



Dow University of Health Sciences

Directorate of Procurement

DUHS/DP/2024/263-CORR-1

Dated: 06th March, 2024

CORRIGENDUM

Reference to the Notice Inviting Tender (N.I.T) No: DUHS/DP/2024/263 Dated 10 February 2024 for the Procurement of 10 & 20 KVA UPS published in The Daily Dawn, The Daily Jang and The Daily Kawish on 20th February 2024 and hoisted on Dow University of Health Sciences (DUHS) and Sindh Public Procurement Regulatory Authority (SPPRA) website at PPMS Sr. No: T00582-23-0014. Dated: 20-02-2024

1. The Modifications / Corrections have been carried out in the Technical Specifications (Section-V) of the above referred tender, which are available on DUHS and SPPRA websites.
2. The tender purchasing, bids delivery and bids opening dates have been extended as per following schedule.

- | | |
|-----------------------------------|-------------------------------|
| a. Last Date for Tender Purchase: | 27 March 2024 |
| b. Bids Delivery Date & Time: | 28 March 2024 upto 11:00 a.m. |
| c. Bids Opening Date & Time: | 28 March 2024 at 11:30 a.m. |

All the interested bidders are requested to furnish their bids as per the above corrections / modifications.

Note: All other terms and conditions of the tender shall remain unchanged.

Director Procurement

Dow University of Health Sciences (Ojha Campus)
Procurement Directorate at Library Block,
SUPARCO Road, off Main University Road,
Gulzar-e-Hijari, Scheme No. 33, Karachi
Phone no: +92-21-99261497
Email: director.procurement@duhs.edu.pk

G: MODIFIED / CORRECTED TECHNICAL SPECIFICATIONS

DATA CENTRE UPS (OJHA & DMC CAMPUSES OF DUHS)

Item No. 01	20 kVA Online UPS – Ojha Campus	Qty: 02 Nos.
--------------------	--	---------------------

Sr #	Name of Goods, Technical Description, Specification and Standards
1	Output power capacity: Three Phase In / Three Phase Out 20kVA/20kW with Online Double Conversion Technology
2	Short Circuit Capability 3 x 1 N
3	System Efficiency must be more than 95%
4	Transfer Time (power failure): No transfer time, on-line operation
5	Built in real time remote monitoring feature
6	SNMP/Web Card & connection cables RS232, USB
7	Rack / Cabinet Mounted battery bank(s) to support 30 minutes backup time on full load
8	Parallel Kit Including cabling
	INPUT :
9	Rated Voltage 380 / 400 / 415 Vac
10	Voltage Range for loads <100% (-25%,20%) , <80% (-32.5%, +20%) , <60% (-35%, +20%)
11	Input Frequency 50/60 Hz
12	Harmonic Distortion THDi < 3% for Linear load, THDi < 5% for non-linear load
13	Input Power Factor not less than 0.99
	BYPASS :
14	Rated Voltage 380 / 400 / 415 Vac
15	Change Over tolerance 30... 10% (Voltage) (According to VFI-SS-111)
	OUTPUT
16	Power (KW) 20
17	Voltage 380 / 400 / 415 Vac
18	Frequency Tracking the bypass input (Online Mode) ; 50/60 Hz (Battery Mode)
19	Waveform Sine wave (THDv < 2 % for linear load: THDv < 3 % for non-Linear load)
20	Power Factor: 1
21	Efficiency not less than 95%
22	Overload Capacity Inverter <120% continuous; >125% for 10 min; > 150% for 1 min Bypass 135% for long term ; <1000% for 100ms
	BYPASS
23	Efficiency should be more than 95%
24	Automatic internal bypass
25	Should have a facility Parallel redundant operation more than 20 units
26	Rack / Cabinet Mounted brackets
27	Sealed, Non-spillage, Maintenance-free lead-acid battery
28	3 years principal warranty and on site support. (Including batteries)

Sr #	Name of Goods, Technical Description, Specification and Standards
29	Supply & Installation of UPS DB, MCCB:
29.1	• 1 x 150/200Amp TP (Clipsal/Hager/equivalent brand)
29.2	• 4 x 60Amp TP (Clipsal/Hager/equivalent brand)
29.3	• 16 x 32Amp DP (Clipsal/Hager/Equivalent/ Brand)
30	Supply & Installation of suitable Flexible 40 meters 4Core 10mm Electric power cable (Pakistan Cable/Equivalent)
31	Delivery: Ex-Stock (15 Days or earlier)
32	Country of Origin of Goods: USA / EU / JAPAN (Other countries of origin will be accepted if at least 20 units of UPS meeting the above specifications were installed by the bidder in Pakistan during the last three years. A list of installations must be provided with the contact details of the end-user).

Item No. 02	10 kVA Online UPS – DMC Campus	Qty: 02 Nos.
--------------------	---------------------------------------	---------------------

Sr #	Name of Goods, Technical Description, Specification and Standards
1	Output power capacity: Three Phase In / Three Phase Out 10kVA/10kW with Online Double Conversion Technology
2	Short Circuit Capability 3 x 1 N
3	System Efficiency must be more than 95%
4	Transfer Time (power failure): No transfer time, on-line operation
5	Built in real time remote monitoring feature
6	SNMP/Web Card & connection cables RS232, USB
7	Rack / Cabinet Mounted battery bank(s) to support 30 minutes backup time on full load
	INPUT :
8	Rated Voltage 380 / 400 / 415 Vac
9	Voltage Range for loads <100% (-25%,20%) , <80% (-32.5%, +20%) , <60% (-35%, +20%)
10	Input Frequency 50/60 Hz
11	Harmonic Distortion THDi < 3% for Linear load, THDi < 5% for non-linear load
12	Input Power Factor not less than 0.99
	BYPASS :
13	Rated Voltage 380 / 400 / 415 Vac
14	Change Over tolerance 30... 10% (Voltage) (According to VFI-SS-111)
	OUTPUT
15	Power (KW) 10
16	Voltage 380 / 400 / 415 Vac
17	Frequency Tracking the bypass input (Online Mode) ; 50/60 Hz (Battery Mode)
18	Waveform Sine wave (THDv < 2 % for linear load: THDv < 3 % for non-Linear load)
19	Power Factor: 1
20	Efficiency not less than 95%
21	Overload Capacity Inverter <120% continuous; >125% for 10 min; > 150% for 1 min Bypass 135% for long term ; <1000% for 100ms

Sr #	Name of Goods, Technical Description, Specification and Standards
	BYPASS
22	Efficiency should be more than 95%
23	Automatic internal bypass
24	Should have a facility Parallel redundant operation more than 20 units
25	Rack / Cabinet Mounted brackets
26	Sealed, Non-spillage, Maintenance-free lead-acid battery
27	3 years principal warranty and on site support. (Including batteries)
28	Delivery: Ex-Stock (15-20-Days)
29	Country of Origin of Goods: USA / EU / JAPAN (Other countries of origin will be accepted if at least 20 units of UPS meeting the above specifications were installed by the bidder in Pakistan during the last three years. A list of installations must be provided with the contact details of the end-user).

**MANDATORY TECHNICAL REQUIREMENTS
(NONCOMPLIANCE SHALL LEAD TO REJECTION OF BIDS)**

S#	Services / Requirement / Standards
1.	Must Quote 3 Years of Hardware Warranty Service, including technical support and firmware upgrade (if any).
2.	DUHS at any stage, may decide to remove any item or modify a quantity of any item in above mentioned BoQ or even Cancel the complete tender. Therefore, must quote prices for each and every COMPONENT individually.
3.	Onsite Configuration & Installation, Operation and maintenance of all above-mentioned systems/solutions will be the responsibility of the supplier for 3 years, without any additional cost along with all associated transport and labour/ service charges.
4.	DUHS IT team will be made part of deployment and integration of the software / hardware.
5.	The end user licenses, end user warranties and end user contracting support services will be in the name of Customer i.e. Dow University of Health Sciences, for all the equipment and Software loaded on the equipment delivered during the course of the project.
6.	Selected Bidder will be responsible for the supply, Installation, configuration integration, testing and commissioning of supplied equipment and components at DUHS designated sites as per requirement. At the time of installation and commissioning, selected Bidder must provide comprehensive documentation of Configuration and Manuals etc.
7.	Bidder must quote complete solution, require commissioning the services completely & add/propose and quote separately any item which they deem necessary for proper functioning of the system.
8.	The successful bidder will be responsible for responding as specified below to calls, whether normal or urgent, for maintenance/ support/ replacement etc. of items that are part of this Tender.
9.	On-site support with 2 hours initial response time and 4 hours turnaround time.
10.	The successful bidder shall be responsible for handling level 2 and 3 technical support issues.
11.	The successful bidder must provide backup in case of delay in delivery or maintenance of the relevant model, as specified in BoQ.