

Technical Specifications Group-A	
Name of Goods, Technical Description, Specifications and Standards	
2% Bid Security Amount in PRs. 800,000/-	
UNINTERRUPTIBLE POWER SUPPLY (UPS) 120 KVA	Qty: 01
CAPACITY	120 KVA
EU Product design preferred for UPS systems & Batteries	
UPS Must be modular	
INPUT	
Nominal Voltage	380, 400, 415 (Selectable)
Acceptable Voltage Range	342-477
Frequency	40-70
I/P, O/P Power Factor	>0.99
INVERTER	
Nominal Voltage	380, 400, 415
Precision	+/-1%
Frequency	50/60 Hz
Max. Synchronization Speed	N/A
Waveform	Pure Sine Wave
Total Harmonic Distortion (THDv)	< 2% at 100% Linear Load < 5% at 100% Non-Linear Load
Phase Displacement	120°
Dynamic Recovery Time	20 milliseconds
Admissible Overload	110% for 60 minutes 125% for 10 minutes 150% for 1 minute
Admissible Crest Factor	3:1
Admissible Power Factor	1
Imbalance Output Voltage @ 100% Unbalanced Load	+/- 5%
Current Limit	412 Amps
STATIC BYPASS	
Voltage	380 400 415 VAC
Frequency	50 or 60 Hz
Transfer Time	0 ms
Admissible Overload	110% for 60 minutes 130% for 10 minutes 130-150% for 1 minute
Transfer to Bypass	0 ms
Retransfer	0 ms
MAINTENANCE BYPASS	
Type	Manual
Voltage	400 V
Frequency	50/60 Hz (as per Input)
Overall Efficiency	94.5 @ 100% Load
BATTERY & CHARGER	
Battery Type	Valve Regulated Lead Acid Battery (Maintenance Free)
Nominal Battery Voltage	± 192 to ± 300

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Charging Method	Float
Charging Current	1-22.5% of UPS Rating
Charging Voltage	± 215.5 to ± 337.5 (Nominal Float Volt)
BATTERY	
Nominal battery Voltage	12 V
Design Life	10 Years or more
Warranty: A comprehensive 3-year warranty is required, covering service, spare parts, and labor from the installation date, with a 98% uptime guarantee. After the warranty expires, an annual maintenance contract with a 5% or less value should be provided until the 10th year, ensuring 95% uptime. Warranty Letter / Certificate issued by the OEM must be attached.	
Installation & Services: Onsite Configuration & Installation with Operation and maintenance services of the UPS will be the responsibility of the supplier for 3 years, without any additional cost.	
Country of Origin – UPS: The manufacturer shall originate from the USA, UK, European Union (EU), or Japan. Other products shall also be considered eligible, provided that at least fifteen (20) functional units of the offered or better equipment of quoted brand has been successfully installed and are operational in Pakistan. Documentary evidence in support thereof shall be submitted with the bid, and the Procuring Agency reserves the right to verify the same.	
Technical Support: The bidder must have atleast two (2) OEM-trained Graduate Engineers (Biomedical, Electronics, Mechatronics or equivalent) duly registered with Pakistan Engineering Council. Details of Technical Team and Workshop with Educational & Training Certificates to be attached as per the Form-A.	
Service Centre/Workshop: The service centre / workshop of the original equipment manufacturer (OEM) must be present in Pakistan, preferably in Karachi city.	
Past Performance / Experience: The bidder must have supplied a minimum of five (05) units, three phase UPS of the quoted model, or a model with superior specifications from the same brand to any public or private organization. Documentary evidence in support thereof shall be submitted with the bid, and the Procuring Agency reserves the right to verify the same.	

Technical Specifications

Allied Goods and Services

Sr.#	Description	Qty	Unit
1	Supply, Installation and Commissioning of 120 KVA three phase input and three phase output pure sine wave uninterruptable power supply (UPS) for medical equipment purpose.	1	Nos.
2	Supply and Installation/placement, and connection of external batteries for UPS backup up to 15 minutes at least at full load 120KW, maintenance free spill proof, dry deep cycle type, battery type: AGM VRLA 12V, 100AH, long life. Contractor shall be responsible for providing the detailed calculation of batteries backup as per specification of UPS and batteries.	1	Job
3	Supply and installation of battery breaker box, type tested, with DC breaker 400-600A, 800VDC, Icu@100KA, Shunt trip, and other necessary protections and as per rating of UPS and battery bank, complete kit for battery and UPS protection. Complete in all respect.	1	Nos.
4	Supply and installation of heavy-duty battery racks for placement of batteries as mentioned in made of MS girders 50x50mm and 02 layers of powder coat paint for environmental protection.	1	Nos.
5	Supply, laying and termination of single core 120mm ² flexible DC cable for connection (series & parallel) of all batteries using long neck copper lugs complete in all respect.	90	Meter
6	Supply, laying and termination of 4Cx150mm ² copper cable stranded, 600/1000V, PVC/PVC for UPS incoming and outgoing using long neck copper lugs complete in all respect.	70	Meter
7	Supply, laying and termination of 4Cx50mm ² copper cable stranded, 600/1000V, PVC/PVC for outgoings using long neck copper lugs for end termination and straight joint where required. complete in all respect.	150	Meter
8	Supply Laying and termination of 4c- 6 Sq.mm stranded 450/750 V Cu/PVC/PVC cable in 50mm PVC conduit class E/PVC duct where required with lugs and other accessories required complete in all aspects or as directed by Engineer In-charge.	500	Meter
9	Supply Laying and termination of 1C - 70 Sq.mm 450/750 V Cu/PVC in 20mm PVC conduit class E with lugs and other accessories required (ETP to UPS) must be complete in all aspects	250	Meter
10	Supply Laying and termination of 1C - 6 Sq.mm 450/750 V Cu/PVC in 20mm PVC conduit class E with lugs and other accessories required (for connection of DB's) must be complete in all aspects	300	Meter
11	Supply & Installation of bare copper conductor 2x70 sq.mm for connecting the rods and earth test points.	600	Meter
12	Supply, Installation and Commissioning of Distribution Board (DB:01) wall mounted, locally fabricated in 14-gauge, Color Code: RAL7035, MS Powder Coated, Phase indication lights, Tin Coated Copper Busbar for 3 Phases with color coded heat shrinkable sleeves, Neutral & Earth with Polycarbonate cover sheet, CT's, Energy meter with all related accessories IP Rating 54 With dust proof enclosure. Changeover Switch 400A with extended handle, 4P. Qty. 01 MCCB Breaker 400A, 4P, 36KA, Adj Qty:01, MCCB Breaker 125A, 3P, 25KA Qty: 02 MCCB Breaker 60A, 3P, 25KA Qty: 02 ac SPD 4P, 50KA Qty.: 01, Energy Analyzer: Make: Lovato, CT's: Make: Ficco/ Camsco or equivalent. Breaker's Make: ABB/Schneider or equivalent Changeover Make: socomec or equivalent Cables: Pakistan Cables / Fast cables or equivalent	1	Nos.
13	Supply, Installation, Testing & Commissioning of Distribution Board (DB:02) wall mounted, locally fabricated in 14 gauge, Color Code: RAL7035, MS Powder Coated, Phase indication lights, Tin Coated Copper Busbar for 3 Phases with color coded heat shrinkable sleeves, Neutral & Earth with Polycarbonate cover sheet, CT's, Energy meter with all related accessories IP Rating 54 With dust proof enclosure.	1	Nos.

Sr.#	Description	Qty	Unit
	MCCB Breaker 125A, 3P, 25KA, 05, Qty:01, MCB Breaker 63A, 3P Qty: MCB Breaker 32A, 2P Qty: 03, MCB Breaker 20A, 2P Qty: 12, Energy Analyzer: Make: Lovato, CT's: Make: Ficco/ Camsco Breaker's Make: ABB/Schneider or equivalent		
14	Providing making testing and commissioning of grounding pits electrode type having bore depth min. 100 ft 6 inch bore to achieved less than 1 ohm with complete accessories mentioned below. Task must complete in all aspects and directed by Engineer In-charge. - Copper Rod 25mm diameter, length: 10 Ft (Local) 04 Nos. with complete accessories (copper U clamps, bolts etc.) Note: Copper purity shall be 99.99% - Pouring of earthing compound furseCem as per standard in all bores from bottom to top of bore 06" uPVC pipe schedule 40 casing for hold the walls of bores, casing shall be inserted till bottom of the bore - Inspection chamber 1'x1'x1' making of blocks and cover with heavy duty MS cover - ETP box with 250mm x 25mm x 5mm copper busbar for four grounding pits having powder coated MS sheet. - Test results shall be provided to client for each grounding pits. - All debris shall be removed from working site.	4	Job
15	Supply and Installation of MS perforated 300x100x3000mm hot dip galvanized cable Tray 14 gauge with cover, joint plates, bolts, fixing supports. Complete in all aspects.	50	Meter
16	Supply and Installation of 3x18 module transparent enclosure IP65 with 4P 63A MCB x 01 Nos, 2P 06A x 25 Nos. Complete in all respect.	1	Nos
17	Providing, Installation, Connection, Testing & Commissioning of Circuit Wiring from DB to Switch board including wiring between switch on the same circuit with 2x2.5 sq.mm + 1x1.5 sq.mm single core PVC insulated wires, laid in PVC conduit of suitable size/pvc duct run on surface wall/column etc., complete with all conduit accessories as per specification & site requirements. complete in all respect.	10	Nos
18	Providing, Installation, Connection, Testing & Commissioning of Circuit Wiring from point to point including wiring with 2x2.5 sq.mm + 1x1.5 sq.mm single core PVC insulated wires in green PVC conduit of suitable size/pvc duct run on surface wall/column etc., complete with all conduit accessories as per specification & site requirements. complete in all respect.	35	Nos
19	Providing and installation of 2 pin 13A schuko socket. Make: Schneider/3M	40	Nos

DAWN

E-PAPER | SEPTEMBER 21, 2026



DOW UNIVERSITY OF HEALTH SCIENCES

Dated: 19th September, 2026

CORRIGENDUM-II

Reference to the Notice Inviting Tender (N.I.T) No. DUHS/DP/2026/353/355 Dated 19 August 2026 for the Procurement of Uninterruptible Power Supply (UPS) 120 KVA for SIDH&RC at DUHS, Karachi, (Ref. No: DUHS/DP/2026/353). Published in The Daily Dawn, The Daily Jang and The Daily Kawish and hoisted on Dow University of Health Sciences (DUHS) and Sindh Public Procurement Regulatory Authority (SPPRA) website at EPADS Sr. No: EPADS-S-26080824473. Dated: 31-08-2026.

1. Further 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 submission, delivery, and bid opening dates and times of Tender (Ref. No. DUHS/DP/2026/353) have been extended as per the following schedule.

a. Bids Closing Date & Time: 08 October 2026 upto 11:00 a.m.

b. Bids Opening Date & Time: 08 October 2026 upto 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

**Procurement Directorate, Central Warehouse,
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Campus), SUPARCO Road, Off Main University
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پیر 8 ستمبر 1448ھ 21 ستمبر 2026ء

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MONDAY SEPTEMBER 21, 2026



DOW UNIVERSITY OF HEALTH SCIENCES

تاریخ 19 ستمبر 2026

تصحيح - II

بھوانہ ملٹی ٹینڈر نوٹس این آئی ٹی نمبر DUHS/DP/2026/353/355 تاریخ 19 اگست 2026 برائے ایس آئی ڈی ایچ اینڈ آر سی ڈی پراجیکٹ ایس کراچی کے مقام پر 120 کے وی اے یو پی ایس کی فراہمی (ریفرنس نمبر DUHS/DP/2026/353) جو ڈی جی ڈان، رومن نامہ جنگ اور روز نامہ کاوش میں شائع ہوا اور ڈی او جی نیورٹی آف ہیلتھ سائنسز (ڈی پراجیکٹ ایس) سندھ پبلک پروکیورمنٹ ریگولٹری اتھارٹی (ایس پی پی آر اے) کے EPAD سیریل نمبر EPADS-S-26080824473 پر پوسٹ کیا گیا تاریخ 31-8-2026۔

1۔ مندرجہ بالا ٹینڈر کے ٹیکنیکل اسکی گائیڈ (سکشن V) میں مزید ترامیم / تصحیحات کی گئی ہیں جو ڈی پراجیکٹ ایس اور ایس پی پی آر اے ویب سائٹس پر دستیاب ہیں۔
2۔ یو پی (ریفرنس نمبر: DUHS/DP/2026/353) کو جمع کروانے، پہنچانے اور کھلنے کی تاریخوں اور اوقات میں مندرجہ ذیل شیڈول کے مطابق توسیع کی گئی ہے:

بولی جمع کروانے کی تاریخ اور وقت: 8 اکتوبر 2026 صبح 11:00 بجے

بولی کھلنے کی تاریخ اور وقت: 8 اکتوبر 2026 صبح 11:30 بجے

تمام خواہشمند بولی دہندگان سے درخواست ہے کہ وہ اپنی بولیاں مندرجہ بالا تبدیلیوں / تصحیحات کے مطابق جمع کروادیں۔

نوٹ: ٹینڈر کی دیگر تمام شرائط و ضوابط میں کوئی تبدیلی نہیں کی جائے گی۔

ڈائریکٹر پروکیورمنٹ

پروکیورمنٹ ڈائریکٹوریٹ، سینٹرل ورک ہاؤس،

ڈی او جی نیورٹی آف ہیلتھ سائنسز (او جی اے سی)

سپارک روڈ، متصل مین یو نیورٹی روڈ، بھگزار بھری، سیکم 33، کراچی۔

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Monday, 21 September, 2026

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DOW UNIVERSITY OF HEALTH SCIENCES

تاريخ 19 سيپٽمبر 2026

تصحيح II

بجوالو ٽينڊر گھراڻن لاءِ نوٽيس اين آئي ٽي نمبر DUHS/DP/2026/353/355 تاريخ 19 آگسٽ 2026 براءِ "ايس آئي ڊي ايڇ اينڊ آر سي، ڊي پو ايڇ ايس ڪراچي جي هنڌ تي 120 ڪي وي ائي پو پي ايس جي فراهمي (ريفرنس نمبر: DUHS/DP/2026/353) جيڪو روزاني ڊان، روزاني جنگ ۽ روزاني ڪاوش ۾ شايع ٿيو ۽ ڊاٽو يونيورسٽي آف هيلٿ سائنسز (ڊي پو ايڇ ايس) سنڊ هيلڪ پروڪيورمينٽ ريگيوليٽري اٿارٽي (ايس پي پي آر آئي) جي EPAD سپريل نمبر EPADS-S-26080824473 تي پوسٽ ڪيو ويو تاريخ 31-08-2026.

1. مٿي ڄاڻايل ٽينڊر جي ٽيڪنيڪل اسپيسيفڪيشنز (سيڪشن-V) ۾ وڌيڪ ترميمون/تصحيحون ڪيون ويون آهن جيڪي ڊي پو ايڇ ايس ۽ ايس پي پي آر آئي ويب سائٽس تي دستياب آهن.

2. واک (ريفرنس نمبر DUHS/DP/2026/353) تي جمع ڪرائڻ، پهچائڻ ۽ ڪولڻ جون تاريخون ۽ وقت ۾ هيٺ ڄاڻايل شيڊيول مطابق توسيع ڪئي وئي آهي:

واڪ جمع ڪرائڻ جي تاريخ ۽ وقت: 08 آڪٽوبر 2026

صبح 11:00 وڳي

واڪ ڪولڻ جي تاريخ ۽ وقت: 08 آڪٽوبر 2026

صبح 11:30 وڳي

سمورن خواهشمند واک ڏيندڙن کي درخواست آهي ته اهي پنهنجا واک مٿي ڄاڻايل تبديلين/تصحيحن جي مطابق جمع ڪرائين. نوٽ: ٽينڊر جي ٻين شرطن ۽ ضابطن ۾ ڪابه تبديلي نه ڪئي وئي آهي.

ڊائريڪٽر پروڪيورمينٽ

پروڪيورمينٽ ڊائريڪٽوريٽ، سينٽرل ويئر هائوس

ڊاٽو يونيورسٽي آف هيلٿ سائنسز (اوجها ڪئمپس)

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