

## CERTIFICATE

In accordance with SPPRA's comments on receiving and redressing complaints received during tender processing, we have certified that no complaints have been received about the procurement process of the below-mentioned tender.

**PPMS ID:** T00518-23-0005

**Tender Name:** PROCUREMENT OF GENERAL ITEMS  
MACHINERY PARTS & PLANT & MACHINERY

**Tender Reference:** PROC/SMBBIT/(OTHERS-02)/2023-24

PROF. SADQA AFTAB  
Department Of Anesthesia & ICU  
SMBB Institute Of Trauma  
New University Of Health Sciences

**PROF. DR. SADQA AFTAB**  
Chairperson - PC

HOD ICU & Anesthesiology Department,  
SMBB Institute of Trauma, Karachi

Dr. M. Yousuf Memon  
Consultant and Head of  
Interventional Radiology  
M.D.S., DMRD, FRCR<sub>2</sub>A, EDIR VIB  
SMBB Institute of Trauma, Karachi

**DR. YOUSUF MEMON**  
Member - PC

HOD Interventional Radiology,  
SMBB Institute of Trauma, Karachi

PROF. DR. BADDARUDDIN SAHITO  
FRCR (Ortho)  
Professor  
Department of  
Orthopaedics  
University of I  
Dr. Ruth K.  
Civil Hospital

**PROF. DR. BADDARUDDIN SAHITO**  
Member - PC

Head of the Department of Orthopaedic Surgery,  
Dow University of Health Sciences &  
Dr. Ruth K.M.Pfau Civil Hospital, Karachi

**MR. MUHAMMAD IBRAHIM MEMON**

Member - PC

Deputy Secretary (PM&I),  
Health Department, Govt. of Sindh

**MR. BILAL IDREES**

Member - PC

Manager  
Supply Chain Management,  
SMBB Institute of Trauma, Karachi

**MANAGER**  
**SUPPLY CHAIN MANAGEMENT**  
SMBB Institute of Trauma, Karachi

**MR. HAMMAD HUSSAIN**

Member - PC

Bio-Medical Engineer,  
SMBB Institute of Trauma, Karachi

**HAMMAD HUSSAIN**  
Biomedical Engineer  
SMBB Institute of Trauma

**MR. MUHAMMAD FAHEEM**

Member - PC

Pharmacist  
SMBB Institute of Trauma, Karachi

Dr. Muhammad Sabir Memon  
Executive Director

**DR. MUHAMMAD SABIR MEMON**  
Executive Director  
Shahid Mohtarma Benazir Bhutto  
Institute of Trauma, Karachi  
SMBB Institute of Trauma, Karachi





SHAHEED MOHTARMA BENAZIR BHUTTO  
INSTITUTE OF TRAUMA, KARACHI

No. PROC/SMBBIT/2023-24/1263

Dated: May 07, 2024

LETTER OF ACCEPTANCE

M/s. HAQ ENTERPRISES,  
Plot # FL-D-3, Office # A-1, 1st Floor,  
Sohail Center, Gulshan e Iqbal,  
Karachi, Pakistan

Subject: **LETTER OF ACCEPTANCE FOR PROCUREMENT OF GENERAL ITEMS MACHINERY PARTS & PLANT & MACHINERY**  
**NIT NO: PROC/SMBBIT/2023-24/1131 (Dated: 22-02-2024),**  
**Ref no: PROC/SMBBIT/(OTHERS-02)/2023-24**

- A. Notice Inviting Tender issued in respect of "PROCUREMENT OF GENERAL ITEMS MACHINERY PARTS & PLANT & MACHINERY" to be supplied during the Financial Year 2023-24.
- B. The said Bid (Single Stage – One Envelope Procedure Basis) submitted on **14-March-2024**, by your firm.
- C. Meeting of Procurement Committee of SMBB Institute of Trauma, Karachi was held on **14-March-2024**, to open tender **PROCUREMENT OF GENERAL ITEMS MACHINERY PARTS & PLANT & MACHINERY** 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 No.	Name of Item	Tentative Qty	U.O.M	Quoted Product Description / Make / Brand Name	Country of Origin	Offered Price	Total Price
<b>SECTION A: GENERAL ITEMS</b>								
1	1	Stainless Steel Racks Required for Operation Theater and CSSD SS rack size 48"x18"x72" with 8 stages distance between each partition 8" maximum load capacity 1500kg (same as existing or better)	30	Racks	Grateful	-	148,786.00	4,463,580
2	2	Stainless Steel Racks Required for Operation Theater and CSSD SS rack size 36"x18"x72" with 8 stages distance between each partition 8" maximum load capacity 1,000kg (same as existing or better)	20	Racks	Grateful	-	119,786.00	2,395,720
3	3	MS Storage Racks required for Stores MS racks size 48" x 18" x 72" with 4 adjustable stages maximum load capacity 500kg (same as existing or better)	50	Racks	Grateful	-	47,786.00	2,389,300
4	5	Vacuum Regulator with jar with lid having capacity of 1 liter auto-cleavable – Re-useable Warranty should be 1 year during maintenance period	150	Pcs.	China	-	16,000.00	2,400,000
5	6	Oxygen Flow meter wall type Warranty should be 1 year during maintenance period	300	Pcs.	China	-	6,200.00	1,860,000
6	7	Oxygen Flow meter for cylinders	100	Pcs.	China	-	6,200.00	620,000
7	9	Instrument Trolleys • Frame constructed of 2½cm stainless steel pipe • Trolley fitted with stainless steel sheet shelves • Shelves are 2cm recessed trays for safety of instruments • Mobile on 75mm dia. Wheels • Size: 43 x 73 x 82(H) cm • ISO9001 & CE certified fabrication (Same as existing at SMBBIT)	20	Nos.	Grateful	-	33,786.00	675,720
8	10	Linen trolley with cover (Same as existing at SMBBIT or better)	30	Nos.	Grateful	-	27,786.00	833,580
9	11	Hampers trolley for soiled linen with cover (Same as existing at SMBBIT or better)	20	Nos.	Grateful	-	27,786.00	555,720
10	14	SpO2 probe adult for Infinium, OMNI 3	70	Pcs.	China	-	6,400.00	448,000
11	15	Reusable 5 channel leads ECG for Infinium, OMNI 3	40	Pcs.	China	-	11,000.00	440,000
12	16	SpO2 probe paed for Infinium, OMNI 3	20	Pcs.	China	-	6,600.00	132,000
13	17	Reusable NIBP cuff (paeds) single way tube without bladder for Infinium, OMNI 3	20	Pcs.	China	-	1,800.00	36,000
14	18	Reusable NIBP cuff (XL) single way without bladder for Infinium, OMNI 3	20	Pcs.	China	-	3,000.00	60,000
15	19	SpO2 probe paed for Nihon kohden Monitor	20	Pcs.	China	-	6,600.00	132,000
16	20	Nozzle connector b/w Hose pipe and cuff for Infinium, OMNI 3, Nihon kohden & Medec.	200	Pcs.	China	-	6,900.00	1,380,000
17	21	Reusable NIBP cuff (Adult) single way tube without bladder for Infinium, OMNI 3	80	Pcs.	China	-	1,800.00	144,000



S.#	Item No.	Name of Item	Tentative Qty	U.O.M	Quoted Product Description / Make / Brand Name	Country of Origin	Offered Price	Total Price
18	23	SpO2 probe adult for BLT, V6	30	Pcs.	China	-	16,000.00	480,000
19	24	SpO2 probe paed for BLT, V6	10	Pcs.	China	-	16,000.00	160,000
<b>Total Amount</b>								<b>19,605,620</b>
<b>Amount in word: Rupees Nineteen Million Six Hundred Five Thousand Six Hundred Twenty Only.</b>								

- 1 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".
- 2 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.
- 3 If agreed, Form of Contract on Non-Judicial Stamp Paper will be submitted (As per Terms and conditions)
- 4 **SECURITY DEPOSIT: @05% Security Deposit (Performance Security) of Rs. 980,281/-** 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).
- 5 **Stamp duty @0.35%** of ordered amount shall be paid through **E-stamp duty (www.estamps.gos.pk)** and the paid receipt and agreement should have to be submitted to the Procurement department (SMBB-IT), Karachi.
- 6 Documents showing any set of exemption from duty taxes should also attached with the bills.
- 7 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.

  
 EXECUTIVE DIRECTOR / D.D.O  
 SMBB INSTITUTE OF TRAUMA, KARACHI

Copy to:-

- The Director (A&F) SPPRA with reference to SPPRA PPMS ID **T00518-23-0005** & Evaluation Report # **BE00518-23-0005-2**
- Accounts & Finance Department, SMBB Institute of Trauma.

  
 EXECUTIVE DIRECTOR / D.D.O  
 SMBB INSTITUTE OF TRAUMA, KARACHI

  
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SHAHEED MOHTARMA BENAZIR BHUTTO  
INSTITUTE OF TRAUMA, KARACHI

No. PROC/SMBBIT/2023-24/1321

Dated: May 21, 2024

AWARD OF TENDER (A.O.T)

M/s. HAQ ENTERPRISES,  
Plot # FL-D-3, Office # A-1, 1st Floor,  
Sohail Center, Gulshan e Iqbal,  
Karachi, Pakistan

Sub: PROCUREMENT OF GENERAL ITEMS ON FRAMEWORK CONTRACT BASIS (SPPRA RULE 15(B))

1	Reference to our subject tender Dated: 14-03-2024 and letter of Acceptance Ref # PROC/SMBBIT/2023-24/1263, Dated: 07-05-2024; 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 No.	Name of Item	Tentative Qty	U.O.M	Quoted Product Description / Make / Brand Name	Country of Origin	Offered Price	Total Price
		<b>SECTION A: GENERAL ITEMS</b>						
1	1	Stainless Steel Racks Required for Operation Theater and CSSD SS rack size 48"x18"x72" with 8 stages distance between each partition 8" maximum load capacity 1500kg (same as existing or better)	30	Racks	Grateful	-	148,786.00	4,463,580
2	2	Stainless Steel Racks Required for Operation Theater and CSSD SS rack size 36"x18"x72" with 8 stages distance between each partition 8" maximum load capacity 1,000kg (same as existing or better)	20	Racks	Grateful	-	119,786.00	2,395,720
3	3	MS Storage Racks required for Stores MS racks size 48" x 18" x 72" with 4 adjustable stages maximum load capacity 500kg (same as existing or better)	50	Racks	Grateful	-	47,786.00	2,389,300
4	5	Vacuum Regulator with jar with lid having capacity of 1 liter auto-cleavable - Re-useable Warranty should be 1 year during maintenance period	150	Pcs.	China	-	16,000.00	2,400,000
5	6	Oxygen Flow meter wall type Warranty should be 1 year during maintenance period	300	Pcs.	China	-	6,200.00	1,860,000
6	7	Oxygen Flow meter for cylinders	100	Pcs.	China	-	6,200.00	620,000
7	9	Instrument Trolleys • Frame constructed of 2 1/2cm stainless steel pipe • Trolley fitted with stainless steel sheet shelves • Shelves are 2cm recessed trays for safety of instruments • Mobile on 75mm dia. Wheels • Size: 43 x 73 x 82(H) cm • ISO9001 & CE certified fabrication (Same as existing at SMBBIT)	20	Nos.	Grateful	-	33,786.00	675,720
8	10	Linen trolley with cover (Same as existing at SMBBIT or better)	30	Nos.	Grateful	-	27,786.00	833,580
9	11	Hampers trolley for soiled linen with cover (Same as existing at SMBBIT or better)	20	Nos.	Grateful	-	27,786.00	555,720
10	14	SpO2 probe adult for Infinium, OMNI 3	70	Pcs.	China	-	6,400.00	448,000
11	15	Reusable 5 channel leads ECG for Infinium, OMNI 3	40	Pcs.	China	-	11,000.00	440,000
12	16	SpO2 probe paed for Infinium, OMNI 3	20	Pcs.	China	-	6,600.00	132,000
13	17	Reusable NIBP cuff (paeds) single way tube without bladder for Infinium, OMNI 3	20	Pcs.	China	-	1,800.00	36,000
14	18	Reusable NIBP cuff (XL) single way without bladder for Infinium, OMNI 3	20	Pcs.	China	-	3,000.00	60,000
15	19	SpO2 probe paed for Nihon kohden Monitor	20	Pcs.	China	-	6,600.00	132,000
16	20	Nozzle connector b/w Hose pipe and cuff for Infinium, OMNI 3, Nihon kohden & Medec.	200	Pcs.	China	-	6,900.00	1,380,000
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<b>Total Amount</b>								<b>19,605,620</b>
<b>Amount in word: Rupees Nineteen Million Six Hundred Five Thousand Six Hundred Twenty Only.</b>								
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.							
8	<b>PAYMENT : Through office of:</b>							
	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	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	The stores if found damaged shall be replaced by supplier free of cost.							
10	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 (Wherever applicable).							
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 T00518-23-0005 & Evaluation Report # BE00518-23-0005-2
- Store Incharge, SMBB Institute of Trauma, Karachi
- Accounts & Finance Department, SMBB Institute of Trauma, Karachi

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

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





22 APR 2024

ISSUED TO WITH ADDRESS  
THROUGH WITH ADDRESS  
PURPOSE  
NOT  
VENDOR NOT RESPONSIBLE

**FOR THE PROCUREMENT**

Advocate No. 6559

AG

**NIT NO: PROC/SMBBIT/2023-24/1131 (Dated:22-02-2024).**

LETTER OF ACCEPTANCE NO: PROC/SMBBIT/2023-24/1263 DATED: 07-may-2024

BETWEEN

A Supplier, having its office at Plot # FL-D-3, Office # A-1, 1st Floor, Sohail Center, Gulshan e Iqbal, **Karachi, Pakistan** (Hereinafter mentioned as Supplier), which expression shall be deemed to mean and include its successors-in-interest and permitted assigns;

AND

(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 ON FRAMEWORK CONTRACT BASIS (SPPRA RULE 15(B))"** remedying of any defect therein.

Dr. Muhammad Sabir Memon		
Executive Director		

Page 1 of 5





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13	17	Reusable NIBP cuff (paeds) single way tube without bladder for Infinium, OMNI 3	20	Pcs.	China	-	1,800.00	36,000
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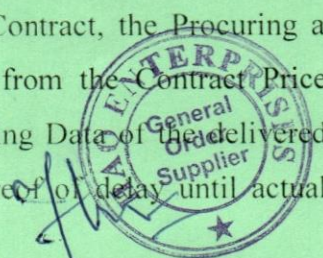
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18	23	SpO2 probe adult for BLT, V6	30	Pcs.	China	-	16,000.00	480,000
19	24	SpO2 probe paed for BLT, V6	10	Pcs.	China	-	16,000.00	160,000
<b>Total Amount</b>								<b>19,605,620</b>
<b>Amount in word: Rupees Nineteen Million Six Hundred Five Thousand Six Hundred Twenty 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. 19,605,620/-** hereinafter called "The Contract Price".

Now this agreement witnesseth as follows:

- 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.
- 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:
  - Purchase order(s)/ Letter of Acceptance where applicable.
  - The completed Form of Bid along with Schedules to Bid.
  - Condition of Contract & Contract Data
  - The priced Scheduled of prices
  - The specifications
- 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.
- 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.
- LIQUIDITY DAMAGES:** Delivery of above mentioned items within the period of One Month. 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.

(If the Supplier fails to deliver any or all of the Goods or to perform the Services within the period(s) specified in the Contract, the Procuring agency shall, without prejudice to its other remedies under the Contract, deduct from the Contract Price, as liquidated damages, a sum equivalent to the percentage specified in Bidding Data of the delivered price of the delayed Goods or unperformed Services for each week or part thereof of delay until actual delivery or performance, up to a maximum deduction of the

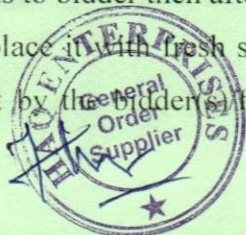




percentage specified in Bidding Data. Once the maximum is reached, the Procuring agency may consider termination of the Contract.)

6. **PLACE OF DELIVERY:** Store Department of SMBB Institute of Trauma, Karachi, and satellite trauma centers in different locations of Sindh Province.
7. **DISPATCH INSTRUCTION:** Free delivery to the Consignee i.e. SMBB Institute of Trauma, Karachi, and satellite trauma centers in different locations of Sindh Province.
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:** @05% Security Deposit (Performance Security) of **Rs. 980,281/-** 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)** and the paid receipt and agreement should have to be submitted to the Procurement department (SMBB-IT), Karachi.
16. **Contract agreement valid for 1 year from the date of signing.** Orders will be placed as per requirement after receiving demand from the concern department of Shaheed Mohtarma Benazir Bhutto Institute of Trauma, Karachi, and satellite trauma centers in different locations of Sindh Province.
17. If supplied goods are declared sub-standard, adulterated, Spurious, counterfeit, Misbranded or contaminated the Manufacturer and their Distributor are equally responsible and are bound to supply additional quantity of whole batch free of cost. (the case will be dealt in accordance to the Drug Act, 1976) (Where applicable).
18. **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**).

During the course of consumption, if any item is found to have short shelf life, SMBBIT Store management intimate before 6 months to bidder then after intimation to the bidder(s), it would be the responsibility of the bidder(s)/firm(s), to replace it with fresh stock of longer shelf life. However, if the item becomes expired due to non-replacement by the bidder(s)/firm(s), well in time, then the firm will provide the fresh stock



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against the expired one, free of cost. The expired stock would be destroyed by the SMBBIT committee constituted for that purposes. (Where Applicable)

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

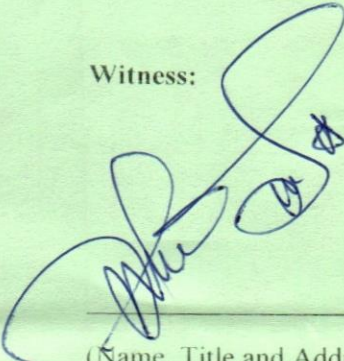
IN WITNESS WHEREOF the parties hereto have caused this Contract Agreement in accordance with their respective hands and seals, the day, month and the year first above written.

Signature of the Supplier

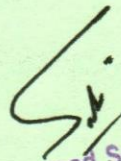
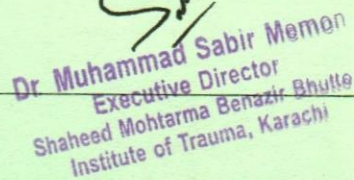
  
(Seal) 

Signed, Sealed and Delivered in the presence of:

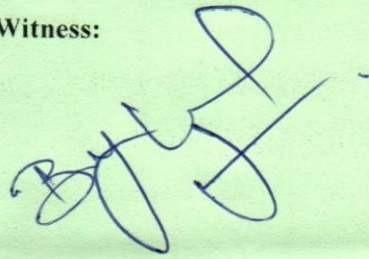
Witness:

  
(Name, Title and Address)

Signature of the Purchaser

  
(Seal) 

Witness:

  
(Name, Title and Address)  
**MANAGER**  
**SUPPLY CHAIN MANAGEMENT**  
**SMBB Institute of Trauma, Karachi**





**SHAHEED MOHTARMA BENAZIR BHUTTO  
INSTITUTE OF TRAUMA**

No: PROC/SMBBIT/2023-24/1266

Dated: May 07, 2024

**LETTER OF ACCEPTANCE**

M/s. UNITED CONSTRUCTION Co.,  
Office C-19, Metroville-I, Block # 3, SITE,  
Karachi, Pakistan

**SUBJECT: LETTER OF ACCEPTANCE FOR PROCUREMENT OF GENERAL ITEMS  
MACHINERY PARTS & PLANT & MACHINERY**  
**NIT NO: PROC/SMBBIT/2023-24/1131 (Dated: 22-02-2024),**  
**Ref no: PROC/SMBBIT/(OTHERS-02)/2023-24**

A. Notice Inviting Tender issued in respect of "PROCUREMENT OF GENERAL ITEMS MACHINERY PARTS & PLANT & MACHINERY" to be supplied during the Financial Year 2023-24.

B. The said Bid (Single Stage – One Envelope Procedure Basis) submitted on **14-March-2024**, by your firm.

C. Meeting of Procurement Committee of SMBB Institute of Trauma, Karachi was held on **14-March-2024**, to open tender **PROCUREMENT OF GENERAL ITEMS MACHINERY PARTS & PLANT & MACHINERY** 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.

**SECTION C: PLANT & MACHINERY:**

S. NO.	Scope of Work	Qty.	UOM	Unit Price	Total Price
1	<b>A Supply, erection, connecting, testing and commissioning of 1400 KVA Standby, 1250 KVA Prime Power, 400/230 V, 50 Hz 3 Phase, 1500 RPM, 0.8 PF 4-Wire, neutral grounded Diesel Generator Set</b>	2	Nos.	80,500,000	161,000,000
	making necessary arrangement with the existing distribution system complete with M.S Base Frame, dat service fuel oil external storage tank of 2500 liter capacity, starting DC Batteries with heavy duty suitable battery charger, exhaust silencer, water cooled radiator, brushless alternator engine control panel, anti-vibration mounting, acoustic enclosure, complete as specification. Country of Origin: USA, Western Europe Chinese make not acceptable.	1	L/S	55,500,000	55,500,000
	<b>Renovation of Powerhouse</b> Renovation of Powerhouse with all aspects Complete soundproofing of Powerhouse complete paint job	1	L/S	4,750,000	4,750,000

*Signature*





# SHAHEED MOHTARMA BENAZIR BHUTTO INSTITUTE OF TRAUMA

No: PROC/SMBBIT/2023-24/ 12-66

Dated: 07-May-2024

Shifting of Materials/Equipment Transportation & shifting of existing Genset & other materials to the other location within the city		1	L/S	7,855,000	7,855,000
<b>Technical Specification</b>					
Engine					
1	Perkin / Caterpillar / Cummins UK,USA / European origin				
2	Alternator Stamford, Leroy-somer UK, USA, European based or equivalent from the same origin				
3	COUPLING				
4	Generator assembled by				
5	Output frequency				
6	Rated speed				
7	Prime power				
8	Standby power				
9	Rated voltage				
10	Power factor				
11	Nominal frequency				
12	Voltage regulation (Max.)				
13	Steady speed droop(%)				
14	Exciter type				
15	Class of Insulation				
16	Gen set Controller module				
17	Protection grade				
18	Speed governor				
19	Cooling system				

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# SHAHEED MOHTARMA BENAZIR BHUTTO INSTITUTE OF TRAUMA

No: PROC/SMBBIT/2023-24/1266

Dated: 07-May-2024

		Coolant drain line with valve Coolant level sensor with water level switch/ indicator Max. water temperature at load Outlet water temperature Thermostat temperature range Automotive Battery Charger Gel Type With 900 CCA (3 Years Warranty) Overload shutdown Short circuit shutdown Low oil pressure shutdown Under & Over speed shutdown Under & Over voltage shutdown Over winding temperature shutdown Phase sequence, Phase Failure monitoring and tripping Under & Over Frequency Monitoring and tripping Reverse Power Monitoring and tripping Voltmeter Frequency meter Ampere meter Hour meter, KWH Meter Alarms and faults Oil pressure gauge Water temperature gauge Battery voltage & Fuel level Heavy duty fabricated steel skid type based frame with anti- vibration mounting /Isolators, Engine and alternator shall be mounted on a same frame steel skid. Built-in damper for anti-vibration Two The bidder is to provide all OEM recommended parts including consumables (excluding Oil and Coolant) Required for schedule maintenance / operation for first 8 Service (minimum up to 2000 running hours of operation) of the equipment but not limited to the following			
20	Battery Charger				
21	Batteries				
22	Engine Protections				
23	Metering				
24	Generator Frame				
25	Parts	1. Oil Filter (8 sets) 2. Fuel Filter (8 sets) 3. Water Separator (8 sets) 4. Air Filter (2 sets) 5. Fan Belt (2 sets)			

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# SHAHEED MOHTARMA BENAZIR BHUTTO INSTITUTE OF TRAUMA

No: PROC/SMBBIT/2023-24/1266

Dated: 07-May-2024

26	Warranty	6. Genuine AVR (1 set) Two year or 4000 working hours which one is earlier from the date of testing and commissioning				
Note: UCC has to provide Operation & Maintenance during “Maintenance Period” of 24 months after completion of job in all respects, including manpower deployment with existing manpower of the Institute and providing them all operational trainings of the system and replacement or repairing of spare parts and consumables along with periodic servicing during maintenance period as per manufacturer operational manuals of equipment and required applicable standards all necessary drawings & its software access after the supply, Installation and commissioning, at no extra cost.						
2	B	Fabrication, providing, installation and testing of synchronizing and AMF/ATS panel including all safeties to control 04 Nos. Generating sets as per load requirement with attached drawings.				All works mentioned in Item B are included in Item A quoted price.
	Technical Specification					
		<u>Refurbishment/Upgrading of Existing LV Panels:</u>				
	1	Study the existing panels, specify components/parts to be refurbished, retained or be upgraded in view of the addition of the Diesel generators for parallel operation and execute all the works. The Work shall include Testing, and commissioning of existing Synchronizing and AMF / ATS Panel installed at site, complete in all respects with arrangement and replacement of required spare parts.	1	Nos.		
		The Automatic synchronization system contains all necessary functions for protection and control of the 4 Nos. Gen-set in parallel with KE by providing provision of Grid synchronization and soft changeover mechanism complete in all respects as per required applicable standards. It also contains all necessary 3-phase measuring circuits and all values and alarms are presented on the LCD display.				
	1.1	Supply, installation, testing and commissioning of Auto Synchronization module which is capable to synchronize all the Gen sets of following capacities 4 Nos. 1250 kW Diesel Gen Set.	1	Job		
	1.2	Supply installation, testing and commissioning of Control wiring & Containment between DG Set + Synch Module and synch Module on already provided ACB's inside enclosure or LV Panel with other accessories for DG sets system for Auto Synchronizing, Load Sharing and Load Management facilities. The Synch. Modules shall be enclosed in already provided Panel with ventilation fan. Complete in all respect. Note: The existing panel size on site is 1800mmx750mmx800mm	1	Job		
1.3	Supply & Installation of motor mechanism, UVT and Shunt coil for LV breaker which is already installed in existing LV Panel. The Contractor / Vendor shall also provide the services for existing breakers before energizing. Note: The already installed Merlin Gerin ACB capacity is 1600A &. model No is M20 Hi.	1	Job			
1.4	Supply, termination and laying of all required control cable will be supply by vendor. Control cables will be laying through already installed cable trays.	1	Job			

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**SHAHEED MOHTARMA BENAZIR BHUTTO  
INSTITUTE OF TRAUMA**

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Dated: 07-May-2024

1.5	Supply installation, testing and commissioning of Bus Bar link to ACB. The Bus Bar shall be consist of 99.99% imported Copper of appropriate rating to meet the designed load requirement of 6300A including all safeties to be connected with existing busbar. Complete in all respect as per Standard.	1	Job		
2	The Contractor shall arrange the temporary connection between Incoming Busway and Outgoing Busway of Diesel Genset # 02 while working on Synchronizing panel and replacing its bus bar as per required applicable standards.	1	Job		
3	De-termination of existing cables installed from Diesel Gen Set # 01 to LT panels and handover to client.	1	Job		
4	Interconnection between Busways and 02 Nos. of Diesel Gen, Sets using 99.99% Imported Copper bus bars links and appropriate measures and materials as per required applicable standards.	1	Job		
5	Interconnection between Busways and 04 Nos. of Diesel Gen, sets using 99.99% Imported Copper bus bars links and appropriate measures and materials as per required applicable standards.	1	Job		
6	Interconnection between Busways and SYNCHRONIZING and AMF / ATS Panel using 99.99% Imported Copper bus bars links and appropriate measures and materials as per required applicable standards	1	Job		
7	Interconnection between Busways and Main LT Panels (Load Bus 1, Load Bus 2, Load Bus 3) placed in Electric room using 99.99% Imported Copper bus bars links and appropriate measures and materials as per required applicable standards	1	Job		
8	Complete System Quality inspection & check from a reputable recognized third-party vendor having experience of working in Generators, Switchgear and Synchronization Panel, during and after completion of all the works and before starting/energizing the system. Third-party inspection report must cover all the technical details of design & system compatibility and material quality after performing the required tests as per standards and payment will be made after submission of satisfactory compliance report with installation and completion report. Third-part inspection vendor must be registered and recognized with EIS or any other regulatory authority.	1	Job		
9	Operation & Maintenance during "Maintenance Period" of 24 months after completion of job in all respects, including manpower deployment with existing manpower of the Institute and providing them all operational trainings of the system and replacement or repairing of spare parts and consumables along with periodic servicing during maintenance period as per manufacturer operational manuals of equipment and required applicable standards, at no extra cost.	1	Job		

**SCOPE OF WORK**

**Location of Site:**

2<sup>nd</sup> Floor of SMBB Institute of Trauma, Karachi

**Main Points of Contract:**

- 10
- Bidders must carefully read all the details of this bidding document and may visit and inspect the existing generating and allied systems at his own expense and responsibility, prior to submission of tender. After submission of bid, he shall be liable to comply all the terms and conditions including but not limited to mentioned in this document and no claim whatsoever shall be entertained.
  - Re-modification, Balance Work, Testing, and commissioning with full functionalization of existing 2 Nos. Cummins DG Sets (1250kW each) and its allied accessories installed at site complete in all respects with spare parts arrangement and replacement including all safeties & monitoring accessories to control & measure

*Signature*





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operational parameters and ensure that these 02 Nos. DG sets 1250kW each is compatible for connecting with each other as per required applicable standards and also maintain suitable operational environment for these generators to work.

3. Supply, Installation, Re-modification, Balance Work, Testing, and commissioning with full functionalization of Synchronization module and existing SYNCHRONIZING and AMF / ATS Panel installed at site including wiring, components, all accessories etc. including panel modification required (if any), complete in all respects with spare parts arrangement & replacement and existing bus bar replacement with 99.99% Imported Copper busbar of appropriate rating to meet the designed load requirement of 6300A including all safeties & monitoring accessories to control & measure operational parameters of 4 nos. of generating sets (02 Nos. of Cummins DG Sets. & 02 Nos. of Newly installed Diesel Gen set, 1250kW each) in parallel with KE by providing provision of Grid synchronization and soft changeover mechanism as per required applicable standards. The synch module shall be capable of communicating with the already present generator synch panel. The panels must be properly earthed and earth testing report must be provided.
4. The contractor shall arrange OEM trained technical resource of sync modules and PLC system to ensure uninterrupted power supply during installation and commissioning activities.
5. Complete control & Power wiring including termination at both ends module to module, module to generator or wherever required will be in scope of works. Complete in all respects.
6. Arrangement of temporary interconnection between Incoming Busway and Outgoing Busway of Diesel Genset # 02 while working on Synchronizing panel and replacing its busbar to ensure system integrity and backup power availability during work as per required applicable standards.
7. De-termination of existing cables installed from Diesel Genset # 01 to LT panels and handover to client.
8. Interconnection between Bus ways and 04 Nos. of Diesel Gensets using 99.99% Imported Copper bus bars links and appropriate measures and materials as per required applicable standards.
9. Interconnection between Busways and SYNCHRONIZING and AMF / ATS Panel using 99.99% Imported Copper bus bars links and appropriate measures and materials as per required applicable standards.
10. Interconnection between Busways and Main LT Panels (Load Bus 1, Load Bus 2, Load Bus 3) placed in Electric room using 99.99% Imported Copper bus bars links and appropriate measures and materials as per required applicable standards.
11. Submission of manufacturer manuals, connection drawings, software, and





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programming manuals of all work after making them functional.

12. Submission of Copper certificate, breaker certificate, Synchronization module certificate, technical catalogues, component lists, Control drawings etc.
13. Submission of Third-party testing & inspection certificate.
14. Submission of operation & instruction manual, drawings and schematics in hardcopy and softcopy form detailing operating procedure and showing system failure scenarios of all equipment.
15. Supply, installation, re-modification, repairing, testing, and commissioning including transportation, shifting, and storing material at site, manufacturer manuals, drawings, submittals must be included in quoted price of all works & accessories, complete in all respects.
16. Repairing and shifting (as decided location) of existing Gen sets of 02 Nos. all the damages done to the building and existing system during work if any at no extra cost.
17. The contractor will do all the above work with his own forces and equipment.
18. The project will be on Turnkey basis which means that the contractor will be responsible for arranging all required items on its own including but not limited to batteries, sensors, even screws etc.
19. The essence of the contract is to ensure that the Diesel Generators Nos. 04 and Synchronization panel are functional and be able to run the desired load as mentioned in the specifications above all gen sets.
20. Operation & Maintenance during "Maintenance Period" of 12<sup>th</sup> months after completion of job in all respects, including manpower deployment with existing manpower of the Institute and providing them all operational trainings of the system and replacement or repairing of spare parts and consumables along with periodic servicing during maintenance period as per manufacturer operational manuals of equipment and required applicable standards, at no extra cost.

**Manufacturing Experience/Quality Assurance:**

Subject to compliance with the requirements of the Contract Documents, acceptable manufacturers are to be firms regularly engaged in manufacture of all material specified in this document, whose products have been in satisfactory use under similar service conditions for not less than ten years.

The manufacturer shall have more than 10 years' experience in the supply and installation of synch module for projects in Pakistan and must have a permanently residing team of certified technician available at site within 36 hours of complain.

**LV Switchgear Panel/Synchronization Panel:**





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The Low Voltage Distribution Panels shall be completed in all respects with material and accessories, factory assembled, tested, and finished according to the Specifications and to the standard requirements.

The Low Voltage Distribution Panel shall:

- i. be front operation type,
- ii. be suitable for 400 Volts, 3 phase 4 wire, 50 Hz system,
- iii. be designed for flush mounting of all instruments on the front side,
- iv. have incoming and outgoing cable termination arrangement, terminal block/line up terminals,
- v. be provided with stainless steel name plate on the front side of door,
- vi. have all incoming and outgoing connections from top or bottom according to site requirements,
- vii. have door grounded by flexible braided copper strip,
- viii. have wiring diagram in the pocket inside the door of Panel.
- ix. have hinged protective metallic door required with knob/handle.
- x. have cable hanging arrangement.
- xi. have all Adjustable Type breakers
- xii. have Control breakers (MCB Type)

All the components used in the Distribution panel shall be type tested and must comply with the requirements of applicable standards.

**Components:**

The Synchronization Panel shall be provided with components required for the satisfactory operation of the panel and of the electrical system and must comply with the requirements of applicable standards. Specifications of typical components which maybe included but not limited to are follows:

**i. Control module**

The synchronization control module monitors the generator and indicates operational status and fault conditions, automatically starting or stopping the engines smartly on demand load or fault conditions.

- a) Control module should have comprehensive load sharing capabilities with minimum configurable 12 inputs and 12 configurable outputs.
- b) It should have an ability to record the 500 minimum log events to facilitate easy maintenance.
- c) Control module should have an extensive number of fixed monitoring and metering and protection features are included as well as comprehensive communication and system expansion option.
- d) Module should have following key load share features:

- Sequential set start.





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- Manual voltage/ frequency adjustment.
  - Automatic hour run balancing.
  - Dead bus sensing.
  - Bus failure detection.
  - Direct governor and AVR control.
  - Main (utility de-coupling test mode option.
  - It should have built-in reverse relay protection.
  - Flexibility to synchronise from Grid power
- e) RS485 remote communication ports should also be available with back lit LCD screen.
- f) Standard Features:
- Voltage (L-L, L-N)
  - Current (Phase)
  - Average Volt, Amp, Frequency
  - kW, KVA, kVA (Average, Phase, %)
  - Power Factor (Average, Phase)
  - kW-hr, KVA-hr (total)
  - Generator stator and bearing temp (with optional module)
- g) Generator Protection:
- Generator phase sequence
  - Over/Under voltage (27/59)
  - Over/Under frequency (81 O/U)
  - Reverse Power (kW) (32)
  - Reverse Reactive Power (KVA) (32RV)
  - Overcurrent (50/51)
- h) Engine Monitoring:
- Coolant temperature
  - Oil pressure
  - Engine speed (RPM)
  - Battery voltage
  - Run hours
  - Crank attempt and successful start counter
  - Enhanced engine monitoring (with electronic engines)
- i) Engine Protection
- Control switch not in auto (alarm)
  - High coolant temp (alarm and shutdown)
  - Low coolant temp (alarm)
  - Low coolant level (alarm)

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INSTITUTE OF TRAUMA**

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- High engine oil temp (alarm and shutdown)
- Low, high and weak battery voltage
- Over speed
- Over crank
- Low Oil Pressure

j) Control

- Run / Auto / Stop control
- Speed and voltage adjust
- Local and remote emergency stop
- Remote start/stop
- Cycle crank

k) Inputs & Outputs

- Two dedicated digital inputs
- Three analog inputs
- Six programmable digital inputs
- Eight relay out
- Two programmable digital outputs

l) Communications

- Primary and accessory CAN data links
- RS-485 annunciator data link
- Modbus RTU (RS-485 Half duplex)

**ii. Bus Bars**

The Bus bars shall be imported, tinned, made of 99.9% pure Copper high conductivity including accessories like, Fischer plates, nuts & bolts, mounting accessories etc. complete in all respects, electrolytic tin plated copper and shall be completely isolated and mechanically braced for the specified fault level. The identification of bus bars shall be by providing heat shrink color coded sleeves on complete bus bar lengths and these shall be red, yellow, and blue for phases and black for neutral. The earth bus bar shall be green.

The bus bars shall be for three phases, neutral and earth and shall be of appropriate size to meet the electrical and mechanical requirements of the system and must be suitable for the designed load of 6300A. The temperature rise shall not exceed 45°C at rated current.

Imported Copper certificate shall be submitted with bill of lading. Imported copper shall be checked prior to the installation at site.

**iii. Digital Multimeter and Analyzers**

All meters shall be flush mounting, Digital type with built-in selector switches. The front dimensions shall be 96 x 96 mm for meters.

The meters shall be of accuracy class 1.5 The ammeter shall be suitable for





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	<p>connection to 5 Amps secondary of current transformers or directly through shunt. The ammeters and voltmeters shall have measuring range as per the panel in which meters are installed.</p>
iv.	<p><b>Current Transformers</b></p> <p>Current transformers shall be provided having suitable transformation ratio. The current transformers shall be of suitable burden having accuracy class 1.0 The current transformers shall have 5 amps secondary.</p>
v.	<p><b>Motorized/Manual Changeover Switches</b></p> <p>Changeover switch must have three stable positions, unaffected by voltage fluctuations and vibrations, protecting loads from network disturbances. It must be capable of safe on-load switching for any type of load such that with its on-load transfer capabilities, it is not necessary to isolate loads prior to transfer.</p>
vi.	<p><b>Electronic Voltage Relay</b></p> <p>The voltage relay monitors the over voltage and the under voltage and the phase sequence L1, L2, L3 in an alternating three phase mains. Adjustment range +20% -20% of the nominal voltage.</p>
vii.	<p><b>Air-Circuit Breaker</b></p> <p>TP ACB with Motorized Spring Charge mechanism, Tripping coil, shunt trip coil, &amp; adjustable UVT and Overload, ground fault, instantaneous, long &amp; short time protection</p> <p><b>Other possible components:</b></p>
viii.	<p><b>Shunt Trip</b></p> <ul style="list-style-type: none"><li>• Under Voltage Trip</li><li>• Motor mechanism</li><li>• Synchronizing Module</li><li>• Battery Charger</li><li>• Dry Batteries</li><li>• Digital Voltmeter + VSS</li><li>• Digital Ammeter + ASS</li><li>• CT's</li><li>• 14- Pin Relay with Base</li><li>• Indication Lights R, Y, B</li><li>• DP MCB</li><li>• TP MCB</li><li>• Control Fuses with Base</li><li>• Emergency Stop</li><li>• Key Switch</li><li>• Push Reset</li></ul>

*Signature*





# SHAHEED MOHTARMA BENAZIR BHUTTO INSTITUTE OF TRAUMA

No: PROC/SMBBIT/2023-24/1266

Dated: 07 - May - 2024

- Panel Socket
- Panel Light with limit switch
- Louver, Exhaust Fan with Thermostat
- 2.5mm Line Up Terminal

## Installation:

All screws, nuts and bolts used for fixing the distribution board shall be galvanized. The Panel installation shall include connecting all incoming and outgoing cables. The cable entry in the boards shall be provided from top or bottom as required. All labor, equipment and tools required for complete installation and shall be provided by the Contractor. All outgoing and incoming cable connections shall be made, and special care shall be taken in fixing cable boxes and in cable connections to have no danger of leakage during operation. Earthing connections shall be made with the existing earthing pits of generators made by the previous contractor. The installation work must comply with the requirements of applicable standards

## Minimum Technical specifications of Synchronization Modules:

The synch controller modules must have the following minimum features but not limited to:

1. Expandable for both single and multiple gen-sets operating in standby or parallel modes.
2. Detachable modular construction for a variety of extension modules
3. Built-in synchronizer and load sharer to allow an integrated solution for gen-sets in standby, island parallel or mains parallel. Native cooperation of at least 4 gen-sets.
4. Able to support standard ECU types with future versions compatibility.
5. Ethernet and RS485 for remote internet connectivity.
6. Ability to connect with touch screen type HMI and/or other displays.
7. Capable of auto start load sharing, multi generator load share, mains control and bus-tie breaker control without need for separate control/automation PLC-based system
8. Should be able to synchronize both electronic and non-electronic gensets.
9. Automatically control change over from mains (utility) to generator supply or run generator in synchronization with the main (utility) to provide no-break operation.
10. Support of engines with ECU (Electronic Control Unit)
11. Integrated genset solution and signal sharing via CAN bus or similar protocol
12. Genset performance log
13. Built-in PLC (no external automation system or PLC required)
14. Separate TFT display
15. Configurable soft keys
16. Trends
17. Plug and play
18. Synch module and bus-tie module of same family/series
19. The synchronization control module monitors the generator and indicates operational status and fault conditions, automatically starting or stopping the engines smartly on demand load or fault conditions.





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20. The synchronization control module must be able to run 1 generator for emergency load in case of synch failure.
21. It must have monitoring system on Modbus or TCP/IP which can be displayed on simple desktop PC via software provided along with modules.
22. Control module should have an extensive number of fixed monitoring and metering and protection features included as well as comprehensive communication and system expansion option.
23. Automatic synchronizing and power control (via speed governor or ECU)
24. Baseload, Import / Export, Temp by Power
25. Peak shaving
26. Voltage and PF control (AVR)
27. Generator measurement: U, I, Hz, kW, KVA, PF, kWh, kVAhr
28. Mains measurement: U, I, Hz, kW, KVA, PF
29. Inputs and outputs configurable for various customer needs
30. 1× RS232 / 2× RS485 / RJ-45 interface with Modbus support
31. Event-based history with customer-selectable list of stored values; RTC; statistic values
32. Interface to remote display units
33. USB slave interface

The synchronization module must comply with the requirements of applicable standards.

**Proposed method of Performing Works:**

The contractor is required to submit a narrative outlining the method of performing the Works. The narrative should indicate in detail and include but not limited to:

- i. The sequence and methods in which he proposes to carry out the Works, including the number of shifts per day and hours per shift, he expects to work.
- ii. A list of all major items of constructional and erection plant, tools and vehicles proposed to be used in carrying out the Works at Site, including number of each kind, make, type, capacity of all equipment, working condition, which shall be deployed by him for Electrical Work and Erection, Testing and Commissioning of the Works, in sufficient detail to demonstrate fully that the equipment and installation will meet all the requirements of the Technical Provisions.
- iii. Design drawings and operation scenarios of Synchronization panels and components which he proposes to use during the work.
- iv. The procedure for installation of equipment and transportation of equipment and materials to the site.
- v. Organization chart indicating head office & field office personnel involved in management, supervision, and engineering of the Works to be done under the Contract.
- vi. The contractor shall list in this Schedule the key personnel he will employ from Head office and from Site office to direct and execute the Works, together with their names, qualifications, experience, positions held and their nationalities.

The method must comply with the requirements of applicable standards.

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Dated: 07 May 2024

**Testing:**

**1. Pre-Energization Third-party Inspection Certificate:**

- i. Contractor will submit a list of at least 5 reputable, recognized third-party vendors engaged in supply, installation, testing & commissioning of Diesel Generators, Switchgears, and Synchronization panels & modules for last 10 years.
- ii. Client will choose a vendor from the contractor provided list. However, client has the right to include any other vendor name in the above list and choose other than the provided list, if deemed necessary.
- iii. The third-party vendor will thoroughly inspect & check all the works performed by the contractor as mentioned in this contract and will provide satisfactory certificate after performing the required tests as well in compliance with the requirements of applicable standards.
- iv. Third-party inspection report must cover all the technical details of design & system compatibility and material quality after performing the required tests in compliance with the applicable standards.
- v. The system will be energized after the obtaining of the above satisfactory certificate and the third-party vendor will be present at the time of energization.

**2. Pre-energization Check:**

Prior to energization, check all new and reused existing branch circuit cable, components, and wires for continuity of circuitry and for short circuits. Correct malfunction when detected.

**3. Voltage and Current Values:**

The voltage and current in each circuit shall be measured and recorded after all connections have been made and the circuit is under load.

**4. Earth Resistance Test:**

Earth resistance tests shall be made by the Contractor on the existing earthing system of Generators made by the previous contractor, separating and reconnecting each earth connection as required in compliance with the applicable standards.

**5. Submittals:**

Contractor shall furnish all instruments and personnel required for tests. Submit copies of certified test results and satisfactory certificates for review. Test reports shall include circuit tested, test type, date and time of test, test results, relative humidity, temperature, and weather conditions etc.

**Final Submissions:**

1. Contractor will submit operation, service & instruction manuals, drawings and schematics in hardcopy and softcopy form detailing operating procedure and showing system failure scenarios.
2. Manufacturer manuals of Generators and Synchronization panels & modules.
3. Single line diagram and layout of the complete power generation system.
4. Programming manuals, connection diagrams of Generators and Synchronization panels & modules showing & detailing operational & fault scenarios.
5. Copper certificate, breaker certificate, synch modules certificate and their

45





**SHAHEED MOHTARMA BENAZIR BHUTTO  
INSTITUTE OF TRAUMA**

No: PROC/SMBBIT/2023-24/1266

Dated: 07-May-2024

	<p>catalogues, technical specifications, and company manuals.</p> <ol style="list-style-type: none"><li>6. As-built drawings showing all details including bus-bars arrangement and ratings/specifications.</li><li>7. Shop drawings, Isometric &amp; disposed view of panels.</li><li>8. Technical catalogues of synchronization modules.</li><li>9. Component list of Synchronization panel.</li><li>10. Programming manuals &amp; control drawings of synch panels and modules.</li><li>11. Testing, Commissioning, Monitoring, Installation&amp; Completion report with Third Party Verification.</li><li>12. Earthing testing report of the system.</li><li>13. Any other necessary drawings, documents, manuals etc.</li><li>14. Magar testing report of the system.</li></ol> <p><b>Note:</b> UCC has to provide Operation &amp; Maintenance during “Maintenance Period” of 24 months after completion of job in all respects, including manpower deployment with existing manpower of the Institute and providing them all operational trainings of the system and replacement or repairing of spare parts and consumables along with periodic servicing during maintenance period as per manufacturer operational manuals of equipment and required applicable standards all necessary drawings &amp; its software access after the supply, Installation and commissioning, at no extra cost.</p>	
	<b>TOTAL AMOUNT</b>	<b><u>229,105,000/-</u></b>
	<b>Rupee Two Hundred Twenty-Nine Million One Hundred Five Thousand Only.</b>	

1. 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".

2. 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.\

3. If agreed, Form of Contract on Non-Judicial Stamp Paper will be submitted (As per Terms and conditions)

4. **SECURITY DEPOSIT:** @05% Security Deposit (Performance Security) of **Rs. 11,455,250/-** 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).

5. **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.

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

*Signature*





**SHAHEED MOHTARMA BENAZIR BHUTTO  
INSTITUTE OF TRAUMA**

No: PROC/SMBBIT/2023-24/1266

Dated: 07 - May - 2024

7. 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.

olw **EXECUTIVE DIRECTOR / D.D.O**  
SMBB INSTITUTE OF TRAUMA – KARACHI

Copy forwarded to concern for information and necessary action, please;

1. **The Director** (Accounts & Finance), Sindh Public Procurement Regulatory Authority with reference to PPMS ID: T00518-23-0005 & Evaluation ID: BE00518-23-0005-2
2. **Manager Accounts & Finance Department**, SMBB Institute of Trauma.

olw **EXECUTIVE DIRECTOR / D.D.O**  
SMBB INSTITUTE OF TRAUMA – KARACHI

10/5/2024





SHAHEED MOHTARMA BENAZIR BHUTTO  
INSTITUTE OF TRAUMA, KARACHI

No. PROC/SMBBIT/2023-24/1324  
Dated: May 21, 2024

AWARD OF TENDER (A.O.T)

M/s. UNITED CONSTRUCTION Co.,  
Office C-19, Metroville-I, Block # 3, SITE,  
Karachi, Pakistan

Sub: PROCUREMENT OF GENERAL ITEMS ON FRAMEWORK CONTRACT BASIS (SPPRA RULE 15(B))

1	Reference to our subject tender Dated: 14-03-2024 and letter of Acceptance Ref # PROC/SMBBIT/2023-24/1266, Dated: 07-05-2024; 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 No.	Name of Item	Tentative Qty	U.O.M	Quoted Product Description / Make / Brand Name	Offered Price	Total Price
		SECTION C: PLANT & MACHINERY:					
1	A	Supply, erection, connecting, testing and commissioning of 1400 KVA Standby, 1250 KVA Prime Power, 400/230 V, 50 Hz 3 Phase, 1500 RPM, 0.8 PF 4-Wire, neutral grounded Diesel Generator Set	2	Nos.	Specification and Scope of work as per Letter of Acceptance	80,500,000.00	161,000,000
		making necessary arrangement with the existing distribution system complete with M.S Base Frame, dat service fuel oil external storage tank of 2500 liter capacity, starting DC Batteries with heavy duty suitable battery charger, exhaust silencer, water cooled radiator, brushless alternator engine control panel, anti-vibration mounting, acoustic enclosure, complete as specification. Country of Origin: USA, Western Europe Chinese make not acceptable.	1	L/S	Specification and Scope of work as per Letter of Acceptance	55,500,000.00	55,500,000
		Renovation of Powerhouse Renovation of Powerhouse with all aspects Complete soundproofing of Powerhouse complete paint job	1	L/S	Specification and Scope of work as per Letter of Acceptance	4,750,000.00	4,750,000
		Shifting of Materials/Equipment Transportation & shifting of existing Genset & other materials to the other location within the city	1	L/S	Specification and Scope of work as per Letter of Acceptance	7,855,000.00	7,855,000
2	B	Fabrication, providing, installation and testing of synchronizing and AMF/ATS panel including all safeties to control 04 Nos. Generating sets as per load requirement with attached drawings.	1	Nos.	All works mentioned in Item B are included in Item A quoted price. (Scope of work as per Letter of Acceptance)	-	-
Total Amount							229,105,000
Amount in word: Rupees Two Hundred Twenty-Nine Million One Hundred Five Thousand Only.							
2	Date of Delivery: As per Supply Order.						
3	Place of Delivery: SMBB Institute of Trauma, Karachi.						
4	Dispatch Instruction: Free Delivery to the Consignee .i.e. SMBB Institute of Trauma, Karachi.						
5	Name and Address of the Consignee: EXECUTIVE DIRECTOR - SMBB Institute of Trauma, Karachi.						
6	PARTICULAR GOVERNING SUPPLY:						
6.1	As per policy given in the bid documents.						
7	INSPECTION :						
7.1	Inspection Authority: Nominated Inspection Committee of SMBB-IT, Concerned Department of Supplied Items.						
8	PAYMENT : Through office of:						
	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 **T00518-23-0005** & Evaluation Report # **BE00518-23-0005-2**
- Store Incharge, SMBB Institute of Trauma, Karachi
- Accounts & Finance Department, SMBB Institute of Trauma, Karachi

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

  
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SMBB INSTITUTE OF TRAUMA







making necessary arrangement with the existing distribution system complete with M.S Base Frame, dat service fuel oil external storage tank of 2500 liter capacity, starting DC Batteries with heavy duty suitable battery charger, exhaust silencer, water cooled radiator, brushless alternator engine control panel, anti-vibration mounting, acoustic enclosure, complete as specification. Country of Origin: USA, Western Europe Chinese make not acceptable.	1	L/S	55,500,000	55,500,000
<b>Renovation of Powerhouse</b> Renovation of Powerhouse with all aspects Complete soundproofing of Powerhouse complete paint job	1	L/S	4,750,000	4,750,000
<b>Shifting of Materials/Equipment</b> Transportation & shifting of existing Genset & other materials to the other location within the city	1	L/S	7,855,000	7,855,000

### Technical Specification

<b>Engine</b>				
1	Perkin / Caterpillar / Cummins UK,USA / European origin	Stamford (CGT) / Equivalent (European) The alternator shall be drip-proof, screen protected as per IP-23 degree of Protection. The rotor shall be dynamically balanced to minimize vibration. The engine and alternator shall be directly coupled by means of self-aligning flexible. The engine and alternator shall be directly coupled by means of self-aligning flexible flange coupling to avoid misalignment. The coupling shall be provided with a protecting guard to avoid accidental contract. Caterpillar / F.G Wilson / European/ USA / equivalent		
2	Alternator Stamford, Leroy-somer UK, USA, European based or equivalent from the same origin			
3	COUPLING			
4	Generator assembled by			
5	Output frequency			
6	Rated speed			
7	Prime power			
8	Standby power			
9	Rated voltage			
10	Power factor			
11	Nominal frequency			
12	Voltage regulation (Max.)			
13	Steady speed droop(%)			
14	Exciter type			
15	Class of Insulation			
16	Gen set Controller module			
17	Protection grade			
18	Speed governor			
19	Cooling system			





			range			
	20	Battery Charger	Automotive Battery Charger			
	21	Batteries	Gel Type With 900 CCA (3 Years Warranty) Overload shutdown Short circuit shutdown Low oil pressure shutdown Under & Over speed shutdown Under & Over voltage shutdown			
	22	Engine Protections	Over winding temperature shutdown Phase sequence, Phase Failure monitoring and tripping Under & Over Frequency Monitoring and tripping Reverse Power Monitoring and tripping Voltmeter Frequency meter Ampere meter Hour meter, KWH Meter Alarms and faults Oil pressure gauge Water temperature gauge Battery voltage & Fuel level			
	23	Metering	Heavy duty fabricated steel skid type based frame with anti- vibration mounting /Isolators, Engine and alternator shall be mounted on a same frame steel skid. Built-in damper for anti- vibration			
	24	Generator Frame	Two The bidder is to provide all OEM recommended parts including consumables (excluding Oil and Coolant) Required for schedule maintenance / operation for first 8 Service (minimum up to 2000 running hours of operation) of the equipment but not limited to the following			
	25	Parts	1. Oil Filter (8 sets) 2. Fuel Filter (8 sets) 3. Water Separator (8 sets) 4. Air Filter (2 sets) 5. Fan Belt (2 sets) 6. Genuine AVR (1 set)			
	26	Warranty	Two year or 4000 working hours which one is earlier from the date of testing and commissioning			
	<p>Note: UCC has to provide Operation &amp; Maintenance during “Maintenance Period” of 24 months after completion of job in all respects, including manpower deployment with existing manpower of the Institute and providing them all operational trainings of the system and replacement or repairing of spare parts and consumables along with periodic servicing during maintenance period as per manufacturer operational manuals of equipment and required applicable standards all necessary drawings &amp; its software access after the supply, Installation and commissioning, at no extra cost.</p>					
2	B	Fabrication, providing, installation and testing of synchronizing and AMF/ATS panel including all safeties to control 04 Nos. Generating sets as per load requirement with attached drawings.		1	Nos.	All works mentioned in Item B are included in Item A
	Technical Specification					





	<b><u>Refurbishment/Upgrading of Existing LV Panels:</u></b>			<b>quoted price.</b>	
1	Study the existing panels, specify components/parts to be refurbished, retained or be upgraded in view of the addition of the Diesel generators for parallel operation and execute all the works. The Work shall include Testing, and commissioning of existing Synchronizing and AMF / ATS Panel installed at site, complete in all respects with arrangement and replacement of required spare parts. The Automatic synchronization system contains all necessary functions for protection and control of the 4 Nos. Gen-set in parallel with KE by providing provision of Grid synchronization and soft changeover mechanism complete in all respects as per required applicable standards. It also contains all necessary 3-phase measuring circuits and all values and alarms are presented on the LCD display.				
1.1	Supply, installation, testing and commissioning of Auto Synchronization module which is capable to synchronize all the Gen sets of following capacities 4 Nos. 1250 kW Diesel Gen Set.	1	Job		
1.2	Supply installation, testing and commissioning of Control wiring & Containment between DG Set + Synch Module and synch Module on already provided ACB's inside enclosure or LV Panel with other accessories for DG sets system for Auto Synchronizing, Load Sharing and Load Management facilities. The Synch. Modules shall be enclosed in already provided Panel with ventilation fan. Complete in all respect. <b>Note: The existing panel size on site is 1800mmx750mmx800mm</b>	1	Job		
1.3	Supply & Installation of motor mechanism, UVT and Shunt coil for LV breaker which is already installed in existing LV Panel. The Contractor / Vendor shall also provide the services for existing breakers before energizing. <b>Note: The already installed Merlin Gerin ACB capacity is 1600A &amp;, model No is M20 Hi.</b>	1	Job		
1.4	Supply, termination and laying of all required control cable will be supply by vendor. Control cables will be laying through already installed cable trays.	1	Job		
1.5	Supply installation, testing and commissioning of Bus Bar link to ACB. The Bus Bar shall be consist of 99.99% imported Copper of appropriate rating to meet the designed load requirement of 6300A including all safeties to be connected with existing busbar. Complete in all respect as per Standard.	1	Job		
2	The Contractor shall arrange the temporary connection between Incoming Busway and Outgoing Busway of Diesel Genset # 02 while working on Synchronizing panel and replacing its bus bar as per required applicable standards.	1	Job		
3	De-termination of existing cables installed from Diesel Gen Set # 01 to LT panels and handover to client.	1	Job		
4	Interconnection between Busways and 02 Nos. of Diesel Gen, Sets using 99.99% Imported Copper bus bars links and appropriate measures and materials as per required applicable standards.	1	Job		
5	Interconnection between Busways and 04 Nos. of Diesel Gen. sets using 99.99% Imported Copper bus bars links and appropriate measures and materials as per required applicable standards.	1	Job		
6	Interconnection between Busways and SYNCHRONIZING and AMF / ATS Panel using 99.99% Imported Copper bus bars links and appropriate measures and materials as per required applicable standards	1	Job		
7	Interconnection between Busways and Main LT Panels (Load Bus 1, Load Bus 2, Load Bus 3) placed in Electric room using 99.99% Imported Copper bus bars links and appropriate measures and materials as per required applicable standards	1	Job		
8	Complete System Quality inspection & check from a reputable recognized third-party vendor having experience of working in Generators, Switchgear and Synchronization Panel, during and after completion of all the works and before starting/energizing the system. Third-party inspection report must cover all the technical details of design & system compatibility and material quality after performing the required tests as per standards and payment will be made after submission of satisfactory compliance report with installation and completion report. Third-part inspection vendor must be registered and recognized with EIS or any other regulatory authority.	1	Job		
9	Operation & Maintenance during "Maintenance Period" of 24 months after completion of job in all respects, including manpower deployment with existing manpower of the Institute and providing them all operational trainings of the system and replacement or repairing of spare parts and consumables along with periodic servicing during maintenance period as per manufacturer operational manuals of equipment and required applicable standards, at no extra cost.	1	Job		
10	<b><u>SCOPE OF WORK</u></b>  <b>Location of Site:</b> 2 <sup>nd</sup> Floor of SMBB Institute of Trauma, Karachi  <b>Main Points of Contract:</b>				





1. Bidders must carefully read all the details of this bidding document and may visit and inspect the existing generating and allied systems at his own expense and responsibility, prior to submission of tender. After submission of bid, he shall be liable to comply all the terms and conditions including but not limited to mentioned in this document and no claim whatsoever shall be entertained.
2. Re-modification, Balance Work, Testing, and commissioning with full functionalization of existing 2 Nos. Cummins DG Sets (1250kW each) and its allied accessories installed at site complete in all respects with spare parts arrangement and replacement including all safeties & monitoring accessories to control & measure operational parameters and ensure that these 02 Nos. DG sets 1250kW each is compatible for connecting with each other as per required applicable standards and also maintain suitable operational environment for these generators to work.
3. Supply, Installation, Re-modification, Balance Work, Testing, and commissioning with full functionalization of Synchronization module and existing SYNCHRONIZING and AMF / ATS Panel installed at site including wiring, components, all accessories etc. including panel modification required (if any), complete in all respects with spare parts arrangement & replacement and existing bus bar replacement with 99.99% Imported Copper busbar of appropriate rating to meet the designed load requirement of 6300A including all safeties & monitoring accessories to control & measure operational parameters of 4 nos. of generating sets (02 Nos. of Cummins DG Sets. & 02 Nos. of Newly installed Diesel Gen set, 1250kW each) in parallel with KE by providing provision of Grid synchronization and soft changeover mechanism as per required applicable standards. The synch module shall be capable of communicating with the already present generator synch panel. The panels must be properly earthed and earth testing report must be provided.
4. The contractor shall arrange OEM trained technical resource of sync modules and PLC system to ensure uninterrupted power supply during installation and commissioning activities.
5. Complete control & Power wiring including termination at both ends module to module, module to generator or wherever required will be in scope of works. Complete in all respects.
6. Arrangement of temporary interconnection between Incoming Busway and Outgoing Busway of Diesel Genset # 02 while working on Synchronizing panel and replacing its busbar to ensure system integrity and backup power availability during work as per required applicable standards.
7. De-termination of existing cables installed from Diesel Genset # 01 to LT panels and handover to client.
8. Interconnection between Bus ways and 04 Nos. of Diesel Gensets using 99.99% Imported Copper bus bars links and appropriate measures and materials as per required applicable standards.
9. Interconnection between Busways and SYNCHRONIZING and AMF / ATS Panel using 99.99% Imported Copper bus bars links and appropriate measures and materials as per required applicable standards.
10. Interconnection between Busways and Main LT Panels (Load Bus 1, Load Bus 2, Load Bus 3) placed in Electric room using 99.99% Imported Copper bus bars links and appropriate measures and materials as per required applicable standards.
11. Submission of manufacturer manuals, connection drawings, software, and programming manuals of all work after making them functional.
12. Submission of Copper certificate, breaker certificate, Synchronization module certificate, technical catalogues, component lists, Control drawings etc.
13. Submission of Third-party testing & inspection certificate.





14. Submission of operation & instruction manual, drawings and schematics in hardcopy and softcopy form detailing operating procedure and showing system failure scenarios of all equipment.
15. Supply, installation, re-modification, repairing, testing, and commissioning including transportation, shifting, and storing material at site, manufacturer manuals, drawings, submittals must be included in quoted price of all works & accessories, complete in all respects.
16. Repairing and shifting (as decided location) of existing Gen sets of 02 Nos. all the damages done to the building and existing system during work if any at no extra cost.
17. The contractor will do all the above work with his own forces and equipment.
18. The project will be on Turnkey basis which means that the contractor will be responsible for arranging all required items on its own including but not limited to batteries, sensors, even screws etc.
19. The essence of the contract is to ensure that the Diesel Generators Nos. 04 and Synchronization panel are functional and be able to run the desired load as mentioned in the specifications above all gen sets.
20. Operation & Maintenance during "Maintenance Period" of 12<sup>th</sup> months after completion of job in all respects, including manpower deployment with existing manpower of the Institute and providing them all operational trainings of the system and replacement or repairing of spare parts and consumables along with periodic servicing during maintenance period as per manufacturer operational manuals of equipment and required applicable standards, at no extra cost.

**Manufacturing Experience/Quality Assurance:**

Subject to compliance with the requirements of the Contract Documents, acceptable manufacturers are to be firms regularly engaged in manufacture of all material specified in this document, whose products have been in satisfactory use under similar service conditions for not less than ten years.

The manufacturer shall have more than 10 years' experience in the supply and installation of synch module for projects in Pakistan and must have a permanently residing team of certified technician available at site within 36 hours of complain.

**LV Switchgear Panel/Synchronization Panel:**

The Low Voltage Distribution Panels shall be completed in all respects with material and accessories, factory assembled, tested, and finished according to the Specifications and to the standard requirements.

The Low Voltage Distribution Panel shall:

- i. be front operation type,
- ii. be suitable for 400 Volts, 3 phase 4 wire, 50 Hz system,
- iii. be designed for flush mounting of all instruments on the front side,
- iv. have incoming and outgoing cable termination arrangement, terminal block/line up terminals,
- v. be provided with stainless steel name plate on the front side of door,
- vi. have all incoming and outgoing connections from top or bottom according to site requirements,
- vii. have door grounded by flexible braided copper strip,
- viii. have wiring diagram in the pocket inside the door of Panel.
- ix. have hinged protective metallic door required with knob/handle.
- x. have cable hanging arrangement.
- xi. have all Adjustable Type breakers
- xii. have Control breakers (MCB Type)





All the components used in the Distribution panel shall be type tested and must comply with the requirements of applicable standards.

**Components:**

The Synchronization Panel shall be provided with components required for the satisfactory operation of the panel and of the electrical system and must comply with the requirements of applicable standards. Specifications of typical components which maybe included but not limited to are follows:

**i. Control module**

The synchronization control module monitors the generator and indicates operational status and fault conditions, automatically starting or stopping the engines smartly on demand load or fault conditions.

- a) Control module should have comprehensive load sharing capabilities with minimum configurable 12 inputs and 12 configurable outputs.
- b) It should have an ability to record the 500 minimum log events to facilitate easy maintenance.
- c) Control module should have an extensive number of fixed monitoring and metering and protection features are included as well as comprehensive communication and system expansion option.
- d) Module should have following key load share features:
  - Sequential set start.
  - Manual voltage/ frequency adjustment.
  - Automatic hour run balancing.
  - Dead bus sensing.
  - Bus failure detection.
  - Direct governor and AVR control.
  - Main (utility de-coupling test mode option.
  - It should have built-in reverse relay protection.
  - Flexibility to synchronies from Grid power
- e) RS485 remote communication ports should also be available with back lit LCD screen.
- f) Standard Features:
  - Voltage (L-L, L-N)
  - Current (Phase)
  - Average Volt, Amp, Frequency
  - kW, KVA, kVA (Average, Phase, %)
  - Power Factor (Average, Phase)
  - kW-hr, KVA-hr (total)
  - Generator stator and bearing temp (with optional module)
- g) Generator Protection:
  - Generator phase sequence
  - Over/Under voltage (27/59)
  - Over/Under frequency (81 O/U)
  - Reverse Power (kW) (32)
  - Reverse Reactive Power (KVA) (32RV)
  - Overcurrent (50/51)
- h) Engine Monitoring:
  - Coolant temperature
  - Oil pressure
  - Engine speed (RPM)





- Battery voltage
- Run hours
- Crank attempt and successful start counter
- Enhanced engine monitoring (with electronic engines)

i) Engine Protection

- Control switch not in auto (alarm)
- High coolant temp (alarm and shutdown)
- Low coolant temp (alarm)
- Low coolant level (alarm)
- High engine oil temp (alarm and shutdown)
- Low, high and weak battery voltage
- Over speed
- Over crank
- Low Oil Pressure

j) Control

- Run / Auto / Stop control
- Speed and voltage adjust
- Local and remote emergency stop
- Remote start/stop
- Cycle crank

k) Inputs & Outputs

- Two dedicated digital inputs
- Three analog inputs
- Six programmable digital inputs
- Eight relay out
- Two programmable digital outputs

l) Communications

- Primary and accessory CAN data links
- RS-485 annunciator data link
- Modbus RTU (RS-485 Half duplex)

ii. **Bus Bars**

The Bus bars shall be imported, tinned, made of 99.9% pure Copper high conductivity including accessories like, Fischer plates, nuts & bolts, mounting accessories etc. complete in all respects, electrolytic tin plated copper and shall be completely isolated and mechanically braced for the specified fault level. The identification of bus bars shall be by providing heat shrink color coded sleeves on complete bus bar lengths and these shall be red, yellow, and blue for phases and black for neutral. The earth bus bar shall be green.

The bus bars shall be for three phases, neutral and earth and shall be of appropriate size to meet the electrical and mechanical requirements of the system and must be suitable for the designed load of 6300A. The temperature rise shall not exceed 45oC at rated current.

Imported Copper certificate shall be submitted with bill of lading. Imported copper shall be checked prior to the installation at site.

iii. **Digital Multimeter and Analyzers**

All meters shall be flush mounting, Digital type with built-in selector switches. The front dimensions shall be 96 x 96 mm for meters.

The meters shall be of accuracy class 1.5 The ammeter shall be suitable for connection to 5 Amps secondary of current transformers or directly through shunt. The ammeters and voltmeters shall have measuring range as per the panel in which meters are installed.





**iv. Current Transformers**

Current transformers shall be provided having suitable transformation ratio. The current transformers shall be of suitable burden having accuracy class 1.0 The current transformers shall have 5 amps secondary.

**v. Motorized/Manual Changeover Switches**

Changeover switch must have three stable positions, unaffected by voltage fluctuations and vibrations, protecting loads from network disturbances. It must be capable of safe on-load switching for any type of load such that with its on-load transfer capabilities, it is not necessary to isolate loads prior to transfer.

**vi. Electronic Voltage Relay**

The voltage relay monitors the over voltage and the under voltage and the phase sequence L1, L2, L3 in an alternating three phase mains. Adjustment range +20% -20% of the nominal voltage.

**vii. Air-Circuit Breaker**

TP ACB with Motorized Spring Charge mechanism, Tripping coil, shunt trip coil, & adjustable UVT and Overload, ground fault, instantaneous, long & short time protection

**Other possible components:**

**viii. Shunt Trip**

- Under Voltage Trip
- Motor mechanism
- Synchronizing Module
- Battery Charger
- Dry Batteries
- Digital Voltmeter + VSS
- Digital Ammeter + ASS
- CT's
- 14- Pin Relay with Base
- Indication Lights R, Y, B
- DP MCB
- TP MCB
- Control Fuses with Base
- Emergency Stop
- Key Switch
- Push Reset
- Panel Socket
- Panel Light with limit switch
- Louver, Exhaust Fan with Thermostat
- 2.5mm Line Up Terminal

**Installation:**

All screws, nuts and bolts used for fixing the distribution board shall be galvanized. The Panel installation shall include connecting all incoming and outgoing cables. The cable entry in the boards shall be provided from top or bottom as required. All labor, equipment and tools required for complete installation and shall be provided by the Contractor. All outgoing and incoming cable connections shall be made, and special care shall be taken in fixing cable boxes and in cable connections to have no danger of leakage during operation. Earthing connections shall be made with the existing earthing pits of generators made by the previous contractor. The installation work must comply with the requirements of applicable standards

**Minimum Technical specifications of Synchronization Modules:**

The synch controller modules must have the following minimum features but not limited to:



1. Expandable for both single and multiple gen-sets operating in standby or parallel modes.
2. Detachable modular construction for a variety of extension modules
3. Built-in synchronizer and load sharer to allow an integrated solution for gen-sets in standby, island parallel or mains parallel. Native cooperation of at least 4 gen-sets.
4. Able to support standard ECU types with future versions compatibility.
5. Ethernet and RS485 for remote internet connectivity.
6. Ability to connect with touch screen type HMI and/or other displays.
7. Capable of auto start load sharing, multi generator load share, mains control and bus-tie breaker control without need for separate control/automation PLC-based system
8. Should be able to synchronize both electronic and non-electronic gensets.
9. Automatically control change over from mains (utility) to generator supply or run generator in synchronization with the main (utility) to provide no-break operation.
10. Support of engines with ECU (Electronic Control Unit)
11. Integrated genset solution and signal sharing via CAN bus or similar protocol
12. Genset performance log
13. Built-in PLC (no external automation system or PLC required)
14. Separate TFT display
15. Configurable soft keys
16. Trends
17. Plug and play
18. Synch module and bus-tie module of same family/series
19. The synchronization control module monitors the generator and indicates operational status and fault conditions, automatically starting or stopping the engines smartly on demand load or fault conditions.
20. The synchronization control module must be able to run 1 generator for emergency load in case of synch failure.
21. It must have monitoring system on Modbus or TCP/IP which can be displayed on simple desktop PC via software provided along with modules.
22. Control module should have an extensive number of fixed monitoring and metering and protection features included as well as comprehensive communication and system expansion option.
23. Automatic synchronizing and power control (via speed governor or ECU)
24. Baseload, Import / Export, Temp by Power
25. Peak shaving
26. Voltage and PF control (AVR)
27. Generator measurement: U, I, Hz, kW, KVA, PF, kWh, kVAhr
28. Mains measurement: U, I, Hz, kW, KVA, PF
29. Inputs and outputs configurable for various customer needs
30. 1× RS232 / 2× RS485 / RJ-45 interface with Modbus support
31. Event-based history with customer-selectable list of stored values; RTC; statistic values
32. Interface to remote display units
33. USB slave interface

The synchronization module must comply with the requirements of applicable standards.

#### **Proposed method of Performing Works:**

The contractor is required to submit a narrative outlining the method of performing the Works. The narrative should indicate in detail and include but not limited to:

- i. The sequence and methods in which he proposes to carry out the Works, including the number of shifts per day and hours per shift, he expects to work.
- ii. A list of all major items of constructional and erection plant, tools and vehicles proposed to be used in carrying out the Works at Site, including number of each kind, make, type, capacity of all equipment, working condition, which shall be deployed by him for Electrical Work and Erection, Testing and Commissioning of the Works, in sufficient detail to demonstrate fully that the equipment and installation will meet all the requirements of the Technical Provisions.
- iii. Design drawings and operation scenarios of Synchronization panels and



- iv. components which he proposes to use during the work.
- iv. The procedure for installation of equipment and transportation of equipment and materials to the site.
- v. Organization chart indicating head office & field office personnel involved in management, supervision, and engineering of the Works to be done under the Contract.
- vi. The contractor shall list in this Schedule the key personnel he will employ from Head office and from Site office to direct and execute the Works, together with their names, qualifications, experience, positions held and their nationalities.

The method must comply with the requirements of applicable standards.

**Testing:**

**1. Pre-Energization Third-party Inspection Certificate:**

- i. Contractor will submit a list of at least 5 reputable, recognized third-party vendors engaged in supply, installation, testing & commissioning of Diesel Generators, Switchgears, and Synchronization panels & modules for last 10 years.
- ii. Client will choose a vendor from the contractor provided list. However, client has the right to include any other vendor name in the above list and choose other than the provided list, if deemed necessary.
- iii. The third-party vendor will thoroughly inspect & check all the works performed by the contractor as mentioned in this contract and will provide satisfactory certificate after performing the required tests as well in compliance with the requirements of applicable standards.
- iv. Third-party inspection report must cover all the technical details of design & system compatibility and material quality after performing the required tests in compliance with the applicable standards.
- v. The system will be energized after the obtaining of the above satisfactory certificate and the third-party vendor will be present at the time of energization.

**2. Pre-energization Check:**

Prior to energization, check all new and reused existing branch circuit cable, components, and wires for continuity of circuitry and for short circuits. Correct malfunction when detected.

**3. Voltage and Current Values:**

The voltage and current in each circuit shall be measured and recorded after all connections have been made and the circuit is under load.

**4. Earth Resistance Test:**

Earth resistance tests shall be made by the Contractor on the existing earthing system of Generators made by the previous contractor, separating and reconnecting each earth connection as required in compliance with the applicable standards.

**5. Submittals:**

Contractor shall furnish all instruments and personnel required for tests. Submit copies of certified test results and satisfactory certificates for review. Test reports shall include circuit tested, test type, date and time of test, test results, relative humidity, temperature, and weather conditions etc.

**Final Submissions:**

- 1. Contractor will submit operation, service & instruction manuals, drawings and schematics in hardcopy and softcopy form detailing operating procedure and showing system failure scenarios.
- 2. Manufacturer manuals of Generators and Synchronization panels & modules.
- 3. Single line diagram and layout of the complete power generation system.
- 4. Programming manuals, connection diagrams of Generators and Synchronization panels & modules showing & detailing operational & fault scenarios.
- 5. Copper certificate, breaker certificate, synch modules certificate and their catalogues, technical specifications, and company manuals.
- 6. As-built drawings showing all details including bus-bars arrangement and ratings/specifications.





	7. Shop drawings, Isometric & disposed view of panels. 8. Technical catalogues of synchronization modules. 9. Component list of Synchronization panel. 10. Programming manuals & control drawings of synch panels and modules. 11. Testing, Commissioning, Monitoring, Installation & Completion report with Third Party Verification. 12. Earthing testing report of the system. 13. Any other necessary drawings, documents, manuals etc. 14. Magar testing report of the system.  Note: UCC has to provide Operation & Maintenance during "Maintenance Period" of 24 months after completion of job in all respects, including manpower deployment with existing manpower of the Institute and providing them all operational trainings of the system and replacement or repairing of spare parts and consumables along with periodic servicing during maintenance period as per manufacturer operational manuals of equipment and required applicable standards all necessary drawings & its software access after the supply, Installation and commissioning, at no extra cost.
	<div style="text-align: right;"><b>TOTAL AMOUNT</b></div> <div style="text-align: right;"><b><u>229,105,000/-</u></b></div>
	<b>Rupee Two Hundred Twenty-Nine Million One Hundred Five 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. 229,105,000/-** 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 One Month. 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.

(If the Supplier fails to deliver any or all of the Goods or to perform the Services within the period(s) specified in the Contract, the Procuring agency shall, without prejudice to its other remedies under the Contract, deduct from the Contract Price, as liquidated damages, a sum equivalent to the percentage specified in Bidding Data of the delivered price of the delayed Goods or unperformed Services for each week or part thereof of delay until actual delivery or performance, up to a maximum deduction of the

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- percentage specified in Bidding Data. Once the maximum is reached, the Procuring agency may consider termination of the Contract.)
6. **PLACE OF DELIVERY:** Store Department of SMBB Institute of Trauma, Karachi, and satellite trauma centers in different locations of Sindh Province.
  7. **DISPATCH INSTRUCTION:** Free delivery to the Consignee i.e. SMBB Institute of Trauma, Karachi, and satellite trauma centers in different locations of Sindh Province.
  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:** @05% Security Deposit (Performance Security) of **Rs. 11,455,250/-** 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)** and the paid receipt and agreement should have to be submitted to the Procurement department (SMBB-IT), Karachi.
  16. **Contract agreement valid for 1 year from the date of signing.** Orders will be placed as per requirement after receiving demand from the concern department of Shaheed Mohtarma Benazir Bhutto Institute of Trauma, Karachi, and satellite trauma centers in different locations of Sindh Province.
  17. If supplied goods are declared sub-standard, adulterated, Spurious, counterfeit, Misbranded or contaminated the Manufacturer and their Distributor are equally responsible and are bound to supply additional quantity of whole batch free of cost. (the case will be dealt in accordance to the Drug Act, 1976) (Where applicable).
  18. **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**).

During the course of consumption, if any item is found to have short shelf life, SMBBIT Store management intimate before 6 months to bidder then after intimation to the bidder(s), it would be the responsibility of the bidder(s)/firm(s), to replace it with fresh stock of longer shelf life. However, if the item becomes expired due to non-replacement by the bidder(s)/firm(s), well in time, then the firm will provide the fresh stock





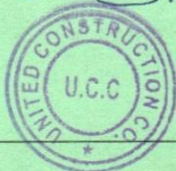
against the expired one, free of cost. The expired stock would be destroyed by the SMBBIT committee constituted for that purposes. (Where Applicable)

19. 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

*U.C.C.*



(Seal)

Signature of the Purchaser

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

(Seal)

Signed, Sealed and Delivered in the presence of:

Witness:

*[Signature]*

(Name, Title and Address)

SUED MUHAMMAD  
HONDA IN HODON  
ADMIN OFFICER  
A-15, City villas, Sdh-33,  
Sec 30/A, Gulzame-e-Jinn  
Karachi

Witness:

*[Signature]*

(Name, Title and Address)

MANAGER  
SUPPLY CHAIN MANAGEMENT  
SMBB Institute of Trauma, Karachi





SHAHEED MOHTARMA BENAZIR BHUTTO  
INSTITUTE OF TRAUMA, KARACHI

No. PROC/SMBBIT/2023-24/1264

Dated: May 07, 2024

LETTER OF ACCEPTANCE

M/s. BENCHMARK CORPORATION,  
Suit # 19 & 21, Barkat Lodge, Arambagh Road,  
Karachi, Pakistan

Subject: LETTER OF ACCEPTANCE FOR PROCUREMENT OF GENERAL ITEMS MACHINERY PARTS & PLANT & MACHINERY

NIT NO: PROC/SMBBIT/2023-24/1131 (Dated: 22-02-2024),

Ref no: PROC/SMBBIT/(OTHERS-02)/2023-24

- A. Notice Inviting Tender issued in respect of "PROCUREMENT OF GENERAL ITEMS MACHINERY PARTS & PLANT & MACHINERY" to be supplied during the Financial Year 2023-24.
- B. The said Bid (Single Stage – One Envelope Procedure Basis) submitted on **14-March-2024**, by your firm.
- C. Meeting of Procurement Committee of SMBB Institute of Trauma, Karachi was held on **14-March-2024**, to open tender **PROCUREMENT OF GENERAL ITEMS MACHINERY PARTS & PLANT & MACHINERY** 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 No.	Name of Item	Tentative Qty	U.O.M	Quoted Product Description / Make / Brand Name	Country of Origin	Offered Price	Total Price
		SECTION A: GENERAL ITEMS						
1	4	MS Heavy Duty Storage Racks required for Warehouse MS racks size 108" x 24" x 84" with 3 adjustable pallets maximum load capacity 1000kg (same as existing as warehouse racks or better)	80	Racks	-	-	140,000.00	11,200,000
Total Amount								11,200,000

Amount in word: Rupees Eleven Million Two Hundred 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: @05% Security Deposit (Performance Security) of Rs. 560,000/-** 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)** and the paid receipt and agreement should have to be submitted to the Procurement department (SMBBIT-IT), Karachi.
- 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.

Copy to:-

- The Director (A&F) SPPRA with reference to SPPRA PPMS ID **T00518-23-0005** & Evaluation Report # **BE00518-23-0005-2**
- Accounts & Finance Department, SMBB Institute of Trauma.

EXECUTIVE DIRECTOR / D.D.O  
SMBB INSTITUTE OF TRAUMA, KARACHI

EXECUTIVE DIRECTOR / D.D.O  
SMBB INSTITUTE OF TRAUMA, KARACHI





SHAHEED MOHTARMA BENAZIR BHUTTO  
INSTITUTE OF TRAUMA, KARACHI

No. PROC/SMBBIT/2023-24/1322

Dated: May 21, 2024

AWARD OF TENDER (A.O.T)

M/s. BENCHMARK CORPORATION,  
Suit # 19 & 21, Barkat Lodge, Arambagh Road,  
Karachi, Pakistan

Sub: PROCUREMENT OF GENERAL ITEMS ON FRAMEWORK CONTRACT BASIS (SPPRA RULE 15(B))

Reference to our subject tender Dated: 14-03-2024 and letter of Acceptance Ref # PROC/SMBBIT/2023-24/1264, Dated: 07-05-2024; 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 No.	Name of Item	Tentative Qty	U.O.M	Quoted Product Description / Make / Brand Name	Country of Origin	Offered Price	Total Price
SECTION A: GENERAL ITEMS								
1	4	MS Heavy Duty Storage Racks required for Warehouse MS racks size 108" x 24" x 84" with 3 adjustable pallets maximum load capacity 1000kg (same as existing as warehouse racks or better)	80	Racks	-	-	140,000.00	11,200,000
Total Amount								11,200,000
Amount in word: Rupees Eleven Million Two Hundred Thousand Only.								
2	Date of Delivery: As per Supply Order.							
3	Place of Delivery: SMBB Institute of Trauma, Karachi.							
4	Dispatch Instruction: Free Delivery to the Consignee i.e. SMBB Institute of Trauma, Karachi.							
5	Name and Address of the Consignee: EXECUTIVE DIRECTOR - SMBB Institute of Trauma, Karachi.							
6	PARTICULAR GOVERNING SUPPLY:							
6.1	As per policy given in the bid documents.							
7	INSPECTION :							
7.1	Inspection Authority: Nominated Inspection Committee of SMBB-IT, Concerned Department of Supplied Items.							
8	PAYMENT : Through office of: 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	PART SUPPLY / PART PAYMENT: 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	SPECIAL INSTRUCTION:							
10	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	The stores if found damaged shall be replaced by supplier free of cost.							
10	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	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).							
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 T00518-23-0005 & Evaluation Report # BE00518-23-0005-2
- Store Incharge, SMBB Institute of Trauma, Karachi
- Accounts & Finance Department, SMBB Institute of Trauma, Karachi

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

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





## CONTRACT AGREEMENT

ISSUED TO WITH ADDRESS FOR

THROUGH WITNESSED

FOR THE PRO

VALUE RS..... \$1.50

OFFEROR'S SIGNATURE

60961

IO-PROC/SMBBIT/2023-24/1131 (Dated:22-02-2024),

**Ref no: PROC/SMBBIT/(OTHERS-02)/2023-24**

This Contract Agreement (hereinafter called the Agreement) made on 18<sup>th</sup> day of may - 2024.

**M/s. BENCHMARK CORPORATION**

AND

(Hereinafter Called the Purchaser)

S.#	Item No.	Name of Item	Tentative Qty.	U.O.M	Quoted Product Description / Make / Brand Name	Country of Origin	Offered Price	Total Price
		SECTION A:						
		GENERAL ITEMS						

Page 1 of 4





S.#	Item No.	Name of Item	Tentative Qty.	U.O.M	Quoted Product Description / Make / Brand Name	Country of Origin	Offered Price	Total Price
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<b>Total Amount</b>								<b>11,200,000</b>
<b>Amount in word: Rupees Eleven Million Two Hundred Thousand Only.</b>								

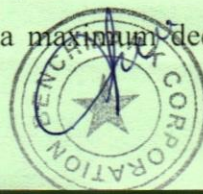
Whereas the purchaser is desirous that certain goods should be provided by supplier and whereas the supplier has agreed to provide and quote the rate which has been accepted by purchaser for supply of above mentioned goods against the sum of **Rs. 11,200,000/-** hereinafter called "The Contract Price".

Now this agreement witnesseth as follows:

- 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.
- 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:
  - Purchase order(s)/ Letter of Acceptance where applicable.
  - The completed Form of Bid along with Schedules to Bid.
  - Condition of Contract & Contract Data
  - The priced Scheduled of prices
  - The specifications
- 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.
- 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.
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(If the Supplier fails to deliver any or all of the Goods or to perform the Services within the period(s) specified in the Contract, the Procuring agency shall, without prejudice to its other remedies under the Contract, deduct from the Contract Price, as liquidated damages, a sum equivalent to the percentage specified in Bidding Data of the delivered price of the delayed Goods or unperformed Services for each week or part thereof of delay until actual delivery or performance, up to a maximum deduction of the

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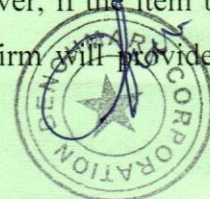




percentage specified in Bidding Data. Once the maximum is reached, the Procuring agency may consider termination of the Contract.)

6. **PLACE OF DELIVERY:** Store Department of SMBB Institute of Trauma, Karachi, and satellite trauma centers in different locations of Sindh Province.
7. **DISPATCH INSTRUCTION:** Free delivery to the Consignee i.e. SMBB Institute of Trauma, Karachi, and satellite trauma centers in different locations of Sindh Province.
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12. **PART SUPPLY / PART PAYMENT:** Allowed.
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17. If supplied goods are declared sub-standard, adulterated, Spurious, counterfeit, Misbranded or contaminated the Manufacturer and their Distributor are equally responsible and are bound to supply additional quantity of whole batch free of cost. (the case will be dealt in accordance to the Drug Act, 1976) (Where applicable).
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against the expired one, free of cost. The expired stock would be destroyed by the SMBBIT committee constituted for that purposes. (Where Applicable)

19. 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)

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

(Seal)

Signed, Sealed and Delivered in the presence of:

Witness:

Witness:

*Imroz Ali*

(Name, Title and Address)

*[Signature]*

(Name, Title and Address)

MANAGER  
SUPPLY CHAIN MANAGEMENT  
SMBB Institute of Trauma, Karachi





SHAHEED MOHTARMA BENAZIR BHUTTO  
INSTITUTE OF TRAUMA, KARACHI

No. PROC/SMBBIT/2023-24/1265

Dated: May 07, 2024

LETTER OF ACCEPTANCE

M/s. PARRAS ENTERPRISES,  
Office # S-62, 2nd Floor, Glass Tower  
Karachi, Pakistan

Subject: LETTER OF ACCEPTANCE FOR PROCUREMENT OF GENERAL ITEMS MACHINERY PARTS & PLANT & MACHINERY

NIT NO: PROC/SMBBIT/2023-24/1131 (Dated: 22-02-2024),

Ref no: PROC/SMBBIT/(OTHERS-02)/2023-24

- A. Notice Inviting Tender issued in respect of "PROCUREMENT OF GENERAL ITEMS MACHINERY PARTS & PLANT & MACHINERY" to be supplied during the Financial Year 2023-24.
- B. The said Bid (Single Stage – One Envelope Procedure Basis) submitted on **14-March-2024**, by your firm.
- C. Meeting of Procurement Committee of SMBB Institute of Trauma, Karachi was held on **14-March-2024**, to open tender **PROCUREMENT OF GENERAL ITEMS MACHINERY PARTS & PLANT & MACHINERY** 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 No.	Name of Item	Tentative Qty	U.O.M	Quoted Product Description / Make / Brand Name	Country of Origin	Offered Price	Total Price
		SECTION A: GENERAL ITEMS						
1	8	Lead Apron with Thyroid shield (Best Quality)	20	Sets	Hi-Protect	-	60,000.00	1,200,000
2	31	Laryngoscope Bulb	50	Pcs.	Hi-Protect	-	1,200.00	60,000
3	32	Fiber Optic Laryngoscope Bulb	50	Pcs.	Hi-Protect	-	1,725.00	86,250
Total Amount								1,346,250

Amount in word: Rupees One Million Three Hundred Forty-Six Thousand Two Hundred Fifty 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: @05% Security Deposit (Performance Security) of Rs. 67,313/-** 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)** and the paid receipt and agreement should have to be submitted to the Procurement department (SMBB-IT), Karachi.
- 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.

Copy to:-

- The Director (A&F) SPPRA with reference to SPPRA PPMS ID **T00518-23-0005** & Evaluation Report # **BE00518-23-0005-2**
- Accounts & Finance Department, SMBB Institute of Trauma.

EXECUTIVE DIRECTOR / D.D.O  
SMBB INSTITUTE OF TRAUMA, KARACHI

EXECUTIVE DIRECTOR / D.D.O  
SMBB INSTITUTE OF TRAUMA, KARACHI





SHAHEED MOHTARMA BENAZIR BHUTTO  
INSTITUTE OF TRAUMA, KARACHI

No. PROC/SMBBIT/2023-24/1323

Dated: May 21, 2024

AWARD OF TENDER (A.O.T)

M/s. PARRAS ENTERPRISES,  
Office # S-62, 2nd Floor, Glass Tower  
Karachi, Pakistan

Sub: PROCUREMENT OF GENERAL ITEMS ON FRAMEWORK CONTRACT BASIS (SPPRA RULE 15(B))

1	Reference to our subject tender Dated: 14-03-2024 and letter of Acceptance Ref # PROC/SMBBIT/2023-24/1265, Dated: 07-05-2024; 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 No.	Name of Item	Tentative Qty	U.O.M	Quoted Product Description / Make / Brand Name	Country of Origin	Offered Price	Total Price
		SECTION A: GENERAL ITEMS						
1	8	Lead Apron with Thyroid shield (Best Quality)	20	Sets	Hi-Protect	-	60,000.00	1,200,000
2	31	Laryngoscope Bulb	50	Pcs.	Hi-Protect	-	1,200.00	60,000
3	32	Fiber Optic Laryngoscope Bulb	50	Pcs.	Hi-Protect	-	1,725.00	86,250
Total Amount								1,346,250
Amount in word: Rupees One Million Three Hundred Forty-Six Thousand Two Hundred Fifty Only.								
2	Date of Delivery: As per Supply Order.							
3	Place of Delivery: SMBB Institute of Trauma, Karachi.							
4	Dispatch Instruction: Free Delivery to the Consignee i.e. SMBB Institute of Trauma, Karachi.							
5	Name and Address of the Consignee: EXECUTIVE DIRECTOR - SMBB Institute of Trauma, Karachi.							
6	PARTICULAR GOVERNING SUPPLY:							
6.1	As per policy given in the bid documents.							
7	INSPECTION :							
7.1	Inspection Authority: Nominated Inspection Committee of SMBB-IT, Concerned Department of Supplied Items.							
8	PAYMENT : Through office of: 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	PART SUPPLY / PART PAYMENT: 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	SPECIAL INSTRUCTION:							
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	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).							
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 T00518-23-0005 & Evaluation Report # BE00518-23-0005-2
- Store Incharge, SMBB Institute of Trauma, Karachi
- Accounts & Finance Department, SMBB Institute of Trauma, Karachi

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

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





SYED RIAZ MUSTAFA RIZV,  
Stamp Vendor Licence No. 59  
S.C. ST. Urdu Mehal, Nazimabad, Karachi.  
S No. .... Dated .....

09 MAY 2024

**CONTRACT AGREEMENT**

Issued To With Address .....

Through With Address .....

Purpose **FOR THE PROCUREMENT OF GENERAL ITEMS MACHINERY PARTS & PLANT & MACHINERY**

Value Rs. ....

Stamp Vendor's Signature .....

**NIT NO: PROC/SMBBIT/2023-24/1131 (Dated:22-02-2024),****Ref no: PROC/SMBBIT/(OTHERS-02)/2023-24****LETTER OF ACCEPTANCE NO: PROC/SMBBIT/2023-24/1265 DATED: 07 - May - 2024**This Contract Agreement (hereinafter called the Agreement) made on 18<sup>th</sup> day of May - 2024.

BETWEEN

**M/s. PARRAS ENTERPRISES**

A Supplier, having its office at Office # S-62, 2nd Floor, Glass Tower, Karachi, Pakistan (Hereinafter mentioned as Supplier), which expression shall be deemed to mean and include its successors-in-interest and permitted assigns;

AND

**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 ON FRAMEWORK CONTRACT BASIS (SPPRA RULE 15(B))" remedying of any defect therein.

S.#	Item No.	Name of Item	Tentative Qty	U.O.M	Quoted Product Description / Make / Brand Name	Country of Origin	Offered Price	Total Price
		SECTION A: GENERAL ITEMS						
1	8	Lead Apron with Thyroid shield (Best Quality)	20	Sets	Hi-Protect		60,000.00	1,200,000



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



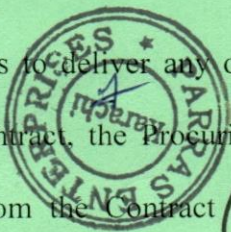
S.#	Item No.	Name of Item	Tentative Qty	U.O.M	Quoted Product Description / Make / Brand Name	Country of Origin	Offered Price	Total Price
2	31	Laryngoscope Bulb	50	Pcs.	Hi-Protect	-	1,200.00	60,000
3	32	Fiber Optic Laryngoscope Bulb	50	Pcs.	Hi-Protect	-	1,725.00	86,250
Total Amount								1,346,250
Amount in word: Rupees One Million Three Hundred Forty-Six Thousand Two Hundred Fifty Only.								

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. 1,346,250/- 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 One Month. 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.

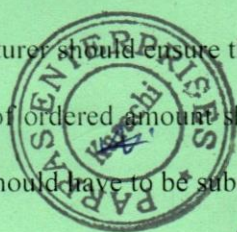
(If the Supplier fails to deliver any or all of the Goods or to perform the Services within the period(s) specified in the Contract, the Procuring agency shall, without prejudice to its other remedies under the Contract, deduct from the Contract Price, as liquidated damages, a sum equivalent to the percentage





specified in Bidding Data of the delivered price of the delayed Goods or unperformed Services for each week or part thereof of delay until actual delivery or performance, up to a maximum deduction of the percentage specified in Bidding Data. Once the maximum is reached, the Procuring agency may consider termination of the Contract.)

6. **PLACE OF DELIVERY:** Store Department of SMBB Institute of Trauma, Karachi, and satellite trauma centers in different locations of Sindh Province.
7. **DISPATCH INSTRUCTION:** Free delivery to the Consignee i.e. SMBB Institute of Trauma, Karachi, and satellite trauma centers in different locations of Sindh Province.
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:** @05% Security Deposit (Performance Security) of **Rs. 67,313/-** 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)** and the paid receipt and agreement should have to be submitted to the Procurement department (SMBB-IT), Karachi.





16. **Contract agreement valid for 1 year from the date of signing.** Orders will be placed as per requirement after receiving demand from the concern department of Shaheed Mohtarma Benazir Bhutto Institute of Trauma, Karachi, and satellite trauma centers in different locations of Sindh Province.

17. If supplied goods are declared sub-standard, adulterated, Spurious, counterfeit, Misbranded or contaminated the Manufacturer and their Distributor are equally responsible and are bound to supply additional quantity of whole batch free of cost. (the case will be dealt in accordance to the Drug Act, 1976) (Where applicable).

18. **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**).


During the course of consumption, if any item is found to have short shelf life, SMBBIT Store management intimate before 6 months to bidder then after intimation to the bidder(s), it would be the responsibility of the bidder(s)/firm(s), to replace it with fresh stock of longer shelf life. However, if the item becomes expired due to non-replacement by the bidder(s)/firm(s), well in time, then the firm will provide the fresh stock against the expired one, free of cost. The expired stock would be destroyed by the SMBBIT committee constituted for that purposes. (Where Applicable)

19. 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.

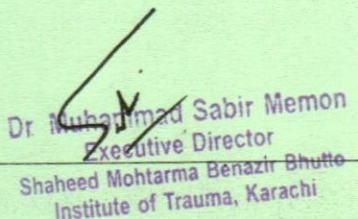
Signature of the Supplier

(Seal)



Signature of the Purchaser

(Seal)



Signed, Sealed and Delivered in the presence of:

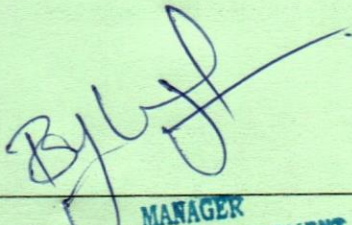
Witness:

(Name, Title and Address)



Witness:

(Name, Title and Address)



MANAGER  
SUPPLY CHAIN MANAGEMENT  
SMBBIT Institute of Trauma, Karachi