



SHAHEED MOHTARMA BENAZIR BHUTTO  
INSTITUTE OF TRAUMA, KARACHI

No. PROC/SMBBIT/2022-23/ 508  
Dated: March 10, 2023.

LETTER OF ACCEPTANCE

M/s. HOSPITAL SOLUTIONS,  
H. No. 174/E, PECHS, BLOCK-2,  
Karachi, Pakistan

Subject: **LETTER OF ACCEPTANCE FOR PROCUREMENT OF GENERAL ITEMS & MACHINERY PARTS & CONSUMABLES**  
**NIT NO: PROC/SMBBIT/2022-23/409 (Dated:06-02-2023),**  
**Ref no: PROC/SMBBIT/P&M-04/2022-23**

- A. Notice Inviting Tender issued in respect of "PROCUREMENT OF GENERAL ITEMS & MACHINERY PARTS & CONSUMABLES" to be supplied during the Financial Year 2022-23.
- B. The said Bid (Single Stage – One Envelope Procedure Basis) submitted on 02nd-March-2023, by your firm.
- C. Meeting of Procurement Committee of SMBB Institute of Trauma, Karachi was held on 02nd-March-2023, to open tender **PROCUREMENT OF GENERAL ITEMS & MACHINERY PARTS & CONSUMABLES** as against each item(s).
- D. Procurement Committee of SMBB Institute of Trauma has evaluated the bid submitted by participant in detail and is pleased to inform you that you have been selected as the "Preferred Bidder" for Supply of below mentioned items. The Procuring Agency now wishes to offer you supply of these item(s) on terms & conditions as per bid documents of said NIT.

S.#	Item #	Items Description	Specification / Part Ref. #	Req. Qty.	UOM	Brand	WARRANTY	Unit Price	Total Price
		<b>SECTION O: OTHER MISCELLANEOUS ITEMS</b>							
1	11	UPS 2 KVA Online Pure Sinwave	<p><b>Input:</b></p> <ul style="list-style-type: none"><li>• Voltage Range: 220VAC +5% Single Phase</li><li>• Input frequency range 50Hz-60Hz (Selectable)</li><li>• Harmonic Distortion &lt;5% or better</li></ul> <p><b>Output:</b></p> <ul style="list-style-type: none"><li>• Voltage Range: 220VAC +5% Single Phase</li><li>• Efficiency 90% or better</li><li>• Economy Mode Option</li><li>• Overload Operation.</li><li>• Harmonic Distortion: &lt;4% (linear load), &lt; 8% (non-linear load) or better</li></ul> <p><b>Battery:</b></p> <ul style="list-style-type: none"><li>• 12V Sealed lead acid maintenance free batteries</li><li>• Variable Charger Current</li><li>• Transfer Time to battery 0ms</li><li>• Transfer Time to bypass 0ms</li><li>• 8minutes to 10 minutes' backup at full load</li></ul> <p><b>General:</b></p> <ul style="list-style-type: none"><li>• True online double conversion IGBT technology</li><li>• Completely digitally controlled</li><li>• Parallel operation/redundancy option</li><li>• ISO, EN Certified</li><li>• Communication and Monitoring Options</li><li>• Inbuilt Isolation Transformer</li><li>• Emergency Power Off Switch</li><li>• Auto Restart</li><li>• Operating Temperature: 15°C - 30°C</li><li>• Storage Temperature: 15°C - 50°C</li></ul> <p><b>Warranty:</b> <b>2 years UPS and battery</b></p> <p>Complete Job: Supply, Installation, Testing, Commissioning and Maintenance (during maintenance period)</p>	6	Pcs.	EFFEKTA (Germany)	2 Years (UPS & BATTERY)	353,000.00	2,118,000.00



S.#	Item #	Items Description	Specification / Part Ref. #	Req. Qty.	UOM	Brand	WARRANTY	Unit Price	Total Price
2	12	On Line Double Conversion 15kVA UPS with 3 Phase In and 3 Phase Out.	<p>The System should be configured to parallel redundancy.</p> <p>System should be with modular design and having self-diagnostic capability for power module.</p> <p>Should have following features:</p> <ul style="list-style-type: none"> <li>• UPS Classification VFI-SS111 (IEC 62040-3)</li> <li>• On-Line Double Conversion</li> <li>• PFC Rectifier with IGBT Technology</li> <li>• Modular Technology</li> <li>• Modules with progressive self-diagnostics</li> <li>• High Efficiency</li> <li>• Sine Wave Output</li> <li>• Digital Signaling Processor</li> <li>• Clearly Arranged LCD Display</li> <li>• RS232 and expandability for various interfaces (SNMP, Relays, RS485/Modbus)</li> <li>• Low Weight</li> </ul> <p>Power 15kVA/12kW</p> <p>Efficiency (AC-AC) - % (ECO-mode) &gt;98</p> <p>Efficiency (AC-AC) - % (online-mode, 100% load) &gt;92</p> <p>Input Voltage nominal 3-Phase 400VAC</p> <p>Voltage Range 300-400-415VAC-20% / +15%</p> <p>Frequency 50Hz ~ 60Hz ± 5Hz</p> <p>Power factor &gt;0.99</p> <p>Output Voltage 380-415VAC selectable</p> <p>Frequency 50Hz or 60Hz ± 0.001Hz (battery mode) ± 2Hz synchronized mains</p> <p>Waveform sinusoidal</p> <p>THD &lt; 2% (linear load), &lt; 5% (nonlinear load), IEC 62040-3</p> <p>Crest factor 3*1</p> <p>Batteries Type Maintenance-free lead-acid batteries</p> <p>Autonomy starting 4 min / depending on the battery mounting</p> <p>Charging current 10A</p> <p>Charging time 7-8 h to 90% of full capacity after complete discharge</p> <p>Switching time AC-DC into the bypass 0ms</p> <p>Panel LCD Alpha-numeric display with backlight</p> <p>LED Diagram with LEDs</p> <p>Acoustic alarm can be switched off Yes</p> <p>Interface RS-232 interface Yes</p> <p>SNMP (option) Yes</p> <p>Potential-free contacts (option) Eight Signals with additional card</p> <p>Environment Temperature 0-40°C (Battery 0 - +25°C)</p> <p>Humidity &lt;95% non-condensing</p> <p>Audible noise level (at 1m distance) &lt; 52dB</p> <p>Safety Safety DIN EN 62040-1</p> <p>EMC DIN EN 62040-2, Class C3</p> <p>Tests CE</p> <p><b>Warranty:</b></p> <p><b>2 years UPS and battery</b></p> <p>Complete Job: Supply, Installation, Testing, Commissioning and Maintenance (during maintenance period).</p>	3	Nos	EFFEKTA (Germany)	2 Years (UPS & BATTERY)	3,643,000.00	10,929,000.00

51



S.#	Item #	Items Description	Specification / Part Ref. #	Req. Qty.	UOM	Brand	WARRANTY	Unit Price	Total Price
3	13	On Line Double Conversion 30kVA UPS with 3 Phase In and 3 Phase Out.	<p>The System should be configured to parallel redundancy.</p> <p>System should be with modular design and having self-diagnostic capability for power module.</p> <p>Should have following features:</p> <ul style="list-style-type: none"> <li>• UPS Classification VFI-SS111 (IEC 62040-3)</li> <li>• On-Line Double Conversion</li> <li>• PFC Rectifier with IGBT Technology</li> <li>• Modular Technology</li> <li>• Modules with progressive self-diagnostics</li> <li>• High Efficiency</li> <li>• Sine Wave Output</li> <li>• Digital Signaling Processor</li> <li>• Clearly Arranged LCD Display</li> <li>• RS232 and expandability for various interfaces (SNMP, Relays, RS485/Modbus)</li> <li>• Low Weight</li> </ul> <p>Power 30kVA/24kW</p> <p>Efficiency (AC-AC) - % (ECO-mode) &gt;98</p> <p>Efficiency (AC-AC) - % (online-mode, 100% load) &gt;92</p> <p>Input Voltage nominal 3-Phase 400VAC</p> <p>Voltage Range 300-400-415VAC-20% / +15%</p> <p>Frequency 50Hz – 60Hz ± 5Hz</p> <p>Power factor &gt;0.99</p> <p>Output Voltage 380-415VAC selectable</p> <p>Frequency 50Hz or 60Hz ± 0.001Hz (battery mode) ± 2Hz synchronized mains</p> <p>Waveform sinusoidal</p> <p>THD &lt; 2% (linear load), &lt; 5% (nonlinear load), IEC 62040-3</p> <p>Crest factor 3*1</p> <p>Batteries Type Maintenance-free lead-acid batteries</p> <p>Autonomy starting 4 min / depending on the battery mounting</p> <p>Charging current 10A</p> <p>Charging time 7-8 h to 90% of full capacity after complete discharge</p> <p>Switching time AC-DC into the bypass 0ms</p> <p>Panel LCD Alpha-numeric display with backlight</p> <p>LED Diagram with LEDs</p> <p>Acoustic alarm can be switched off Yes</p> <p>Interface RS-232 interface Yes</p> <p>SNMP (option) Yes</p> <p>Potential-free contacts (option) Eight Signals with additional card</p> <p><b>Warranty:</b> <b>2 years UPS and battery</b></p> <p>Complete Job: Supply, Installation, Testing, Commissioning and Maintenance (during maintenance period)</p>	3	Nos	EFFEKTA (Germany)	2 Years (UPS & BATTERY)	4,500,000.00	13,500,000.00
<b>Total</b>									<b>26,547,000</b>

**Amount in word: Rupees Twenty-Six Million Five Hundred Forty-Seven Thousand Only.**

- This Letter of Acceptance does not form a contractual or legal relationship under the relevant law of Pakistan between SMBB Institute of Trauma and the addressee of this "Letter of Acceptance".
- Therefore, You are requested to confirm within seven (07) days on your company letterhead from the date of receipt of this Letter of Acceptance, regarding your willingness to accept this offer for Supply to SMBB Institute of Trauma, Karachi.
- If agreed, Form of Contract on Non-Judicial Stamp Paper will be submitted (As per Terms and conditions)
- SECURITY DEPOSIT: @10% Security Deposit (Performance Security) of Rs.2,654,700/-** in the shape of Pay Order / Demand Draft or Bank Guarantee will be submitted by Supplier to Purchaser in favor of Shaheed Mohtarma Benazir Bhutto Institute of Trauma, Karachi (SMBBIT). which will be released Clause # 2 of bidding document. (Terms & Conditions of bidding document).
- Stamp duty @0.35% of ordered amount shall be paid through E-stamp duty ([www.estamps.gos.pk](http://www.estamps.gos.pk)) and the paid receipt and agreement should have to be submitted to the Procurement department (SMBB-IT).
- Documents showing any set of exemption from duty taxes should also attached with the bills.
- Delivery of above mentioned items within the period of One month. If it fails to deliver, 0.03% of the total bill amount per day, up to 10 percent limit after the completion period, depends upon the damages done due to non-supply.

slv EXECUTIVE DIRECTOR / DDO  
SMBB INSTITUTE OF TRAUMA, KARACHI

slv EXECUTIVE DIRECTOR / DDO  
SMBB INSTITUTE OF TRAUMA, KARACHI

Copy to:-

- The Director (A&F) SPPRA with reference to SPPRA PPMS ID T00518-22-0005 & Evaluation Report # BE00518-22-0005-4
- Accounts & Finance Department, SMBB Institute of Trauma.

Received  
Haris Ahmed  
10/3/23





SHAHEED MOHTARMA BENAZIR BHUTTO  
INSTITUTE OF TRAUMA, KARACHI

No. PROC/SMBBIT/2022-23/522  
Dated: 20 - March - 2023.

AWARD OF TENDER (A.O.T)

M/s. HOSPITAL SOLUTIONS,  
H. No. 174/E, PECHS, BLOCK-2,  
Karachi, Pakistan

**Sub: PROCUREMENT OF GENERAL ITEMS & MACHINERY PARTS & CONSUMABLES FOR (CFY 2022-23)**

Reference to our subject tender Dated: 02-03-2023 and letter of Acceptance Ref # PROC/SMBBIT/2022-23/508 Dated: 10-march-2023; The rates quoted by you for the supply of the following items have been approved and accepted by the Competent Authority of SMBB Institute of Trauma. You are therefore requested to please arrange the supply of the same at an early date after receipt of the supply order, to meet the urgent requirement, and send your bill in quadrilateral to the store office to arrange the payment from the Finance & Accounts Department of SMBB-IT.									
S.#	Item #	Items Description	Specification / Part Ref. #	Req. Qty.	UOM	Brand	Warranty	Unit Price	Total Price
		<b>SECTION O: OTHER MISCELLANEOUS ITEMS</b>							
1	11	UPS 2 KVA Online Pure Sinwave	Input: • Voltage Range: 220VAC +5% Single Phase • Input frequency range 50Hz-60Hz (Selectable) • Harmonic Distortion <5% or better Output: • Voltage Range: 220VAC +5% Single Phase • Efficiency 90% or better • Economy Mode Option • Overload Operation. • Harmonic Distortion: <4% (linear load), < 8% (non-linear load) or better Battery: • 12V Sealed lead acid maintenance free batteries • Variable Charger Current • Transfer Time to battery 0ms • Transfer Time to bypass 0ms • 8minutes to 10 minutes' backup at full load General: • True online double conversion IGBT technology • Completely digitally controlled • Parallel operation/redundancy option • ISO, EN Certified • Communication and Monitoring Options • Inbuilt Isolation Transformer • Emergency Power Off Switch • Auto Restart • Operating Temperature: 15°C - 30°C • Storage Temperature: 15°C - 50°C  <b>Warranty:</b> <b>2 years UPS and battery</b>  Complete Job: Supply, Installation, Testing. Commissioning and Maintenance (during maintenance period)	6	Pcs.	EFFEKTA (Germany)	2 Years (UPS & BATTERY)	353,000.00	2,118,000.00



2	12	On Line Double Conversion 15kVA UPS with 3 Phase In and 3 Phase Out.	<p>The System should be configured to parallel redundancy.</p> <p>System should be with modular design and having self-diagnostic capability for power module.</p> <p>Should have following features:</p> <ul style="list-style-type: none"> <li>• UPS Classification VFI-SS111 (IEC 62040-3)</li> <li>• On-Line Double Conversion</li> <li>• PFC Rectifier with IGBT Technology</li> <li>• Modular Technology</li> <li>• Modules with progressive self-diagnostics</li> <li>• High Efficiency</li> <li>• Sine Wave Output</li> <li>• Digital Signaling Processor</li> <li>• Clearly Arranged LCD Display</li> <li>• RS232 and expandability for various interfaces (SNMP, Relays, RS485/Modbus)</li> <li>• Low Weight</li> </ul> <p>Power 15kVA/12kW</p> <p>Efficiency (AC-AC) - % (ECO-mode) &gt;98</p> <p>Efficiency (AC-AC) - % (online-mode, 100% load) &gt;92</p> <p>Input Voltage nominal 3-Phase 400VAC</p> <p>Voltage Range 300-400-415VAC-20% / +15%</p> <p>Frequency 50Hz – 60Hz ± 5Hz</p> <p>Power factor &gt;0.99</p> <p>Output Voltage 380-415VAC selectable</p> <p>Frequency 50Hz or 60Hz ± 0.001Hz (battery mode) ± 2Hz synchronized mains</p> <p>Waveform sinusoidal</p> <p>THD &lt; 2% (linear load), &lt; 5% (nonlinear load), IEC 62040-3</p> <p>Crest factor 3*1</p> <p>Batteries Type Maintenance-free lead-acid batteries</p> <p>Autonomy starting 4 min / depending on the battery mounting</p> <p>Charging current 10A</p> <p>Charging time 7-8 h to 90% of full capacity after complete discharge</p> <p>Switching time AC-DC into the bypass 0ms</p> <p>Panel LCD Alpha-numeric display with backlight</p> <p>LED Diagram with LEDs</p> <p>Acoustic alarm can be switched off Yes</p> <p>Interface RS-232 interface Yes</p> <p>SNMP (option) Yes</p> <p>Potential-free contacts (option) Eight Signals with additional card</p> <p>Environment Temperature 0-40°C (Battery 0 - +25°C)</p> <p>Humidity &lt;95% non-condensing</p> <p>Audible noise level (at 1m distance) &lt; 52dB</p> <p>Safety Safety DIN EN 62040-1</p> <p>EMC DIN EN 62040-2, Class C3</p> <p>Tests CE</p> <p><b>Warranty:</b> <b>2 years UPS and battery</b></p> <p>Complete Job: Supply, Installation, Testing, Commissioning and Maintenance (during maintenance period).</p>	3	Nos	EFFEKTA (Germany)	2 Years (UPS & BATTERY)	3,643,000.00	10,929,000.00
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3	13	On Line Double Conversion 30kVA UPS with 3 Phase In and 3 Phase Out.	<p>The System should be configured to parallel redundancy.</p> <p>System should be with modular design and having self-diagnostic capability for power module.</p> <p>Should have following features:</p> <ul style="list-style-type: none"><li>• UPS Classification VFI-SS111 (IEC 62040-3)</li><li>• On-Line Double Conversion</li><li>• PFC Rectifier with IGBT Technology</li><li>• Modular Technology</li><li>• Modules with progressive self-diagnostics</li><li>• High Efficiency</li><li>• Sine Wave Output</li><li>• Digital Signaling Processor</li><li>• Clearly Arranged LCD Display</li><li>• RS232 and expandability for various interfaces (SNMP, Relays, RS485/Modbus)</li><li>• Low Weight</li></ul> <p>Power 30kVA/24kW</p> <p>Efficiency (AC-AC) - % (ECO-mode) &gt;98</p> <p>Efficiency (AC-AC) - % (online-mode, 100% load) &gt;92</p> <p>Input Voltage nominal 3-Phase 400VAC</p> <p>Voltage Range 300-400-415VAC-20% / +15%</p> <p>Frequency 50Hz – 60Hz ± 5Hz</p> <p>Power factor &gt;0.99</p> <p>Output Voltage 380-415VAC selectable</p> <p>Frequency 50Hz or 60Hz ± 0.001Hz (battery mode) ± 2Hz synchronized mains</p> <p>Waveform sinusoidal</p> <p>THD &lt; 2% (linear load), &lt; 5% (nonlinear load), IEC 62040-3</p> <p>Crest factor 3*1</p> <p>Batteries Type Maintenance-free lead-acid batteries</p> <p>Autonomy starting 4 min / depending on the battery mounting</p> <p>Charging current 10A</p> <p>Charging time 7-8 h to 90% of full capacity after complete discharge</p> <p>Switching time AC-DC into the bypass 0ms</p> <p>Panel LCD Alpha-numeric display with backlight</p> <p>LED Diagram with LEDs</p> <p>Acoustic alarm can be switched off Yes</p> <p>Interface RS-232 interface Yes</p> <p>SNMP (option) Yes</p> <p>Potential-free contacts (option) Eight Signals with additional card</p> <p><b>Warranty:</b> <b>2 years UPS and battery</b></p> <p>Complete Job: Supply, Installation, Testing, Commissioning and Maintenance (during maintenance period)</p>	3	Nos	EFFEKTA (Germany)	2 Years (UPS & BATTERY)	4,500,000.00	13,500,000.00
Total							26,547,000		

**Amount in word: Rupees Twenty-Six Million Five Hundred Forty-Seven Thousand Only.**

2	<b>Date of Delivery:</b> As per Supply Order.
3	<b>Place of Delivery:</b> SMBB Institute of Trauma, Karachi.
4	<b>Dispatch Instruction:</b> Free Delivery to the Consignee .i.e. SMBB Institute of Trauma, Karachi.
5	<b>Name and Address of the Consignee:</b> EXECUTIVE DIRECTOR - SMBB Institute of Trauma, Karachi.



6	<b>PARTICULAR GOVERNING SUPPLY:</b>
6.1	As per policy given in the bid documents.
7	<b>INSPECTION :</b>
7.1	<b>Inspection Authority:</b> Nominated Inspection Committee of SMBB-IT, Concerned Department of Supplied Items.
	<b>PAYMENT : Through office of:</b>
8	The Finance Department SMBB-IT on production of the Delivery Challan, Inspection Note and Invoice, which will make payment from the consignee's Account.
9	<b>PART SUPPLY / PART PAYMENT:</b> Allowed.
9.1	Note:- It should be mentioned on the Delivery Note 1 <sup>st</sup> Supply, 2 <sup>nd</sup> Supply and Final Supply & on Invoice (Bill that this is 1 <sup>st</sup> Bill, 2 <sup>nd</sup> Bill and in the last supply Final Bill) else in delay of payment the firm will be held responsible.
10	<b>SPECIAL INSTRUCTION:</b>
10.1	All the supplies must be completed within the stipulated delivery period. In case of failure, purchaser reserves the right to forfeit the security deposit and purchase the stock from any other sources on risk and expenses of supplier without any notice. The Liquidated damages will be applicable as per Bid document
10.2	The stores if found damaged shall be replaced by supplier free of cost.
10.3	Sub-Standard stores if supplied will not be returned and supplier will be required to supply the stores of the contracted specification and of standard quality in addition to the same without any additional expenses to the Government.
11	<b>SHELF LIFE REQUIRED:</b> No supply will be accepted having expiry date less than 70% of shelf life for the National manufacturer and 70% for imported items <b>(Wherever applicable).</b>
12	The Supplier / Manufacturer should ensure the supply of quality stores.
13	Documents showing any set of exemption from duty taxes should also be attached with the bills.

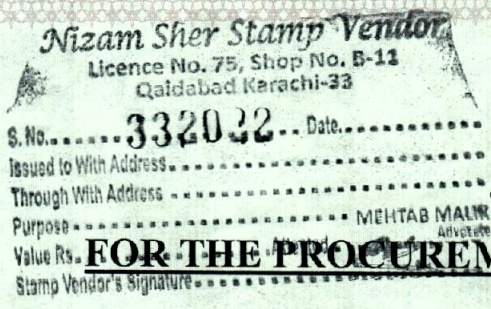
**Copy to:**

- The Director (A&F)SPPRA with reference to SPPRA PPMS ID T00518-22-0005 & Evaluation Report # BE00518-22-0005-4
- Store Incharge, SMBB Institute of Trauma, Karachi
- Accounts & Finance Department, SMBB Institute of Trauma, Karachi

  
 dw EXECUTIVE DIRECTOR / D.D.O  
 SMBB INSTITUTE OF TRAUMA

  
 dc EXECUTIVE DIRECTOR / D.D.O  
 SMBB INSTITUTE OF TRAUMA





# CONTRACT AGREEMENT

**FOR THE PROCUREMENT OF GENERAL ITEMS & MACHINERY PARTS & CONSUMABLES**

LETTER OF ACCEPTANCE NO: PROC/SMBBIT/2022-23/508 DATED: 10 - March 2023

This Contract Agreement (hereinafter called the Agreement) made on 18 day of March - 2023.

**M/s. HOSPITAL SOLUTIONS**

A Supplier, having its office at **H. No. 174/E, PECHS, BLOCK-2, Karachi, Pakistan** (Hereinafter mentioned as Supplier), which expression shall be deemed to mean and include its successors-in-interest and permitted assigns;

**SHAHEED MOHTARMA BENAZIR BHUTTO INSTITUTE OF TRAUMA**

(Hereinafter Called the Purchaser)

WHEREAS the Purchaser is desirous that certain Purchases, "Under mentioned Items" should be supplied by the Supplier and has accepted a bid by the Supplier for the "Procurement of General Items & Machinery Parts & Consumables" remedying of any defect therein.

S.#	Item #	Items Description	Specification / Part Ref. #	Req. Qty.	UOM	Brand	Warranty	Unit Price	Total Price
		SECTION O: OTHER MISCELLANEOUS ITEMS							

Dr. Muhammad Sabir Memon  
Executive Director  
Shaheed Mohtarma Benazir Bhutto  
Institute of Trauma, Karachi





1	11	UPS 2 KVA Online Pure Sinwave	Input: • Voltage Range: 220VAC +5% Single Phase • Input frequency range 50Hz- 60Hz (Selectable) • Harmonic Distortion <5% or better . Output: • Voltage Range: 220VAC +5% Single Phase • Efficiency 90% or better • Economy Mode Option • Overload Operation. • Harmonic Distortion: <4% (linear load), < 8% (non-linear load) or better Battery: • 12V Sealed lead acid maintenance free batteries • Variable Charger Current • Transfer Time to battery 0ms • Transfer Time to bypass 0ms • 8minutes to 10 minutes' backup at full load . General: • True online double conversion IGBT technology • Completely digitally controlled • Parallel operation/redu ndancy option • ISO, EN Certified •	6	Pcs.	EFFE KTA (Germ any)	2 Years (UPS & BATTER Y)	353,000	2,118,000.00
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			<p>Communication and Monitoring Options</p> <ul style="list-style-type: none"> <li>• Inbuilt Isolation Transformer</li> <li>• Emergency Power Off Switch</li> <li>• Auto Restart</li> <li>• Operating Temperature: 15°C - 30°C</li> <li>• Storage Temperature: 15°C - 50°C</li> </ul> <p><b>Warranty:</b> <b>2 years UPS and battery</b></p> <p>Complete Job: Supply, Installation, Testing, Commissioning and Maintenance (during maintenance period)</p>						
2	12	On Line Double Conversion 15kVA UPS with 3 Phase In and 3 Phase Out.	<p>The System should be configured to parallel redundancy. System should be with modular design and having self-diagnostic capability for power module. Should have following features:</p> <ul style="list-style-type: none"> <li>• UPS Classification VFI-SS111 (IEC 62040-3)</li> <li>• On-Line Double Conversion</li> <li>• PFC Rectifier with IGBT Technology</li> <li>• Modular Technology</li> </ul>	3	Nos	EFFE KTA (Germany)	2 Years (UPS & BATTERY)	3,643,000	10,929,000.00





			<p>Modules with progressive self- diagnostics• High Efficiency• Sine Wave Output• Digital Signaling Processor• Clearly Arranged LCD Display• RS232 and expandability for various interfaces (SNMP, Relays, RS485/Modb us)• Low WeightPower 15kVA/12kW Efficiency (AC-AC) - % (ECO-mode) &gt;98Efficiency (AC-AC) - % (online-mode, 100% load) &gt;92 Input Voltage nominal 3- Phase 400VAC Voltage Range 300- 400-415VAC- 20% / +15% Frequency 50Hz – 60Hz ± 5Hz Power factor &gt;0.99Output Voltage 380- 415VAC selectable Frequency 50Hz or 60Hz ± 0.001Hz (battery mode) ± 2Hz synchronized mains Waveform sinusoidal THD &lt; 2% (linear load),</p>				
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< 5%  
 (nonlinear  
 load), IEC  
 62040-3 Crest  
 factor  
 3\*1 Batteries  
 Type  
 Maintenance-  
 free lead-acid  
 batteries  
 Autonomy  
 starting 4 min  
 / depending  
 on the battery  
 mounting  
 Charging  
 current 10A  
 Charging time  
 7-8 h to 90%  
 of full  
 capacity after  
 complete  
 discharge  
 Switching time  
 AC-DC into  
 the bypass  
 0ms  
 Panel  
 LCD Alpha-  
 numeric  
 display with  
 backlight  
 LED Diagram  
 with  
 LEDs  
 Acoustic alarm can  
 be switched  
 off  
 Yes  
 Interface  
 RS-232  
 interface Yes  
 SNMP  
 (option) Yes  
 Potential-free  
 contacts  
 (option)  
 Eight Signals  
 with  
 additional  
 card  
 Environment  
 Temperature  
 0-40°C  
 (Battery 0 -  
 +25°C)  
 Humidity  
 <95% non-  
 condensing  
 Audible noise  
 level (at 1m  
 distance) <  
 52dB  
 Safety  
 Safety DIN  
 EN 62040-1





			EMC DIN EN 62040-2, Class C3 Tests CE Warranty :2 years UPS and battery Complete Job: Supply, Installation, Testing, Commissioning and Maintenance (during maintenance period).						
3	13	On Line Double Conversion 30kVA UPS with 3 Phase In and 3 Phase Out.	The System should be configured to parallel redundancy. System should be with modular design and having self-diagnostic capability for power module. Should have following features: • UPS Classification VFI-SS111 (IEC 62040-3) • On-Line Double Conversion • PFC Rectifier with IGBT Technology • Modular Technology • Modules with progressive self-diagnostics • High Efficiency • Sine Wave	3	Nos	EFFE KTA (Germany)	2 Years (UPS & BATTERY)	4,500,000	13,500,000.00





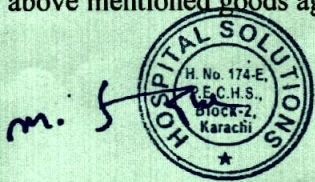
Output•  
 Digital  
 Signaling  
 Processor•  
 Clearly  
 Arranged  
 LCD Display•  
 RS232 and  
 expandability  
 for various  
 interfaces  
 (SNMP,  
 Relays,  
 RS485/Modb  
 us)• Low  
 WeightPower  
 30kVA/24kW  
 Efficiency  
 (AC-AC) - %  
 (ECO-mode)  
 >98Efficiency  
 (AC-AC) - %  
 (online-mode,  
 100% load)  
 >92 Input  
 Voltage  
 nominal 3-  
 Phase  
 400VAC  
 Voltage  
 Range 300-  
 400-415VAC-  
 20% / +15%  
 Frequency  
 50Hz – 60Hz  
 ± 5Hz Power  
 factor  
 >0.99Output  
 Voltage 380-  
 415VAC  
 selectable  
 Frequency  
 50Hz or 60Hz  
 ± 0.001Hz  
 (battery  
 mode) ± 2Hz  
 synchronized  
 mains  
 Waveform  
 sinusoidal  
 THD < 2%  
 (linear load),  
 < 5%  
 (nonlinear  
 load), IEC  
 62040-3 Crest  
 factor  
 3\*1Batteries  
 Type  
 Maintenance-  
 free lead-acid  
 batteries  
 Autonomy





		starting 4 min / depending on the battery mounting Charging current 10A Charging time 7-8 h to 90% of full capacity after complete dischargeSwit ching time AC-DC into the bypass 0msPanel LCD Alpha- numeric display with backlight LED Diagram with LEDsAcousti c alarm can be switched off YesInterface RS-232 interface Yes SNMP (option) Yes Potential-free contacts (option) Eight Signals with additional card <b>Warranty:2 years UPS and battery Compl ete Job: Supply, Installation, Testing, Commissionin g and Maintenance (during maintenance period)</b>						
<b>Total</b>								<b>26,547,000</b>
<b>Amount in word: Rupees Twenty-Six Million Five Hundred Forty-Seven Thousand Only.</b>								

Whereas the purchaser is desirous that certain goods should be provided by supplier and whereas the supplier has agreed to provide and quote the rate which has been accepted by purchaser for supply of above mentioned goods against the sum of Rs. **26,547,000/-** hereinafter called "The Contract Price".





Now this agreement witnesseth as follows:

1. In this agreement words and expression shall have the same meanings as are respectively assigned to them in the Terms & Conditions of Tender Enquiry referred to.
2. The Following documents after incorporating addenda, if any except these parts relating to Instruction to bidders, shall be deemed to form and be read and constructed as part of this Agreement, viz:
  - a. Purchase order(s)/ Letter of Acceptance where applicable.
  - b. The completed Form of Bid along with Schedules to Bid.
  - c. Condition of Contract & Contract Data
  - d. The priced Scheduled of prices
  - e. The specifications
3. In consideration of the payments to be made by the Purchaser to the Supplier as hereinafter mentioned, the Supplier hereby covenants with the Purchaser to supply the goods and remedy defects therein in conformity and in all respects within the provisions of the Contract.
4. The Purchaser hereby covenants to pay the Supplier, in consideration of the execution and completion of the supply as per provisions of the Contract, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.
5. **LIQUIDITY DAMAGES:** Delivery of above mentioned items within the period of 1 months. If it fails to deliver, @0.03 percent of the Contract Price for each day of delay until actual delivery or performance, up to a maximum deduction of 10% of the Contract Price. Once the maximum is reached, the purchaser may consider termination of the contract.
6. **PLACE OF DELIVERY:** SMBB Institute of Trauma, Karachi.
7. **DISPATCH INSTRUCTION:** Free delivery to the Consignee i.e. SMBB Institute of Trauma, Karachi.
8. **PARTICULAR GOVERNING SUPPLY:** As per policy given in the bid documents.
9. **INSPECTION:** Nominated Inspection Committee of SMBBIT, Concerned Department of Supplied Items.
10. **PAYMENT:** The Accounts & Finance Department SMBB-IT on production of the Delivery Challan, Inspection Note and Invoice, which will make payment from the consignee's Account.
11. **SECURITY DEPOSIT:** @10% Security Deposit (Performance Security) of **Rs. 2,654,700/-** in the shape of Pay Order / Demand Draft or Bank Guarantee will be submitted by Supplier to Purchaser in favor of **Shaheed Mohtarma Benazir Bhutto Institute of Trauma, Karachi (SMBBIT)**. which will be released Clause # 2 of bidding document. (Terms & Conditions of bidding document).
12. **PART SUPPLY / PART PAYMENT:** Allowed.
  - 12.1 Note: - It should be mentioned on the Delivery Note 1st Supply, 2nd Supply and Final Supply & on Invoice / Bill that this is 1st Bill, 2nd Bill and in the last supply Final Bill) else in delay of payment the firm will be held responsible.
13. **SPECIAL INSTRUCTION:** The Inspection Authority reserves the right to get any or all stores supplied against this Contract; tested by any respective Testing Laboratory/authority at the purchaser's discretion, before or after the acceptance of stores.
  - 14.1 All the supplies must be completed within the stipulated delivery period in case of failure; purchaser reserves the right to forfeit the security deposit and purchase the stores from any other sources on risk and expenses of supplier without any notice.
  - 14.2 The stores if found damaged shall be replaced by supplier free of cost.
  - 14.3 Sub-Standard items if supplied will not be returned and supplier will be required to supply the stores of the contracted specification and of standard quality in addition to the same without any additional expenses to the Government.
14. The Supplier / Manufacturer should ensure the supply of quality stores.





15. Stamp duty @0.35% of ordered amount shall be paid through E-stamp duty ([www.estamps.gos.pk](http://www.estamps.gos.pk)) and the paid receipt and agreement should have to be submitted to the Procurement department (SMBB-IT), Karachi.

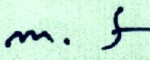

16. **SHELF LIFE REQUIRED:** No supply will be accepted having expiry date less than 70% of shelf life for the National manufacturer and 70% for imported items (**Wherever applicable**).


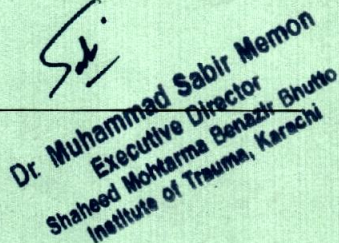
17. Documents showing any set of exemption from duty taxes should also be attached with the bills.

IN WITNESS WHEREOF the parties hereto have caused this Contract Agreement in accordance with their respective hands and seals, the day, month and the year first above written.

Signature of the Supplier

Signature of the Purchaser

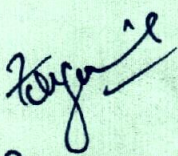

  
(Seal) 


  
(Seal) 

Signed, Sealed and Delivered in the presence of:

Witness:

Witness:

  
  
SHAWZAB WASI  
(Name, Title and Address)

  
(Name, Title and Address)  
