Tender No:		University Hospital Kotelawala Defence University Werahara ,Boralesgamuwa
UHKDU/PRO/SOGE/SVS/0492/2020	INIVERSITY HOSPITAL	Sri Lanka T:Phone: 0112044555 Fax: 0112044592
	General Sir John Kotelawala Defence University	Web:
		12 /11 / 2021
INVITATION TO BID AND GENERAL CONDITIONS OF T	ENDER	
1. The Vice Chancellor of the General Sir John Kotelawala E from prospective Service items listed in the schedule in Annex "		
2. CLOSING DATE & TIME . The tender will close at 140 rejected & unopened such bids will be returned to the bidder.	00 hrs on 17/11/2021 Any Bid su	abmitted after the closing time of the tender will be
3. VALIDITY OF BID. The bid submitte of tender .	d under this tender must be valid	for a period of 120 days from the date of closing
4. BID BOND / GUARANTEE. (a) If the quoted bid value exceeds Rs: 2,000,000 "unconditional" Bid Bond/Guarantee for a sum of Rs: Insurance Company registered in Sri Lanka which is authoriz Bond/Guarantees should be valid for at least 30 days more than the not be accepted as Bid Guarantee.	in the format given in the format given in the by the Insurance Board of S	ri Lanka to issue such Bid Guarantees. All Bid
(b) Submission of insufficient Bid Bond/Guaranted considered for further procurement action and will be rejected.	e value or period will be considered	d as a "major deviation" and such offer will not be
5. VALUE ADDED TAX. The Bidders who bid for loc separately in the price schedule in Annex "A" and VAT registrat Company is not liable for VAT, reference number and date of current financial year from the Commissioner General of Inland I	ion number must be indicated. If t relevant Act number/Gazette notif	fication/a certificate (as applicable) issued for the
6. BID SUBMISSION. The bidder must of the signatory and the name of the company & place the companinclude authorized signature will be rejected. The Bid/s duly following address should be sent by registered post or could be a Defence University. Werahara (at the Main Entrance of Universithe closing of tender. The tender reference number. date & timenvelop.	ny common seal to confirm the accessigned by the bidder enclosed and deposited in the appropriate tendenty Hospital Kotelawala Defence University Hospital Hospital Kotelawala Defence University Hospital H	d sealed in an appropriate cover addressed to the er box placed at University Hospital Kotelawala niversity) on or before the time & date specified for
Tender Ref No Closing Date & Time:	The Chairman, Department Procurement Come University Hospital Kotelawala Werahara, Sri Lanka.	
7. The Bid/s must be submitted in the attached schedule prepared with their own letter heads with all the details mention Conditions of tender. The Bid/s must contain Technical Liter determine characteristics of items offered and in case of Machin facilities or any other facilities provided by the supplier. 8. SUBMISSION OF SAMPLES/PAYMENT OF TEST. When it is required to submit samples, every offer must be accordanced.	ned therein and submit in three corature, Pamphlets, Drawings and ery/Vehicles & Equipment, services ING CHARGES. Inpanied with pre - marked samples	opies along with duly signed copy of a General d Quality Standard Certificate etc necessary to ing and workshop data/after sales service, back up

& 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. Please submit samples. 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.

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.

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 email. 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. **LIOUIDATED 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.

TMCL Weerasinghe Commander (S) Procurement Manager For Vice Chancellor

Thanking You, Yours Fiathfully,

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

SCHEDULE OF PRICES FOR LOCALLY DELIVERED ITEMS

S/N	ITEMS	UNIT	QTY	PRICE EACH SLRS	TOTAL PRICE SLRS
	ANNUAL SERVICE CHARGES (MEDIUM				
	VOLTAGE AND LOW VOLTAGE POWER				
	DISTRIBUTION SYSTEM)				
	TOTAL				
	DISCOUNT				
	TOTAL(AFTER DISCOUNT)				
	VAT %				
	GRAND TOTAL				

2.	a. Country of Manufact	ure :	
•	b. Name of the manu	facturer and address :	
3.	VAT Registration No.:		
4.	Name of the Company	:	
5.	Testing Charges Paid.	: Rs	Receipt No and Date:
6.	Signature of Bidder	:	
7.	Date.	:	
8.	MOD registered No.	: Compa	ny 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.
- Equipment list located in each and every premise has been given below. Therefore, bidder should provide 3. 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 02.11 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.
- 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.

Hospital John Kotelawala Defence University

- 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

Seneral Sir John Kotelawala Defence University

prahera

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	33KV	8000KVA	02
	resin Transformer	TO11KV		

C SUB STATION

ITEM DESCRIPTION	MODEL	RATED VOLTAGE	RATED CURRENT	QTY
Transformers	Dry-Type cast resin	11KV TO 400V	1250KvA	02
	Transformer			
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

E SUB STATION

ITEM DESCRIPTION	MODEL	RATED VOLTAGE	RATED CURRENT	QTY
Transformers	Dry-Type cast	11KV TO	800KvA	01
	resin	400V		
	Transformer			
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	11KV TO	2500KVA	03
	resin	400V		
	Transformer			
Transformers	Dry-Type cast	400V TO	2500KVA	01
	resin	11KV		
	Transformer			
Transformers	Dry-Type cast	11KV TO	2000KvA	02
	resin	400V		
	Transformer			
Transformers	Dry-Type cast	11KV TO	1000KvA	01
	resin	400V		
	Transformer			

GENERATOR PANEL

ITEM DESCRIPTION	MODEL	RATED VOLTAGE	RATED CURRENT	QTY
Power Command Panel	DMC 1000	380V-415V		01
	(Freestand)			
Generator Incoming	SACE PR 121/P	400V	3200A	04
Breakers				
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	LV	400V/50HZ	300-1600A	C Sub	01
Distribution Panel	SWITCH			Station	
	GEAR				
Low Voltage Power	LV	400V/50HZ	300-1600A	D Sub	01
Distribution Panel	SWITCH			Station	
	GEAR				
Low Voltage Power	LV	400V/50HZ	300-1600A	E Sub	01
Distribution Panel	SWITCH			<u>Station</u>	
	GEAR				
Low Voltage Power	LV	400V/50HZ	300-1600A	F Sub Station	01
Distribution Panel	SWITCH				
	GEAR				
Low Voltage Power	LV	400V/50HZ	300-1600A	Service	03
Distribution Panel	SWITCH			Building	
	GEAR				
Low Voltage Power	LV	400V/50HZ	300-1600A	Hospital	03
Distribution Panel	SWITCH			Building	
	GEAR				
	•	Total			10

3. <u>UNINTERRUPTED POWER SUPPLY</u>

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

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

	SECTION 1 - CIRCUIT BREAKERS/ RM6 UNITS (33kV/11kV)				
	AREA/UNIT	UHKDU REQUIREMENT	BIDDER'S WORKSCO PE		
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)			
		videning (signs of nouning)			
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			

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) Inspection of protection relay (setting , tripping functions) Inspection of upstream / downstream selectivity 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 opening / closing times and speeds Checking of contact synchronization Checking of safety to close (over travel and stabilization) ProDiag Corona Surface/internal partial discharges detection.			Checking of coupling rods	
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Checking of safety to open (over travel and stabilization) ProDiag Corona Surface/internal partial discharges			Checking of safety to close (over travel and	
stabilization) ProDiag Corona Surface/internal partial discharges			stabilization)	
stabilization) ProDiag Corona Surface/internal partial discharges			Checking of safety to open (over travel and	
			1 ,	
			ProDiag Corona Surface/internal partial discharges	

	SECTION 2 - PROTECTION RELAYS				
	AREA/UNIT	UHKDU REQUIREMENT	BIDDER'S WORKSC OPE		
		Inspection of protection measured values, alarms, battery status through HMI			
		Inspection of connections			
2.1	Preventive	Inspection of wiring			
2.1	Maintenance	Inspection of tripping circuits			
		Checking of tripping curves			
		Inspection of protection settings			
		Downstream / upstream blocking or permissive scheme			
	1				
		Checking / updating of electrical network settings			
2.2	Settings	Equipment upgrade			
		Software upgrade (digital relays)			
	T				
		Inspection of tripping circuits			
2.3	Diagnosis	Checking of tripping curves			
		Inspection of protection settings			

	SECTION 3 - TRANSFORMERS				
	AREA/UNIT	UHKDU REQUIREMENT	BIDDER'S WORKSCOPE		
		Inspection of connections (heating, discharges, etc.)			
		Inspection of magnetic circuit appearance			
		Inspection of degradation of surface coating and			
3.1	Visual Inspection	transformer components			
		Inspection of visual leakages (Crack for CRT)			
		Checking of environmental issues (pollution / fires)			
		Checking of winding			
	T				
		De-dusting	4		
3.2	Cleaning	Cleaning of transformer compartment	_		
		Cleaning of bushing (and winding for CRT)			
		Charling of transformaris protection systems			
	V .C /	Checking of transformer's protection systems	_		
3.3	Verification / Repairs	Checking of air dryer and repair if needed	_		
		Checking of accessories (temperature probe,)	_		
		Leakage repair			
		Noise test			
		LV electrical testing (coupling, isolation resistance,	7		
3.4	Tests)			
		MV electrical testing (coupling, isolation resistance,	7		
)			
	<u> </u>		1		
2.5	T.T. 1'	IP housing for electrical safety	_		
3.5	Upgrading	Installation of spike protector device (SPD)			
		Installation of temperature control relay			
		Basic analyses			
		PCB content analysis			
3.6	Diagnosis	Dissolved gas / furanic analyses			
		Endoscopy			
	1	Lineoscopy	1		

	SECTION 4 – 400V SWITCH BOARDS				
A	REA/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 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			

	<u>SI</u>	ECTION 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)	
			Γ
5.2	Inspections(Power	Check capacitors are discharged after lock-out	
	Off)	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	

	SECTION 6 – CABLES/BUSBARS					
AREA/UNIT		UHKDU REQUIREMENT	BIDDER'S WORKSCO PE			
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)				
0.2	Dus Ducts	Inspection of isolator switches (cleaning, tightening ,chalking, cracking, signs of heating)				

		<u>SECTION 7 - UPS</u>	
	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	

PRICE SCHEDULE

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

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	

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

ANNEX "C"

of

SPECIMEN FORM OF BID SECURITY

		STEC	IVIEN FORIVI	OF DID SE	COMIT			
success	registered ors and ass Whereas	d office is at	(hereinafter fo se presents. ne Tender and	(hereinaf called or the paym other per	recalled "the Bidder") and We (name of bank or insurance company) ter called "the Surety") are held and firmly bound onto the Authority") in the sum of nent of which sum the Bidder and the Surety bind themselves their sons to compete tenders in similar terms for the supply of			
submit accorda him in t	the same f ince with so the Tender	for the consideration of the Auth	nority, and the lovide security to	Bidder prop	poses to submit to the Authority a Bid (hereafter called "the Bid") in rity that the Bidder will honour certain obligations to be undertaken by			
	(a)	(a) That it shall remain in full force and effect until the earliest of						
			() days from (submission date), the date stipulated by the Authority for the submission of tenders, or h 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 prosecurity to the Authority in accordance with the terms of the contract thereby made between them, or							
	(b) first writ	(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.						
Tender					giveness in or in respect of neither any matter or thing concerning the any way release the Surety from any liability under this Bond.			
return tl	he same to	efit of this Bond shall not be as the Bidder. nd shall be governed by the laws		Authority	and upon its ceasing to be in full force and effect the Authority shall			
	I executed as a deed on this (For and on behalf of the Bidder) day of () 20)			
					For and on behalf of the Surety			
	Signed b	oy			Signed by			
	In the ca	apacity of			In the capacity of			
	and by				and by			
	In the ca	apacity of			In the capacity of			
	Seal (wh	nere applicable)			Seal (where applicable)			

DELIVERY SCHEDULE

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

ITEM :			QTY		
DURATION		QTY			
EX STOCK QTY (WITHIN 01 WI	EEK)				
01MONTH					
02 MONTHS					
03 MONTHS					
04 MONTHS					
TOTAL					
NAME OF THE BIDDER	:				
SIGNATURE OF BIDDER	:				
DATE	:				
COMPANY SEAL	::				
	Univers	UREMENT MA WITHOSPITAL Sir John Kotelar	NAGER wala Defence University		