator	
	Earthing cluster	
	Relay, LV Fuse	
	Auxiliary Contact	
	Tripping coil	
	Mitop for switch	
	Under voltage coil	
	Motor	
	Gear motor	
	Operating mechanism	
	RS485 interface / Communication module	
	Input / Output module	
	Sensor module	
	Battery	
	Auxiliary equipment (temperature probe, ...)	
	Air dryer (Silica gel)	
	Desiccant breather	
	Accessories (spike protector, cable box, ...)	
	MV connections	
	DGPT2 (ProDiag Transformer Relay recommendation)	
	Gasket	
	Tripping micro switch unit	
	Limit switch	
	Mechanical reset relay	
	Tripping cable	


MANAGEMENT MANAGER
University Hospital
Genet St. Joannik (Kotajwala, Dehenor, University)
Marsheha

	Relay, LV Fuse	
	Auxiliary Contact	
	Tripping coil	
	Earthing switch clusters	
	Pressure switch (gas version)	
	Electromagnetic coil	



A handwritten signature in black ink is written over a purple rectangular stamp. The stamp contains the following text: "FACULTAD DE INGENIERIA", "Universidad Nacional", "Calle de Juan José de la Cruz, 1000, Lima, Perú", and "Perú".

DELIVERY SCHEDULE

(IT IS MANDATORY TO FILL THE FOLLOWING SCHEDULE BY THE BIDDER) TENDER NO :

ITEM : QTY :

.....

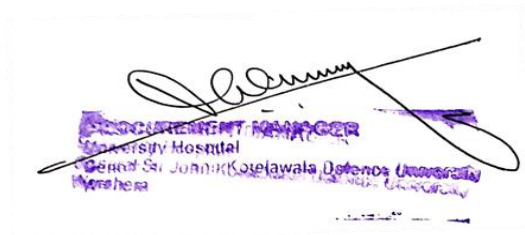
DURATION	QTY
EX STOCK QTY (WITHIN 01 WEEK)	
01MONTH	
02 MONTHS	
03 MONTHS	
04 MONTHS	
TOTAL	

NAME OF THE BIDDER :

SIGNATURE OF BIDDER :

DATE :

COMPANY SEAL :



ANNEX "D"

SPECIMEN FORM OF BID SECURITY

By this Bond we (hereinafter called "the Bidder") and We (name of bank or insurance company) whose registered office is at (hereinafter called "the Surety") are held and firmly bound onto (hereinafter called the Authority") in the sum of for the payment of which sum the Bidder and the Surety bind themselves their successors and assigns jointly and severally by those presents.

Whereas the authority has invited the Tender and other persons to compete tenders in similar terms for the supply of and to submit the same for the consideration of the Authority, and the Bidder proposes to submit to the Authority a Bid (hereafter called "the Bid") in accordance with such invitation, the Bond shall provide security to the Authority that the Bidder will honour certain obligations to be undertaken by him in the Tender in accordance with the following conditions.

Now the Conditions of this Bond are:

- (a) That it shall remain in full force and effect until the earliest of
 - (i) (Date), being () days from (submission date), the date stipulated by the Authority for the submission of tenders, or any prolongation of such date above notified to the Authority by the Bidder and the Surety in writing.
 - (ii) In the event of acceptance of the Tender by the Authority, the date upon which the Bidder provides a performance security to the Authority in accordance with the terms of the contract thereby made between them, or
- (b) Subject to this Bond being in full force and effect, the Surety shall pay the full amount specified in this Bond upon receipt of first written demand form the Authority stating that.
 - (i) The Bidder has withdrawn his Tender during the validity of this Bond, or
 - (ii) The Bidder has failed to provide a performance security to the Authority in accordance with the terms of the tender within 14 days from receipt of intimation of award of the Tender.

No alteration in the terms of the Tender, nor any forbearance of forgiveness in or in respect of neither any matter or thing concerning the Tender on the part of the Authority, nor any objection from the bidder shall in any way release the Surety from any liability under this Bond.

The benefit of this Bond shall not be assignable by the Authority and upon its ceasing to be in full force and effect the Authority shall return the same to the Bidder.

This Bond shall be governed by the laws of Sri Lanka

I executed as a deed on this () day of () 20 ()

For and on behalf of the Bidder

For and on behalf of the Surety

Signed by -----

Signed by -----

In the capacity of -----

In the capacity of -----

and by -----

and by -----

In the capacity of -----

In the capacity of -----

Seal (where applicable)

Seal (where applicable)

