COMSATS Institute of Information Technology
Lahore Campus, Defence Road, Off Raiwind Road, Lahore

Tender No. CIIT-TN-13-17-923
Case # 2119

Title of Tender: **Biopolar Programmable Power Supply for Dr. Farasat Iqbal Department of IRCBM**

TERMS AND CONDITIONS
[All pages (BoQs & Terms & Conditions) are mandatory to be signed / stamped, failing which the bid may be rejected.)

1. ***Any addition, deletion or modification of any clause of the procurement terms & conditions/ BoQs of CIIT by any vendor will not be acceptable and may lead to rejection of the bid.***

2. ***Only registered Suppliers, who are on Active Taxpayers List (ATL) of FBR, are eligible to participate in tender.***

3. The contract will be executed and handed over in satisfactory conditions up to the entire satisfaction of COMSATS Institute of Information Technology, Lahore Campus.

4. Documents along with Pay Order / Demand Draft amounting to **Rs. 500/-** as a tender documents fee (Non-Refundable) shall be submitted in favor of COMSATS Institute of Information Technology, Lahore to the address given below. No bid will be accepted without tender documents' fee.

5. Part / Advance payments is not allowed.

6. The exact completion/delivery time **is 90 Days which shall be considered from the date of LC Opening**. The handing over / completion time for this contract is of critical importance.

7. **The bid proposal must be quoted inclusive of all freight and packing charges in C&F and to be delivered at Lahore Airport. COMSATS Lahore shall open the LC and shall also clear the shipment from Custom Authorities.**

8. After opening of bids, COMSATS Institute of Information Technology, Lahore Campus will examine the bids for completeness as per tender document.

9. Purchase order (s) will be awarded to the successful bidder as per the evaluation criteria on the basis of item wise / subtotal wise / grand total wise as mentioned in BoQs.

10. The bid should be submitted in a sealed envelope up to **August 30, 2017** on or before **1400hrs** and will be opened on the same date **at 1430hrs** in the presence of available bidders.

11. COMSATS Institute of Information Technology, Lahore Campus, will follow the PPRA rule of **single stage two envelope procedure;**

    i. The bid shall comprise a single package containing **two separate envelopes.** Each envelope shall contain separately the **financial proposal** and the **technical proposal;**

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ii. The envelopes shall be marked as **"FINANCIAL PROPOSAL" and "TECHNICAL PROPOSAL"** in bold and legible letters to avoid confusion**;**

iii. Initially, only the envelope marked **"TECHNICAL PROPOSAL"** shall be opened**;**

iv. The envelope marked as **"FINANCIAL PROPOSAL"** shall be retained in the custody of the procuring agency without being opened;

v. The procuring agency shall evaluate the technical proposal in a manner prescribed in advance, without reference to the price and reject any proposal which does not conform to the specified requirements;

vi. During the technical evaluation no **amendments** in the technical proposal shall be permitted;

vii. The financial proposals of bids shall be opened publicly at a time, date and venue announced and communicated to the bidders in advance;

viii. After the evaluation and approval of the technical proposal the procuring agency, shall at a time within the bid validity period, publicly open the financial proposals of the technically accepted bids only. The financial proposal of bids found technically nonresponsive shall be returned un-opened to the respective bidders;

ix. The bid found to be the lowest evaluated bid shall be accepted.

12. The envelope should be marked as under;

Secretary, Purchase Committee
COMSATS Institute of Information Technology, Lahore Campus
Defence Road, Off Raiwind Road, Lahore.
Tel: 042-111-001-007, Ext: 875

13. The envelope shall also bear the word **"CONFIDENTIAL"** and the Title of procurement of **"Biopolar Programmable Power Supply for Dr. Farasat Iqbal Department of IRCBM".**

14. The bid form (BoQs) must be duly filled in, stamped and signed by the authorized representative of the bidder.

15. If the vendor fails to deliver the goods / services to CIIT-Lahore in time then the penalty will be charged as under:-

a. 1% per day of the invoice price for 5 working days.
b. 2% per day of the invoice price for further 5 working days.
c. If the vendor fails to deliver the goods / services during the extended period then the purchase / work order may be cancelled, earnest money and payment may be forfeited.

16. If the delivered goods / services are not according to the required quality standards / specifications, the same shall be liable to be rejected after inspection. The vendor would be required to supply as

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per requirements mentioned in our BoQs, otherwise the purchase / work order will be cancelled after due date with confiscation of earnest money.

17. Deduction of Income Tax and any other tax will be deducted at source according to Government prevailing rules.

18. All prices should be quoted on **C&F Basis (inclusive all freight & packing charges).**

19. All prices should be valid for at least **90 days.** Withdrawal or any modification of the original offer within the validity period shall entitle CIIT to forfeit the earnest money in favor of the CIIT and / or put a ban on such vendor participation in CIIT tenders / works.

20. It is the sole responsibility of the agent / supplier / manufacturer to comply with the applicable laws, be national or international.

21. In case of any dispute or grievance, the matter shall be addressed as per PPRA rules.

22. The CIIT reserves the right to modify the quantities of goods / services at any time before the award of purchase / work order.

23. The Successful/lowest bidder is required to submit the 05% of the total value of Purchase Order as a retention money in form of Call Deposit Receipt/ Local Bank Guarantee with the validity of Warranty Time Period i.e. 18 Months in favor of COMSATS Institute of Information Technology Lahore Campus and it will be released after the completion of warranty period, which start from the date of completion of work / installation.

24. The bidder is required to furnish in form of Bank deposit / CDR / Pay order equivalent to 2% of the total Bid price as Earnest Money crossed in favor of "COMSATS Institute of Information Technology, Lahore Campus". Any bid not accompanied by Earnest Money shall be rejected without any right of appeal.

25. COMSATS Institute of Information Technology, Lahore Campus reserves the rights to accept or reject the bid if;
    i. Received without earnest money
    ii. Received later than the date and time fixed for tender submission
    iii. The tender is unsigned/ unstamped
    iv. The offer is ambiguous
    v. The offer is conditional
    vi. Offer is made by the unauthorized agent/ supplier of the original equipment manufacturer.
    vii. The offer is from a firm, which is black listed by any Govt. Office.
    viii. The offer is received by telephone/telex/fax/telegram.
    ix. Any unsigned / ambiguous erasing, cutting / overwriting etc. is made.

26. The bidder should furnish a certificate as worded below in token of acceptance of all the terms and conditions of the tender. Otherwise the tender will not be considered under any circumstances.

27. The undersigned affirm that the terms and conditions as contained in this document have been read and accepted and that in the event of selection of my/our rate the agreement in the prescribed form will be entered into:

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- **Company / Vendor Name:**……..…….……...
- **Postal Address:**…….
- **Tel. / Mobile:**……..……**Email:**…….……...…
- **NTN# :**…….**GST#:**……..……
- **Signature:** ……..
- **Please also attach the Certificate supporting being Active Taxpayer as per requirement of FBR.**

BoQs of Biopolar Programmable Power Supply for Dr. Farasat Iqbal Department of IRCBM

Technical Portion (Please mention the quoted model/ brand in technical portion with no mention of price otherwise the bid will be rejected)

No change in the BoQs (Specs & Qty.) of CIIT, as detailed below, is allowed. Any additional information may be mentioned in the blank columns (i.e. model / brand or Price). Any modification in CIIT's BoQ may lead to rejection of bid (fully or partially).						**Quoted Model Brand with meeting the all specifications**
Sr. #	**Equipment Name**	**BoQs/Specification**		**Qty**		
1	**Bipolar Programmable Power Supply**	It is to be a Power Supply with Bipolar mode and programming function to set a range of current/voltage wave forms. It is to be able support four-quadrant operation. It is to be operative at CV (constant voltage), and CC (constant current) mode.		**01**	**No.**	
		Operation Modes: It is to be operative at DC mode (DC and fine signal source) and AC mode (Ac signal Source)				
		DC Modes Features	**Voltage (CV) Range:** 0.0 V to ± 80 V, (Fine Mode 0.0 to ± 4V) **Resolution:** (DC Mode 0.002 V) (Fine mode 0.0002V) **Accuracy:** ± (0.05% of setting +0.05 % of rtg)			
			Effective Current (CC) Range: 0.0 A to ± 5A **Resolution:** (DC mode 0.001A) Fine mode 0.0001 A) **Accuracy:** ±0.3 % of rtg			
		AC Mode Features	**Effective Voltage (CV) Range:** **0**.0V to ± 80V **Resolution:** 0.1 V			

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	Effective Current (CC): 0.0 to 5A **Resolution:** 0.01A
	Accuracy: ± 0.5% of rtg
	AC Frequency Range: 0.01-100 kHz **Resolution:** 0.01 Hz
	Sweep: Linear and Logarithmic **Sweep Time:** 100µs to 1000 s (resolution of 100µs)
Wave Functions	Setting of Sine Wave, Square wave, triangle waves and 16 user-defined arbitrary waveforms. **Start Phase range:** 0º to 359º **Square wave duty cycle:** 0.1% to 99.9 % (f < 100 Hz), 1% to 99% (100 Hz ≤f < 1 kHz), 10% to 90% (1 kHz ≤f < 10 kHz), and fixed to 50% (10 kHz < f)
Protection Features	It is to be with over voltage, over current, over heat protection. The power limit (sink limit) is to be around 200W.
Interface Features	**Software protocol:** IEEE Std 488.2-1992 **Command Language:** Complies with SCPI Specification 1999.0 or equivalent
	RS232C: Complies with EIA232D specifications or equivalent
	GPIB: Complies with IEEE Std 488.1-1987 or equivalent
	USB: Complies with the USB 2.0 Specifications. Data Rate: 12 Mbps (full speed)
	LAN (factory option): IEEE 802.3 100Base-TX/10Base-T Ethernet, Complies with the LXI 1.4 Core 2011 IPv4, RJ-45 connector or equivalent
Sequence Features	The 16 user defined waveforms can be programmed with total of 1024 steps
	Step Time: 100 µs to 1000 h (resolution of 100 µs)
Setup Memory	10 memory entries
Soft Start and Soft Stop	Can be turned on and off. Soft start and soft stop time: 0.1 ms to 1000 s.

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		Operating Temperature	0º C to +40º C			
		Cooling Method	Forced air cooling using variable-speed, heat sensitive fan			
		The power supply should come with a power backup of 2KVa (pure sign wave with dry batteries).				
		Warranty: 18 Months				

Financial Portion (Price and Brand/Model to be mention only in Financial Proposal in a separate sealed envelope)

No change in the BoQs (Specs & Qty.) of CIIT, as detailed below, is allowed. Any additional information may be mentioned in the blank columns (i.e. model / brand or Price). Any modification in CIIT's BoQ may lead to rejection of bid (fully or partially).						**Rates to be quoted in C&F Lahore with all freight & packing charges at Lahore Airport**		
Sr. #	**Equipment Name**	**BoQs/Specification**		**Qty**		**Quoted Model / Brand**	**Unit Price (C&F Lahore Airport) with mentioning of Quoted Currency**	**Total Price (C&F Lahore Airport) with mentioning of Quoted Currency**
1	**Bipolar Programmable Power Supply**	It is to be a Power Supply with Bipolar mode and programming function to set a range of current/voltage wave forms. It is to be able support four-quadrant operation. It is to be operative at CV (constant voltage), and CC (constant current) mode.		**01**	**No.**			
		Operation Modes: It is to be operative at DC mode (DC and fine signal source) and AC mode (Ac signal Source)						
		DC Modes Features	**Voltage (CV) Range:** 0.0 V to ± 80 V, (Fine Mode 0.0 to ± 4V) **Resolution:** (DC Mode 0.002 V) (Fine mode 0.0002V) **Accuracy:** ± (0.05% of setting +0.05 % of rtg)					
			Effective Current (CC) **Range:** 0.0 A to ± 5A **Resolution:** (DC mode					

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	0.001A) Fine mode 0.0001 A) **Accuracy:** ±0.3 % of rtg
AC Mode Features	**Effective Voltage (CV)** **Range: 0**.0V to ± 80V **Resolution:** 0.1 V
	Effective Current (CC): 0.0 to 5A **Resolution:** 0.01A
	Accuracy: ± 0.5% of rtg
	AC Frequency Range: 0.01-100 kHz **Resolution:** 0.01 Hz
	Sweep: Linear and Logarithmic **Sweep Time:** 100µs to 1000 s (resolution of 100µs)
Wave Functions	Setting of Sine Wave, Square wave, triangle waves and 16 user-defined arbitrary waveforms. **Start Phase range:** 0º to 359º **Square wave duty cycle:** 0.1% to 99.9 % (f < 100 Hz), 1% to 99% (100 Hz ≤f < 1 kHz), 10% to 90% (1 kHz ≤f < 10 kHz), and fixed to 50% (10 kHz < f)
Protection Features	It is to be with over voltage, over current, over heat protection. The power limit (sink limit) is to be around 200W.
Interface Features	**Software protocol:** IEEE Std 488.2-1992 **Command Language:** Complies with SCPI Specification 1999.0 or equivalent
	RS232C: Complies with EIA232D specifications or equivalent
	GPIB: Complies with IEEE Std 488.1-1987 or equivalent
	USB: Complies with the USB 2.0 Specifications.

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			Data Rate: 12 Mbps (full speed)				
			LAN (factory option): IEEE 802.3 100Base-TX/10Base-T Ethernet, Complies with the LXI 1.4 Core 2011 IPv4, RJ-45 connector or equivalent				
		Sequence Features	The 16 user defined waveforms can be programmed with total of 1024 steps				
			Step Time: 100 µs to 1000 h (resolution of 100 µs)				
		Setup Memory	10 memory entries				
		Soft Start and Soft Stop	Can be turned on and off. Soft start and soft stop time: 0.1 ms to 1000 s.				
		Operating Temperature	0º C to +40º C				
		Cooling Method	Forced air cooling using variable-speed, heat sensitive fan				
		The power supply should come with a power backup of 2KVa (pure sign wave with dry batteries).					
		Warranty: 18 Months					

Note:

1. **Please quote the rates on our BoQs and clearly mention the quoted model / brands, otherwise your bid / items may be rejected.**
2. **Purchase / work order (s) will be awarded on Item Wise Basis as mentioned in BoQs.**
3. **In Addition to filling of the attached BoQs, supporting literature of the quoted model must be attached for verification & technical evaluation of the required specification by the technical committee. In case of any clash is found between the quoted model and the literature model. So the item/bid may be rejected.**
4. **Kindly attach the Tender fee with Technical Bid and Bid money / CDR with Financial Bid.**

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5. **Please submit the technical and financial bid (s) on our prescribed BoQs and clearly mention the quoted model / brands, otherwise your bid (s) may be rejected and also attach the terms and conditions (signed, stamped) with both bids.**

6. **Multiple rates of an item may also lead to the rejection of bid / item.**

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