

STANDARD BIDDING DOCUMENT (SBD)



**GOVERNMENT OF SINDH
SHAHEED MOHTARMA BENAZIR BHUTTO
INSTITUTE OF TRAUMA (SMBBIT)**

TENDER REFERENCE# PROC/SMBBIT/(OTHERS-HVAC)/2020-21

**“PROCUREMENT OF HVAC CONSUMABLES, FILTERS
AND GENERAL ITEMS ON FRAMEWORK CONTRACT
BASIS”**

AT

SMBB INSTITUTE OF TRAUMA, KARACHI

ROUGH ESTIMATION COST= RS. 40(M)

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BIDDING DATA

Procuring Agency	:	SMBB Institute of Trauma
Address	:	Chand Bibi Road, Karachi
Bid Validity	:	90 Days, As per SPPRA Rule 2010 (amended till date)
Amount of Bid Security	:	2% of Total Bid Quoted Price
Last date of Selling of Bid	:	Mentioned in NIT
Date of Submission of Bid	:	Mentioned in NIT
Place for Submission	:	Mentioned in NIT
Date of Opening of Bid	:	Mentioned in NIT
Place of Opening	:	Mentioned in NIT
Performance Security	:	2% of the Total Contract Value
Language of Bid	:	English
Currency of Bid	:	PKR
Bidding Procedure	:	Single Stage One Envelope Procedure 46(1)
Advance Payment	:	No Advance Payment will be allowed
Period of Completion	:	Financial Year 2020-21
Liquidity Damages	:	0.03% of the bid price per day after the period of Completion up to 10% maximum depends upon the damages done due to non-supply.
Inspection Authority	:	Nominated Inspection Committee
Place of Delivery	:	Store of SMBB Institute of Trauma

INSTRUCTIONS TO BIDDERS

1. **Shaheed Mohtarma Benazir Bhutto Institute of Trauma** invites sealed bids on **Single Stage-One Envelope** Procedure as per clause **46(1)** Sindh Public Procurement Rules 2010, Amended till date from Manufacturers / Importers / Sole Agents / Distributors for **Procurement of HVAC Consumables, Filters and General Items on Framework Contract Basis. Tender Reference #- PROC/SMBBIT/(OTHERS-HVAC)/2020-21.**
2. Bidders are required to check that Tender Documents issued to them are complete in all respects as per table of content.
3. Bidders should examine carefully the table of content. They should visit and inspect the site at their own expense, responsibility and obtain all necessary information prior to submitting the tender. Any detail/specification missing in the document should be obtained from **Planning & Procurement Department** before bidding. Once the tender is submitted, it will be assumed that no further clarification was required.
4. Tender Fee in shape of pay order in favor of **Shaheed Mohtarma Benazir Bhutto Institute of Trauma** must be attached; else the offer will be rejected.
5. Bidder will attach **BID SECURITY** (as per amount mentioned under Bidding Data) in shape of pay order issued from any scheduled Bank of Pakistan in favor of **Shaheed Mohtarma Benazir Bhutto Institute of Trauma** in the financial proposal.
6. The original bid shall be typed or written in indelible ink by the bidder or person duly authorized. The person or persons signing the bid shall initial all pages of the bid. The name and designation of each person signing must be mentioned below the signature.
7. The Bidder shall indicate on the appropriate Price Schedule (in PKR) the units (where applicable) and total bid price of the goods / services it proposes to supply / execute under the contract.
8. No bidder shall be allowed to alter or modify his bid after the bids have been opened. However, the Procuring Agency may seek and accept clarification to the bids that do not change substances of the bids.
9. The Procuring Agency may reject all or any bid or proposal at any time prior to the acceptance of a bid or proposal. Subject to relevant provision of SPP Rules, 2010 (Amended till Date). The Procuring Agency upon request communicate to bidder who submitted a bid or proposal, the grounds for its rejection of all bids or proposal, but is not required to justify those grounds.
10. The quoted rates should include all costs of whatsoever description and expenses necessary for the whole work together with all risks, taxes, liabilities and obligations, specific or implied, in the Tender Documents. Arithmetical errors, if any shall be corrected and Tender price amended accordingly.
11. No unauthorized alteration may be made in the Tender documents. If any such alteration is made, tender may be liable for rejection.

12. Clarification, revision, addition or deletion, in the tender documents may be made by the authority before the submission and opening of Tender in the form of Addendum/Corrigendum. This will be made only by formal Addendum/ Corrigendum issued by the concerned authority and will become part of the contract documents. Each Addendum shall be signed by the Vendor and returned with other Tender documents.
13. The vendor has to quote only one rate for each work as per tender specifications. Hand written tenders or any over writing, cutting, should be signed.
14. The entire Tender Documents, listed duly priced, signed & stamped on each page and completed must reach at designated place in due time and dates as defined in the Bidding Data of the Tender.
15. Contractor who wins the tender will be required to enter into a Contract Agreement as defined in the Form of Agreement.
16. No bidder shall contact the Procuring agency on any matter relating to its bid, from the time of the bid opening to the time the contract is awarded. If the Bidder wishes to bring additional information to the notice of the Procuring agency, it should do so in writing.
17. The bid security will be forfeited to the Government, if the bidder withdraws his bid after opening and before the expiry of the bid validity period or fails to sign the contract in stipulated time if the bid is accepted.
18. Conditional tender and tender without bid security shall not be considered.
19. GST / Income Tax Certificate must be accompanied with tender.
20. Bids shall remain valid for a period of 90 days after the date of bid opening and same may be extended in terms of Rule 38 (2) (3) (4) of SPPRA Rules.
21. Bids submitted late due to any reason what so ever, shall not be considered and returned unopened to the bidder or his authorized representative.
22. Bid / offer will be evaluated as per criteria and the bid's terms & conditions.
23. Bid should be dropped at Planning & Procurement Office, **13th Floor, SMBB Institute of Trauma, Karachi** by mail or by hand in due course of time and the same will be opened at Seminar Hall, **12th Floor, SMBB Institute of Trauma, Karachi**.
24. Registration from Sindh Revenue Board is not required in procurement of Goods.

TERMS & CONDITIONS OF TENDER

- a) SMBB Institute of Trauma, Karachi invites sealed bids on **Single Stage One Envelope Procedure** as per clause 46(1) of SPP Rules 2010 (Amended till date) from Interested Bidders for **“Procurement of HVAC Consumables, Filters and General Items on Framework Contract Basis”**
- b) **PERFORMANCE SECURITY:** The successful bidders will have to deposit the requisite Performance Security Bond in the shape of a Pay Order / Demand Draft or Bank Guarantee as per amount mentioned under Bidding Data in favor of **Shaheed Mohtarma Benazir Bhutto Institute of Trauma**.
- c) Bid should be inclusive of all Government taxes (if applicable) and the same will be paid by the Contractor except withholding tax.
- d) Stamp duty should be placed on contract agreement (as per the govt. approved rate) on stamp paper of value (Rs.100).
- e) The firm will be responsible for **Supply of HVAC Consumables, Filters and General Items on Framework Contract Basis** at consignee address. (SMBB Institute of Trauma). If it fails the Performance Security will be forfeited.
- f) Procurement Committee shall disqualify a contractor, whether pre-qualified or not, if it finds at any time, that the information submitted by bidder concerning his qualification and professional, technical, financial, legal, or managerial competence as contractor was false and materially inaccurate or incomplete at any stage.
- g) The Procuring agency reserves the right at the time of contract award to increase or decrease, the items / quantities of goods and services originally specified in the Schedule of Requirements without any change in unit price or other terms and conditions.
- h) Arithmetical errors will be rectified on the following basis. If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail, and the total price shall be corrected. If the bidder does not accept the correction of the errors, its bid will be rejected, and its bid security may be forfeited.
- i) 20% of the due Sindh Sales Tax (if applicable) will be deducted from the bill of the Contractors / Suppliers while remaining 80% will be deposited by the Contractors / Suppliers themselves.
- j) Prices quoted shall remain valid up to 30th June 2021.

- k) No tender will be entertained without Bid Security which will be forfeited to Government Treasury, in case of non-submission of Performance security within seven (7) days of receipt of letter of Acceptance.
- l) **Quantities of tender items are on estimated basis and could vary according to the amount sanctioned and released as per discretion of Competent Authority.**
- m) All manufactured and other items should be used in the work in accordance with the instructions, specifications in the Tender Document and also in accordance with generally accepted norms of good workmanship.
- n) The Bidder shall sign and stamp the Integrity Pact provided at Bid in the Bidding Document for all Provincial Government procurement contracts. Failure to sign such Integrity Pact shall make the bidder non-responsive.
- o) 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.
- p) **Demanded quantity of items are based on the actual consumption of the Institute in case of decreased consumption due to any reason, the supplier shall be bound to replace the stock before six month period of expiry date of the stock.**

I / We agree to above mentioned terms & conditions:

Name of Contractor _____ Signature _____

CNIC # _____ (Copy must be attached.)

Full Address _____

Rubber Stamp _____

CRITERIA FOR EVALUATION OF BID

(Bidders are required to submit following documents in mentioned sequence)

Technical Evaluation Criteria (Mandatory)			
S.#	List of Documents	Yes	No
1.	Compliance of Terms & Conditions, Instructions mentioned in the SBD. (Must submit the entire STANDARD BIDDING DOCUMENTS , duly signed & stamped on each page with Technical Proposal)		
2.	Relevant Experience with documentary proof (Last Three Years) Attach Supply/Purchase Order/Award of Contract/Contract Agreement		
3.	Registration with Income Tax – NTN (Attach Valid Certificate)		
4.	Copy of Professional Tax 2020-21 (Attach Valid Certificate)		
5.	a) General Sales Tax (Mandatory) b) Sindh Sales Tax (if applicable) / Sindh Board of Revenue (Registration is not required in procurement of Goods)		
6.	Recent Bank Certificate / Bank Statement regarding financial soundness of the firm to do business up till PKR 30 Million or more.		
7.	Submission of undertaking on legal valid and attested stamp paper that the firm is not blacklisted and litigated by any institute of Federal, Provincial Government or any Department / Agency / Organization / Autonomous body or Private Sector Organization anywhere in Pakistan.(Undertaking should be attached as per sample Table of Content Point # 11)		
8.	Bidder already providing services at SMBBIT should obtain & attach a satisfactory performance certificate from competent authority of SMBB Institute of Trauma (for the financial year in which the bidder last provided its services).		
9.	Pay order / Bank Draft of Bid security should be attached along with bidding document.		

NOTE:

- The offer will not be entertained if the required documents are not found attached.**
- All Items will be procured on approved sample basis, Bidders will provide samples of all the items quoted for technical assessment, Brochures / literature should also be attached where applicable (All sample Should be labeled with Item Number mentioned on it); If the bidder fails to provide samples of any items quoted, those items will be rejected.**
- Bidder should take their unapproved samples within 30 days after the BER announcement; Institute will not be responsible for any claim made after 30 days.**
- The technical evaluation carried out by the Procurement Committee of SMBBIT, Karachi will be final, which will be assessed on technical aspect.
- Authorization / Distributors Certificates from Manufacturer. (Where Applicable).
- Financial proposal must be submitted on company letter head duly signed / stamped/ type in figure and words of the total amount; else the offer would be rejected.
- Specifications approved by the Consultant(s) in the relevant specialty will be considered by the Procurement Committee. (If applicable).

**SCHEDULE OF REQUIREMENT/ BILL OF QUANTITIES (BOQ) OF
SHAHEED MOHTARMA BENAZIR BHUTTO INSTITUTE OF
TRAUMA KARACHI (SMBBIT)**

**“PROCUREMENT OF HVAC CONSUMABLES, FILTERS AND
GENERAL ITEMS ON FRAMEWORK CONTRACT BASIS”
TENDER REFERENCE# PROC/SMBBIT/(OTHERS-HVAC) 2020-21**

S.#	Item #	Item Description	Size	Tentative Qty.	U.O.M	Unit Price	Total Amount
SECTION 1: SPLIT AC 02 TON							
1	1	Indoor Evaporator Coil	-	4	Coil		
2	2	Indoor Blower	-	4	Pcs.		
3	3	Outdoor Condenser Coil	-	4	Coil		
SECTION 2: FLOOR STANDING AC 2 TON							
4	1	Indoor Evaporator Coil	-	2	Coil		
5	2	Outdoor Condenser Coil	-	2	Coil		
6	3	High Pressure Switch Changzhou Match Well 250v 3.0/2.4mpa	3 Amp	2	Pcs.		
7	4	Low Pressure Switch Changzhou Match Well 250v 0.05/0.15mpa	3 Amp	2	Pcs.		
SECTION 3: CASSETTE TYPE AC 2.5 TON (PEARL)							
8	1	Indoor Circuit Card	-	2	Pcs.		
9	2	Indoor Drain Line Pump	-	2	Pcs.		
10	3	Outdoor Condenser Coil	-	2	Coil		
SECTION 4: GENERAL ITEMS USE IN AIR CONDITIONING							
11	1	Gas R-22 (Make: USA / Honeywell / Best Quality if any)	13.5 Kg	8	Cylinder		
12	2	Gas R-410-A (Make: USA / Honeywell Best Quality if any)	11 Kg	12	Cylinder		
13	3	Gas R-134-A (Make: USA / Honeywell Best Quality if any)	11 Kg	2	Cylinder		
14	4	Gas R-404-A (Make: USA / Honeywell Best Quality if any)	10.5 Kg	1	Cylinder		
15	5	CTC Flushing Chemical	-	50	Liter		
16	6	1000 Flushing Chemical	-	50	Liter		

S.#	Item #	Item Description	Size	Tentative Qty.	U.O.M	Unit Price	Total Amount
17	7	Compressor Oil R-22 (Make: Suniso Original / Shell / Best Quality)	4 Liter on each gallon	1	Gallon		
18	8	Compressor Oil R-410 (Make: Suniso Original / Shell / Best Quality)	4 Liter on each gallon	1	Gallon		
19	9	Compressor Oil R-134 (Make: Suniso Original / Shell / Best Quality)	4 Liter on each gallon	4	Gallon		
20	10	Compressor Relay	1/8 Ton	2	Pcs.		
21	11	Compressor Relay	4 Ton	2	Pcs.		
22	12	Compressor Over Load	1/8 Ton	2	Pcs.		
23	13	Compressor Over Load	4 Ton	2	Pcs.		
24	14	Capacitor (Make: Fuji or Best Quality)	50uf	6	Pcs.		
25	15	Capacitor (Make: Fuji or Best Quality)	60uf	6	Pcs.		
26	16	Capacitor (Make: Fuji or Best Quality)	2.5uf	6	Pcs.		
27	17	Capacitor (Make: Fuji or Best Quality)	3.5uf	12	Pcs.		
28	18	Capacitor (Make: Fuji or Best Quality)	4.5uf	12	Pcs.		
29	19	Capacitor (Make: Fuji or Best Quality)	20uf	4	Pcs.		
30	20	Contactora Single Phase 16 Amp 1-Pole (Make: Schneider or Best Quality)	16 Amp	6	Pcs.		
31	21	Contactora Single Phase 16 Amp 2-Pole (Make: Schneider or Best Quality)	16 Amp	4	Pcs.		
32	22	Contactora Single Phase 20 Amp 2-Pole (Make: Schneider or Best Quality)	20 Amp	4	Pcs.		
33	23	Contactora Three Phase 32 Amp 3-Pole (Make: Schneider or Best Quality)	32 Amp	6	Pcs.		
34	24	Gas Charging Valve 1/4 (Make: Mueller/Muller USA/Trox or Best Quality)	1/4"	6	Pcs.		
35	25	Gas Charging Valve 1/2 (Make: Mueller/Muller USA/Trox or Best Quality)	1/2"	6	Pcs.		
36	26	Gas Charging Valve 3/8 (Make: Mueller/Muller USA/Trox or Best Quality)	3/8"	6	Pcs.		

S.#	Item #	Item Description	Size	Tentative Qty.	U.O.M	Unit Price	Total Amount
37	27	Gas Charging Valve 5/8 (Make: Mueller/Muller USA/Trox or Best Quality)	5/8"	6	Pcs.		
38	28	Gas Charging Valve 3/4 (Make: Mueller/Muller USA/Trox or Best Quality)	3/4"	4	Pcs.		
39	29	Strainers 1/4 (For Split Ac) (Make: Mueller/Muller USA/Trox or Best Quality)	1/4"	4	Pcs.		
40	30	Strainers 1/4 5Gram (Make: Mueller/Muller USA/Trox or Best Quality)(For Water Cooler)	1/4" 5-Grams	3	Pcs.		
41	31	Strainers 1/4 15Gram (Make: Mueller/Muller USA/Trox or Best Quality) (For Water Cooler)	1/4" 15-Grams	3	Pcs.		
42	32	Strainers 45Gram (Make: Mueller/Muller USA/Trox or Best Quality) (For Water Cooler)	45-Grams	3	Pcs.		
43	33	Strainers 50Gram (Make: Mueller/Muller USA/Trox or Best Quality) (For Water Cooler)	50-Grams	6	Pcs.		
44	34	Copper U Band 1/4 (Make: Mueller/Muller USA/Trox or Best Quality) (Conforming To Existing At Site)	1/4"	300	Pcs.		
45	35	Copper U Band 3/8 (Make: Mueller/Muller USA/Trox or Best Quality) (Conforming To Existing At Site)	3/8"	300	Pcs.		
46	36	Water Cooler Thermostat (Make: Denfos Germany or Best Quality)	-	2	Pcs.		
47	37	Flexible Pipe PVC (For Drain Line) Best Quality	1/2"	200	Feet's		
48	38	Flexible Pipe PVC (For Drain Line) Best Quality	3/4"	100	Feet's		
49	39	Flexible Pipe PVC (For Drain Line) Best Quality	1-1/2"	100	Feet's		

S.#	Item #	Item Description	Size	Tentative Qty.	U.O.M	Unit Price	Total Amount
50	40	Nut For AC Bracket	12mm	5	KG		
51	41	Bolt For AC Bracket	12mm	5	KG		
52	42	Copper Pipe 50, Feet Coil (Make: Mueller/Muller USA or Best Quality)	1/4"	3	Coil		
53	43	Copper Pipe 50, Feet Coil (Make: Mueller/Muller USA or Best Quality)	3/8"	3	Coil		
54	44	Copper Pipe 50, Feet Coil (Make: Mueller/Muller USA or Best Quality)	1/2"	2	Coil		
55	45	Copper Pipe 50, Feet Coil (Make: Mueller/Muller USA or Best Quality)	5/8"	3	Coil		
56	46	Copper Pipe 50, Feet Coil (Make: Mueller/Muller USA or Best Quality)	3/4"	3	Coil		
57	47	Copper Pipe 50, Feet Coil (Make: Mueller/Muller USA or Best Quality)	7/8"	1	Coil		
58	48	Flare Nut Copper (Make: Mueller/Muller USA or Best Quality)	1/4"	12	Pcs.		
59	49	Flare Nut Copper (Make: Mueller/Muller USA or Best Quality)	3/8"	12	Pcs.		
60	50	Flare Nut Copper (Make: Mueller/Muller USA or Best Quality)	1/2"	12	Pcs.		
61	51	Flare Nut Copper (Make: Mueller/Muller USA or Best Quality)	5/8"	12	Pcs.		
62	52	Flare Nut Copper (Make: Mueller/Muller USA or Best Quality)	3/4"	12	Pcs.		
63	53	Liquid Line Drier Filter Welded (Make: Alco Controls / Danfoss / Castel or Best Quality)	1/4"	4	Pcs.		

S.#	Item #	Item Description	Size	Tentative Qty.	U.O.M	Unit Price	Total Amount
64	54	Liquid Line Drier Filter Welded (Make: Alco Controls / Danfoss / Castel or Best Quality)	3/8"	4	Pcs.		
65	55	Liquid Line Drier Filter Welded (Make: Alco Controls / Danfoss / Castel or Best Quality)	1/2"	2	Pcs.		
66	56	Solenoid Valve 220-Vac (Make: Alco Controls/ Danfoss/Castel or Best Quality)	1/4"	4	Pcs.		
67	57	Aero flux Insulation for Copper Pipe	5/8"	200	Pcs.		
68	58	Aero flux Insulation for Copper Pipe	7/8"	400	Pcs.		
69	59	Aero flux Insulation for Copper Pipe	1-1/8"	600	Pcs.		
SECTION 5: AIR HANDLING UNIT (MCQUEY)							
70	1	AHU Blower Motor Belt (Compatible with existing equipment)	Spa-1157 Lw	4	Pcs.		
71	2	AHU Blower Motor Belt (Compatible with existing equipment)	Spa-1060 Lw	4	Pcs.		
72	3	AHU Blower Motor Belt (Compatible with existing equipment)	Spa-1320 Lw	4	Pcs.		
73	4	AHU Blower Motor Belt (Compatible with existing equipment)	Spa-1082 Lw	4	Pcs.		
74	5	AHU Blower Motor Belt (Compatible with existing equipment)	Spa-900 Lw	4	Pcs.		
75	6	AHU Blower Motor Belt (Compatible with existing equipment)	Spa-982 Lw	4	Pcs.		
76	7	AHU Blower Motor Belt (Compatible with existing equipment)	Spa-850 Lw	4	Pcs.		
77	8	AHU Blower Motor Belt (Compatible with existing equipment)	Spa-950 Lw	4	Pcs.		
78	9	AHU Blower Motor Belt (Compatible with existing equipment)	Spa-882 Lw	4	Pcs.		

S.#	Item #	Item Description	Size	Tentative Qty.	U.O.M	Unit Price	Total Amount
79	10	AHU Blower Motor Belt (Compatible with existing equipment)	Spa-1272 Lw	4	Pcs.		
80	11	AHU Blower Motor Belt (Compatible with existing equipment)	Spa-1000 Lw	4	Pcs.		
81	12	AHU Blower Motor Belt (Compatible with existing equipment)	Spa-1207 Lw	4	Pcs.		
82	13	AHU Blower Motor Belt (Compatible with existing equipment)	B-49	4	Pcs.		
83	14	AHU Blower Motor Belt (Compatible with existing equipment)	A-78	4	Pcs.		
84	15	AHU Blower Motor Belt (Compatible with existing equipment)	A-76	4	Pcs.		
85	16	AHU Blower Motor Belt (Compatible with existing equipment)	AX64LI	4	Pcs.		
86	17	AHU Blower Motor Belt (Compatible with existing equipment)	A-63	4	Pcs.		
87	18	AHU Blower Motor Belt (Compatible with existing equipment)	A-68	4	Pcs.		
88	19	AHU Blower Motor Belt (Compatible with existing equipment)	B-68	4	Pcs.		
89	20	AHU Bearings (Make SKF/NTN/Best Quality)	YET - 205	6	Pcs.		
90	21	AHU Bearings (Make SKF/NTN/Best Quality)	YET - 206	6	Pcs.		
91	22	AHU Bearings (Make SKF/NTN/Best Quality)	YET - 207	6	Pcs.		
92	23	AHU Bearings (Make SKF/NTN/Best Quality)	YET - 208	6	Pcs.		
93	24	AHU Bearings (Make SKF/NTN/Best Quality)	YET - 209	6	Pcs.		
94	25	AHU Bearings (Make SKF/NTN/Best Quality)	YET - 210	6	Pcs.		
95	26	Flexible Duct Connector (Make: Dura Dyne / Best Quality)	6" 100 feet's = each roll	2	Roll		

S.#	Item #	Item Description	Size	Tentative Qty.	U.O.M	Unit Price	Total Amount
96	27	Flexible Duct Connector (Make: Dura Dyne / Best Quality)	10" 100 feet's = each roll	2	Roll		
97	28	Canvas Connection	4' W	250	Feets		
98	29	Nut	10mm	3	KG		
99	30	Bolt	10mm	3	KG		
100	31	Timer Multi Min to Sec 8-pin (Make: Fotek / Best Quality)	0.5 to 12-Amp	12	Pcs.		
101	32	Breaker 2-Pole (Hager / Best Quality)	20 - Amp	3	Pcs.		
102	33	Breaker TP Terasaki / Best Quality	32 - Amp	4	Pcs.		
103	34	Magnetic Contactor With Auxiliry Contact Terasaki TC-12 / Best Quality	32 - Amp	12	Pcs.		
104	35	E.O.C.R (Make: Schneider / Best Quality)	5Amp to 70 Amp	6	Pcs.		
105	36	E.O.C.R (Make: Schneider / Best Quality)	0.5Amp to 6.5-Amp	6	Pcs.		
106	37	Motorize / Actuator Valve MS-4D-6083-100/24VAC/DC 50/60HZ (Make: Schneider / Best Quality)	5.2VA-2.7W	1	Pcs.		
107	38	Cleanable Filter G-4 Aluminum Body Size: L592xW592xD048mm (Make: General or Equivalent)	L592xW592x D048mm	115	Pcs.		
108	39	Cleanable Filter G-4 Aluminum Body Size: L592xW287xD048mm (Make: General or Equivalent)	L592xW287x D048mm	70	Pcs.		
109	40	Air Vent / Air Purger SS	-	24	Pcs.		
SECTION 6: FRESH AIR HANDLING UNIT'S (CLIMATEC)							
110	1	Controlling Breaker	2 Amp	6	Pcs.		
111	2	Magnetic Contactor With Auxiliry Contact TC-22/ TC-18	32 Amp	12	Pcs.		
112	3	E O C R (Make: Schneider / Best Quality)	5 - 70 Amp	4	Pcs.		
113	4	Timer TUBN 8-Pin (Make: Fotek / Best Quality)	220-VAC	6	Pcs.		
114	5	Relay With Base (Make: Schneider/ Best Quality)	24-VAC	8	Pcs.		

S.#	Item #	Item Description	Size	Tentative Qty.	U.O.M	Unit Price	Total Amount
115	6	Relay With Base (Make: Schneider / Best Quality)	220-VAC	12	Pcs.		
116	7	FA AHU BAG Filter NTE-9 Size: 592x592x292mm (Make: General or Equivalent)	W592xL592x D292mm	192	Pcs.		
117	8	FA AHU BAG Filter F-9 NTE-9 Size: 287x592x292mm (Make: General or Equivalent)	W287xL592x D292mm	192	Pcs.		
118	9	FA AHU HEPA Filter H-14 LAM-14 Size: 90x914x914mm (Make: General or Equivalent) (Conforming To Existing At Site)	D90xW914xL 914mm	160	Pcs.		
119	10	FA AHU HEPA Filter H-14 LAM-14 Size: 90x914x610mm (Make: General or Equivalent)	D90xL914xW 610mm	160	Pcs.		
120	11	FA AHU Filter Media 2" Thick 4' Width 20m Length	20 Meter/Roll	24	Pcs.		
121	12	FA AHU Air (HEPA) Filter Astrocel I Design: AST-I 14E20J9T2j0 (Make: American Air Filter AAF & General Filters)	L24 X W24 X D 5-7/8	12	Pcs.		
122	13	FA AHU Screws With Nut & Washer (Conforming To Existing At Site)	8 mm	2	KG		
123	14	FA AHU Selector Switch Manual Motor Controller 165628/340B Listed 50-60 Hz 600Vac	25 Amp	2	Pcs.		
124	15	Element Heater 2 Feet's Length	2000 Watt	6	Length		
125	16	Element Heater 2-1/2 Feet's Length	2500 Watt	6	Length		
126	17	Element Heater 3 Feet's Length	3000 Watt	6	Length		
127	18	Connector Pros Lean	50 Amp	24	Pcs.		
128	19	Connector Pros Lean	100 Amp	24	Pcs.		
129	20	Heat Proof Sleeve 2.No	-	24	Feet's		
130	21	Heat Proof Sleeve 3.No		24	Feet's		
131	22	Heat Proof Sleeve 4.No		24	Feet's		
132	23	Heat Proof Sleeve 5.No		24	Feet's		
133	24	Heat Proof Wire (90 Meter Coil)	2.5mm	1	Coil		

S.#	Item #	Item Description	Size	Tentative Qty.	U.O.M	Unit Price	Total Amount
134	25	Heat Proof Wire (90 Meter Coil)	4mm	1	Coil		
135	26	FA AHU Door Rubber Gas kit		50	Rft.		
136	27	FA AHU HEPA Filter Frame	947.7 L X 914W X 76.2D	10	Pcs.		
SECTION 7: FAN COIL UNIT'S WALL MOUNTED, CEILING MOUNTED, HANGING MOUNTED (MCQUEY)							
137	1	FCU Motorize Valve 3 Way 2 (Make: Honeywell / Best Quality)	1/2"	4	Pcs.		
138	2	FCU Motorize Valve 3 Way 2 (Make: Honeywell / Best Quality)	3/4"	4	Pcs.		
139	3	FCU Motorize Valve 3 Way 2 (Make: Honeywell / Best Quality)	1"	4	Pcs.		
140	4	FAN COIL UNIT	2 Ton	3	Pcs.		
141	5	Ceiling Mounted FCU Evaporator Coil	-	2	Coil		
142	6	Thermostat For Ceiling Mounted FCU (Make: Honeywell / Best Quality)	3 Speed Controller	8	Pcs.		
SECTION 8: EXHAUST FAN							
143	1	Magnetic Contactor With Auxiliry Contact (Make: Terasaki / Best Quality)	10 - Amp	4	Pcs.		
144	2	Breaker's (Make: Terasaki / Best Quality)	10 - Amp	6	Pcs.		
145	3	E O C R (Make: Schneider / Best Quality)	0 - 6 Amp	6	Pcs.		
146	4	CT Switch Fixed Set point (Make: Mamac Model: CT-800 / Compatible with existing)	1 Amp	6	Pcs.		
147	5	Fan Start / Stop Relay (Make: Schneider Model: RXM3AB / Compatible with existing)	24-VAC	6	Pcs.		
SECTION 9: COOLING TOWER (KUKEN)							
148	1	Bearings Primary Chilled Water Pump (Make: SKF / NTN / Best Quality)	DE/NE 6215 - ZC3	2	Pcs.		
149	2	Cooling Tower Fan Motor Belt	B-146	48	Pcs.		
150	3	Float Valve	1"	6	Pcs.		

S.#	Item #	Item Description	Size	Tentative Qty.	U.O.M	Unit Price	Total Amount
151	4	Handle Valve (Make: Econosto / Compatible with existing)	1 1/2"	6	Pcs.		
152	5	E O C R (Make: Schneider / Best Quality)	0.5/6.5 Amp	2	No's		
153	6	Breaker 2 Pole(Make: Terasaki/Best Quality)	16 Amp	2	Pcs.		
154	7	Filling Fins A & B Set	A&B consider 1set	1500	Set		

SECTION 10: GENERAL ITEMS

155	1	Octyl Alcohol in liquid form 55% USA Origin (recommended by manufacturer compatibility of this chemical should be conforming to existing at site)	-	25	Liter		
156	2	Inhibitor in liquid form 20% USA Origin (recommended by manufacturer compatibility of this chemical should be conforming to existing at site)	-	25	Liter		
157	3	Lithium Molybdate 20% (recommended by manufacturer compatibility of this chemical should be conforming to existing at site)	-	25	Kg		
158	4	Lithium Bromide Solution 20% (recommended by manufacturer compatibility of this chemical should be conforming to existing at site)	-	25	Liter		
159	5	De- Scalar Chemical	-	100	Liter		
160	6	AHU Coil Cleaning Chemical Air side	-	400	Liter		
161	7	Rowel Bolt 10mm Best Quality	10mm	50	Pcs.		
162	8	Rowel Bolt 12mm Best Quality	12mm	50	Pcs.		
163	9	Glass Whole 2" Thickness 1.2m Width High Density Aluminum Foil / Kraft Laminate Facing (FSK) 45 Meter Roll (Make: KIMMCO or Equivalent)	45 Meter per roll	2	Roll		
164	10	Teflon Tape (Best Quality)		250	Pcs.		

S.#	Item #	Item Description	Size	Tentative Qty.	U.O.M	Unit Price	Total Amount
165	11	Duct Sealer Solution (Best Quality)	5 Kg Per Cane	10	Cane		
166	12	Thread Rod (Best Quality)	10mm / 2meter	150	Rods		
167	13	Thread Rod (Best Quality)	12mm / 2meter	150	Rods		
168	14	Nut With Washer (Best Quality)	10mm	2	KG		
169	15	Nut With Washer (Best Quality)	12mm	2	KG		
170	16	GI Sheet For Ducting 26 Gauge (Best Quality)	-	100	Meter		
171	17	Cable Tie 4" (Best Quality)	4" 100 Pcs Box	3	Packet		
172	18	Cable Tie 6" (Best Quality)	6" 100 Pcs Box	3	Packet		
173	19	Cable Tie 8" (Best Quality)	8" 100 Pcs Box	3	Packet		
174	20	Cable Tie 10" (Best Quality)	10"100 Pcs Box	3	Packet		
175	21	Cable Tie 12" (Best Quality)	12" 100 Pcs Box	3	Packet		
176	22	Jubilee Clamp 1/2" SS (Best Quality)	1/2"	12	Pcs.		
177	23	Jubilee Clamp 3/4" SS (Best Quality)	3/4"	12	Pcs.		
178	24	Jubilee Clamp 1" SS (Best Quality)	1"	12	Pcs.		
179	25	Jubilee Clamp 1-1/2" SS (Best Quality)	1-1/2"	12	Pcs.		
180	26	Jubilee Clamp 1- 1/4" SS (Best Quality)	1-1/4"	12	Pcs.		
181	27	Jubilee Clamp 2" SS (Best Quality)	2"	12	Pcs.		
182	28	Jubilee Clamp 2-1/2" SS (Best Quality)	2-1/2"	12	Pcs.		
183	29	Jubilee Clamp 2- 1/4" SS (Best Quality)	2-1/4"	12	Pcs.		
184	30	Jubilee Clamp 3" SS (Best Quality)	3"	12	Pcs.		
185	31	Jubilee Clamp 3-1/2" SS (Best Quality)	3-1/2"	12	Pcs.		
186	32	WD-40 330ml	330 ML	100	Pcs.		
187	33	CRC 300ml	300 ML	50	Pcs.		
188	34	Emery Paper Best Quality	0 - No	24	Pcs.		

S.#	Item #	Item Description	Size	Tentative Qty.	U.O.M	Unit Price	Total Amount
189	35	Emery Paper Best Quality	0.5 No	24	Pcs.		
190	36	Emery Paper Best Quality	1.0 No	24	Pcs.		
191	37	Emery Paper Best Quality	1.5 No	24	Pcs.		
192	38	Emery Paper Best Quality	2.0 No	24	Pcs.		
193	39	Aero Flux Sheet 1x4x9 meter Best Quality	1"Dx 4W x9 Meter L	2	Roll		
194	40	Aero Flux Sheet 1/2"x4'x9 meter Best Quality	1/2"Dx4Feet W x9Meter L	2	Roll		
195	41	Abro Tape 2" Best Quality	2"X 33Yds	300	Pcs.		
196	42	Vacuum Pump Oil (Make: Robin Air / Best Quality)	3.75 Liter Per Gallon	6	Gallon		
197	43	Paint Brush 2" Best Quality	2"	24	Pcs.		
198	44	Mixing Oil Superior Quality	10 Liter Per Cane	20	Cane		
199	45	Thinner Superior Quality	10 Liter Per Cane	20	Cane		
200	46	Epoxy Grey Paint (Make: ICI / Best Quality)	3.75 Liter Per Gallon	20	Gallon		
201	47	Yellow Paint (Make: ICI / Best Quality)	3.75 Liter Per Gallon	1	Gallon		
202	48	Blue Oxford Paint (Make: ICI / Best Quality)	3.75 Liter Per Gallon	6	Gallon		
203	49	Gray Dark Paint (Make: ICI / Best Quality)	3.75 Liter Per Gallon	4	Gallon		
204	50	Gray Smoke Paint (Make: ICI / Best Quality)	3.75 Liter Per Gallon	6	Gallon		
205	51	Blue Comet Paint (Make: ICI / Best Quality)	3.75 Liter Per Gallon	4	Gallon		
206	52	Black Paint (Make: ICI / Best Quality)	3.75 Liter Per Gallon	6	Gallon		
207	53	Sea Green Paint (Make: ICI / Best Quality)	3.75 Liter Per Gallon	10	Gallon		
208	54	White Paint (Make: ICI / Best Quality)	3.75 Liter Per Gallon	8	Gallon		
209	55	Red Oxide Paint (Make: ICI / Best Quality)	3.75 Liter Per Gallon	30	Gallon		
210	56	Anti-Fungus Paint With Mixing Oil (Make: Comex / Best Quality)	11 Liter Per Cane	20	Cane		
211	57	Garden Pipe 1" High Pressure Best Quality	1"	200	Feet's		

S.#	Item #	Item Description	Size	Tentative Qty.	U.O.M	Unit Price	Total Amount
212	58	Duct Tape (Make: Abro Premium Foil / Best Quality) 2"	2" x 33Yds	150	Pcs.		
213	59	PVC Insulation Tape 2" (Black) Best Quality	2" 33 Yds	300	Pcs.		
214	60	PVC Tape Red (Make: Nito / Best Quality)	3/4"	100	Pcs.		
215	61	PVC Tape Yellow (Make: Nito / Best Quality)	3/4"	100	Pcs.		
216	62	PVC Tape White (Make: Nito / Best Quality)	3/4"	6	Pcs.		
217	63	PVC Tape Blue (Make: Nito / Best Quality)	3/4"	6	Pcs.		
218	64	PVC Tape Black (Make: Nito / Best Quality)	3/4"	60	Pcs.		
219	65	Silicon Tube Clear RTV Best Quality	300ml	300	Pcs.		
220	66	Cementex Solution NT-80 Best Quality	1 Kg	2	Kg		
221	67	Cut Screws SS Best Quality(100 Pcs)	2-1/2 X 10	2	Box		
222	68	Cut Screws SS Best Quality (100Pcs)	3 X 10	2	Box		
223	69	High Temperature Gas Kit 5mm	4 X 6 Feet	1	Roll		
224	70	Pop Rivet Best Quality (500 Pcs)	1.5mm	1	Box		
225	71	Pop Rivet Best Quality (500 Pcs)	2mm	1	Box		
226	72	Pop Rivet Best Quality (500 Pcs)	3mm	1	Box		
227	73	Pop Rivet Best Quality (500 Pcs)	4mm	1	Box		
228	74	White Spray Paint Best Quality	400 - CC	6	Cane		
229	75	Black Spray Paint Best Quality	400 - CC	6	Cane		
230	76	Epoxy Solution Fins Pasting Best Quality	2 Kg per bottle	6	Bottle		
231	77	Glycerin Solution Best Quality	1 Kg per bottle	2	Bottle		
232	78	Foam Spray Best Quality	500ml/560gm	50	Cane		
233	79	Chilled Water Pipe Insulation Cloth Best Quality	100 Meter Per Roll	8	Roll		

S.#	Item #	Item Description	Size	Tentative Qty.	U.O.M	Unit Price	Total Amount
234	80	Glue For Pasting Chilled Water Pipe Insulation Cloth Best Quality	50 Kg Per Drum	4	Drum		
235	81	Flexible Neck For Duct Connection 4" Best Quality	10 - Meter in Box	3	Box		
236	82	Flexible neck For Duct Connection 6" Best Quality	10 - Meter in Box	3	Box		
237	83	Hold tite Solution Best Quality	400 Gram	2	Tin		
238	84	Elfie Solution Best Quality	100ml	6	Tube		
SECTION 11: BUILDING MANAGEMENT SYSTEM							
239	1	Line Type Temperature Sensor	TE - 703	20	No's		
240	2	Braswell 6"	-	4	No's		
241	3	Duct Type Temperature Sensor	TE - 702	2	No's		
242	4	Thermostat	MNS4-HT	6	No's		
243	5	Bacnet Controller	MNB-70	4	No's		
244	6	Bacnet Controller	MNB-300	2	No's		
245	7	DUI Expender	DUI	5	No's		
246	8	Power Supply Card	PCB	5	No's		
247	9	Step Down Transformer	XFMR	5	No's		
248	10	Valve Actuator 1"	MS	1	No's		
249	11	5.5 KW VFD	Schneider	2	No's		
250	12	D.P Switch 10 Pascal	-	2	No's		
251	13	Humidity Sensor	HU-224	3	No's		
252	14	Damper Actuator	-	3	No's		
253	15	D.P Switch 10 Pascal	MBS-300	3	No's		
254	16	Flow Switch	-	1	No's		
255	17	Step Down Transformer	XFMR	5	No's		
256	18	45 KW VFD	Schneider	1	No's		
SECTION 12: PLANT ROOM PRIMARY CHILLED WATER PUMP (KSB)							
257	1	Bearings Primary Chilled Water Pump (Make: SKF / NTN / Best Quality)	DE/NE 6212 - ZC3	2	No's		
258	2	Magnetic Contactor With Auxiliry Contact (Make: Terasaki TC-50 / Best Quality)	50/70 Amp	1	No's		
259	3	E O C R (Make: Schneider / Best Quality)	5/70 Amp	6	No's		
260	4	Timer (Make: Fotek H3 TRD - 30S / Compatible with existing)	220 Volt AC	4	No's		
261	5	Auxiliary Contact (Make: NONC / Compatible with existing)	TC-50 / TC-32	4	No's		

S.#	Item #	Item Description	Size	Tentative Qty.	U.O.M	Unit Price	Total Amount
262	6	Pump Coupling Rubber Best Quality	-	48	No's		
SECTION 13: SECONDARY CHILLED WATER PUMP (KSB)							
263	1	Bearings Primary Chilled Water Pump (Make: SKF / NTN / Best Quality)	DE/NE 6213 - ZC3	2	No's		
264	2	Pump Coupling Rubber Best Quality	-	48	No's		
SECTION 14: CHILLER INCOMING TO MCC PANEL							
265	1	Ampere Meter (Make: ELME SURE ALPHA + 3A / Compatible with existing)	3 Amp	6	No's		
266	2	Volt Meter (Make: ELME SURE ALPHA + 3A / Compatible with existing)	3 Volt	6	No's		
267	3	Selector Switch (Make: Comsco / Compatible with existing)	20 Amp	6	No's		
268	4	Push Button Start / Stop (Compatible with existing)	-	6	No's		
269	5	Panel Exhaust Fan 220v / 24v (Compatible with existing)	4"	24	No's		
270	6	Panel Exhaust Fan 220v / 24v (Compatible with existing)	6"	24	No's		
271	7	Panel Exhaust Fan 220v / 24v (Compatible with existing)	8"	24	No's		
SECTION 15: KAWASAKI CHILLER							
272	1	Gasket For Absorber, Evaporator And Condenser (Compatible with existing)	-	1	Set		
273	2	Flame Detector (Honeywell)	C7035A 1064	1	No's		
SECTION 16: SHUANGLIANG CHILLER							
274	1	Temperature Module AM08030024	-	4	No's		
275	2	Valve Core AM07180010	-	2	No's		
276	3	Valve Core AM07180012	-	2	No's		
277	4	Flame Sensor AM06060108	-	1	No's		
278	5	Platinum Resistor AM08050153	-	1	No's		
279	6	Platinum Resistor AM08050154	-	1	No's		
280	7	Corrugation Pipe O Ring AM21990314	-	2	No's		

S.#	Item #	Item Description	Size	Tentative Qty.	U.O.M	Unit Price	Total Amount
281	8	High Vacuum Valve DN-25 Complete	-	1	No's		
282	9	Platinum Resistor AM08050155	-	1	No's		
283	10	Corrugation Pipe D8026-0048	-	1	No's		
284	11	Breaker 1-Pole (Make: Schneider)	-	1	No's		
285	12	Relay MY2N-CR-J 220/240vac	-	1	No's		
SECTION 17: VALVES & GAUGES							
286	1	Insulation Chilled Water Pipe RIGID pipe Covering K-450 KRS - 120 KG/m3 - 120 LBS/Ft3 - 7.5 (Make: KIMMCO Steel Seamless Pipe To BS-1387, BS-3600 & ANSI / ASTM B-36,10-1985/ Best Quality)	3/4" X 2'	300	Feet		
287	2	Insulation Chilled Water Pipe RIGID pipe Covering K-450 KRS - 120 KG/m3 - 120 LBS/Ft3 - 7.5 (Make: KIMMCO Steel Seamless Pipe To BS-1387, BS-3600 & ANSI / ASTM B-36,10-1985/ Best Quality)	1" X 2'	200	Feet		
288	3	Insulation Chilled Water Pipe RIGID pipe Covering K-450 KRS - 120 KG/m3 - 120 LBS/Ft3 - 7.5 (Make: KIMMCO Steel Seamless Pipe To BS-1387, BS-3600 & ANSI / ASTM B-36,10-1985/ Best Quality)	1 - 1/4" X 2'	200	Feet		
289	4	Insulation Chilled Water Pipe RIGID pipe Covering K-450 KRS - 120 KG/m3 - 120 LBS/Ft3 - 7.5 (Make: KIMMCO Steel Seamless Pipe To BS-1387, BS-3600 & ANSI / ASTM B-36,10-1985/ Best Quality)	1 - 1/2" X 2'	300	Feet		

S.#	Item #	Item Description	Size	Tentative Qty.	U.O.M	Unit Price	Total Amount
290	5	Insulation Chilled Water Pipe RIGID pipe Covering K-450 KRS - 120 KG/m3 - 120 LBS/Ft3 - 7.5 (Make: KIMMCO Steel Seamless Pipe To BS-1387, BS-3600 & ANSI / ASTM B-36,10-1985/ Best Quality)	2" X 2'	300	Feet		
291	6	Insulation Chilled Water Pipe RIGID pipe Covering K-450 KRS - 120 KG/m3 - 120 LBS/Ft3 - 7.5 (Make: KIMMCO Steel Seamless Pipe To BS-1387, BS-3600 & ANSI / ASTM B-36,10-1985/ Best Quality)	2 - 1/2" X 2'	400	Feet		
292	7	Insulation Chilled Water Pipe RIGID pipe Covering K-450 KRS - 120 KG/m3 - 120 LBS/Ft3 - 7.5 (Make: KIMMCO Steel Seamless Pipe To BS-1387, BS-3600 & ANSI / ASTM B-36,10-1985/ Best Quality)	3" X 2'	400	Feet		
293	8	Insulation Chilled Water Pipe RIGID pipe Covering K-450 KRS - 120 KG/m3 - 120 LBS/Ft3 - 7.5 (Make: KIMMCO Steel Seamless Pipe To BS-1387, BS-3600 & ANSI / ASTM B-36,10-1985/ Best Quality)	3 - 1/2" X 2'	400	Feet		
294	9	Insulation Chilled Water Pipe RIGID pipe Covering K-450 KRS - 120 KG/m3 - 120 LBS/Ft3 - 7.5 (Make: KIMMCO Steel Seamless Pipe To BS-1387, BS-3600 & ANSI / ASTM B-36,10-1985/ Best Quality)	4" X 2'	400	Feet		
295	10	Insulation Chilled Water Pipe RIGID pipe Covering K-450 KRS - 120 KG/m3 - 120 LBS/Ft3 - 7.5 (Make: KIMMCO Steel Seamless Pipe To BS-1387, BS-3600 & ANSI / ASTM B-36,10-1985/ Best Quality)	4 - 1/2" X 2'	300	Feet		

S.#	Item #	Item Description	Size	Tentative Qty.	U.O.M	Unit Price	Total Amount
296	11	Insulation Chilled Water Pipe RIGID pipe Covering K-450 KRS - 120 KG/m3 - 120 LBS/Ft3 - 7.5 (Make: KIMMCO Steel Seamless Pipe To BS-1387, BS-3600 & ANSI / ASTM B-36,10-1985/ Best Quality)	5" X 2'	500	Feet		
297	12	Insulation Chilled Water Pipe RIGID pipe Covering K-450 KRS - 120 KG/m3 - 120 LBS/Ft3 - 7.5 (Make: KIMMCO Steel Seamless Pipe To BS-1387, BS-3600 & ANSI / ASTM B-36,10-1985/ Best Quality)	6" X 2'	500	Feet		
298	13	Insulation Chilled Water Pipe RIGID pipe Covering K-450 KRS - 120 KG/m3 - 120 LBS/Ft3 - 7.5 (Make: KIMMCO Steel Seamless Pipe To BS-1387, BS-3600 & ANSI / ASTM B-36,10-1985/ Best Quality)	8" X 2'	100	Feet		
299	14	Insulation Chilled Water Pipe RIGID pipe Covering K-450 KRS - 120 KG/m3 - 120 LBS/Ft3 - 7.5 (Make: KIMMCO Steel Seamless Pipe To BS-1387, BS-3600 & ANSI / ASTM B-36,10-1985/ Best Quality)	10" X 2'	100	Feet		
300	15	Insulation Chilled Water Pipe RIGID pipe Covering K-450 KRS - 120 KG/m3 - 120 LBS/Ft3 - 7.5 (Make: KIMMCO Steel Seamless Pipe To BS-1387, BS-3600 & ANSI / ASTM B-36,10-1985/ Best Quality)	12" X 2'	50	Feet		
SECTION 18: VRV CHILLER MDS MCQUEY Ref: PART NO							
301	1	TUBE,COIL SENSOR 6.35x6.7x28,DY/KT (MAKE: MCQUAY / Compatible with existing)	A02014021112	6	No's		

S.#	Item #	Item Description	Size	Tentative Qty.	U.O.M	Unit Price	Total Amount
302	2	TUBE, VALVE TO H.EX (MAKE: MCQUAY / Compatible with existing)	M0201446245 0	1	No's		
303	3	BEND, U CU 3/8"x1" WITH RING, W909894G01, HD (MAKE: MCQUAY / Compatible with existing)	M0202901288 8	200	No's		
304	4	FILTER DRIER, DML303,023Z0049, D ANFOSS (MAKE: MCQUAY / Compatible with existing)	M0216946000 0	8	No's		
305	5	CONTACTOR, LC1- D09M7C, T.E. SND (MAKE: MCQUAY / Compatible with existing)	M0403900320 2	3	No's		
306	6	CONTACTOR, LC1- D18M7C, T.E. SND (MAKE: MCQUAY / Compatible with existing)	M0403900320 4	3	No's		
307	7	CONTROL MODULE, MDS- P/M/E 2.9A OYL (MAKE: MCQUAY / Compatible with existing)	M0408464008 5	2	No's		
308	8	SENSOR, TEMP. SENSOR MDS200/220/240B410 (MAKE: MCQUAY / Compatible with existing)	M0409401526 9	12	No's		
309	9	SENSOR, PRESSURE H 4.15MPa NSK-BA042D-178 (MAKE: MCQUAY / Compatible with existing)	M0409446000 1	4	No's		
310	10	ENSOR, PRESSURE L 1.7MPa NSK-BA017D-178 (MAKE: MCQUAY / Compatible with existing)	M0409446000 2	16	No's		
311	11	SENSOR, MJZT-103-3450- F1000(150°C) MINJIE (MAKE: MCQUAY / Compatible with existing)	M0409461530 7	12	No's		
312	12	PSW, H20PS B 4.15/3.11MPa 1500mm, JL (MAKE: MCQUAY / Compatible with existing)	M0410901346 7	4	No's		
313	13	PHASE PROTECTOR, DB3A01A(V4. 0), OYL (MAKE: MCQUAY / Compatible with existing)	M0419901197 8	3	No's		

S.#	Item #	Item Description	Size	Tentative Qty.	U.O.M	Unit Price	Total Amount
314	14	IC, MB89F538-101PFM-G FUJITSU (MAKE: MCQUAY / Compatible with existing)	M0423901007 9	2	No's		
315	15	WIRE COIL EXV UKV-A067 SAGINOMIYA (MAKE: MCQUAY / Compatible with existing)	M0424446000 7	3	No's		
316	16	EXV,UKV-18D51,SAGINOMIYA,N-KV-50051 (MAKE: MCQUAY / Compatible with existing)	M0501446002 5	2	No's		
317	17	WIRE,HI SENSOR WIRE MDS080-240 (MAKE: MCQUAY / Compatible with existing)	M1301446500 4	5	No's		
318	18	OIL.EMKARATE RL-32H,R410A,200升/桶 (MAKE: MCQUAY / Compatible with existing)	M1406946000 2	6	Liter		
319	19	CONTROL MODULE,MC201-C-v (2.8A) Software Version OYL (MAKE: MCQUAY / Compatible with existing)	M0408464020 3	6	No's		
320	20	*CU DISTRIBUTOR 8HOLES MA011314 M02129901530 (MAKE: MCQUAY / Compatible with existing)	8HOLES	4	No's		
321	21	ROHS,FILTER,205x1572x8 G1 MCW12C,AAF/ZK M03084066127 (MAKE: MCQUAY / Compatible with existing)	-	2	No's		
322	22	SENSOR,TEMP. SENSOR MCC-T MTE M04094015263 (MAKE: MCQUAY / Compatible with existing)	-	4	No's		
323	23	PANEL LCD,MC301-B B1.9 EN,OYL M04084640076 (MAKE: MCQUAY / Compatible with existing)	-	1	No's		
324	24	PUMP,WATER DRAIN PSB-7(A)0V-01,SH M04134315024 (MAKE: MCQUAY / Compatible with existing)	-	4	No's		

S.#	Item #	Item Description	Size	Tentative Qty.	U.O.M	Unit Price	Total Amount
325	25	Dryer (Make: Alco Controls/ Danfos/Castel / Compatible with existing)	5/8"	4	No's		
326	26	Dryer (Make: Alco Controls/ Danfos/Castel / Compatible with existing)	3/8"	4	No's		
327	27	Dryer (Make: Alco Controls/ Danfos/Castel / Compatible with existing)	1/2"	4	No's		
328	28	EXV Box MEX-24-3SAP-C (MAKE: MCQUAY / Compatible with existing)	-	6	No's		
329	29	EXV Box MEX-22-3SAP-C (MAKE: MCQUAY / Compatible with existing)	-	8	No's		
SECTION 19: P3 DUCTABLE							
330	1	P3 Duct Sheet Aluminum Foil Coated Length 4000mm Width: 1200mm Thick: 20.5mm (Make: P3- Preinsulated Panels System / Compatible with existing)	4000mm X 1200mm	1000	Sqf		
331	2	P3 Duct Pasting Solution (Make: P3-Preinsulated Panels System / Compatible with existing)	5-Litre	4	Gallon		
332	3	Profile Glue Medium Adhesive 21CL08 (Make: P3- Preinsulated Panels System / Compatible with existing)	500 Gram	25	No's		
333	4	Invisible Flange Joint Aluminum 20mm (Make: P3- Preinsulated Panels System / Compatible with existing)	4-Meter	24	Meter		
334	5	Invisible Flange Joint Polymer 20mm (Make: P3-Preinsulated Panels System / Compatible with existing)	4-Meter	24	Meter		
335	6	H - Polymer Bayonet (Make: P3-Preinsulated Panels System / Compatible with existing)	4-Meter	24	Meter		
336	7	Tee Connector Flange Joint 20mm (Make: P3-Preinsulated Panels System / Compatible with existing)	4-Meter	24	Rod		

S.#	Item #	Item Description	Size	Tentative Qty.	U.O.M	Unit Price	Total Amount
337	8	Covering Angle 20mm (Make: P3-Preinsulated Panels System / Compatible with existing)	20mm	24	No's		
338	9	Traditional Joint Aluminum 20mm (Make: P3-Preinsulated Panels System / Compatible with existing)	4-Meter	24	Rod		
339	10	Aluminum Shaped Disk Diameter 100mm Hole Diameter 10mm (Make: P3-Preinsulated Panels System / Compatible with existing)	-	50	No's		
340	11	Reinforcement Section Bar In Aluminum (Make: P3-Preinsulated Panels System / Compatible with existing)	4-Meter	50	Meter		
341	12	Zinc Plated Self Threading Screws (Make: P3-Preinsulated Panels System / Compatible with existing)	6.3 X 63mm	50	No's		
342	13	Saddle Section Bar Aluminum 20mm (Make: P3-Preinsulated Panels System / Compatible with existing)	4-Meter	50	Rod		
343	14	Self-Adhesive Duct Gasket Width: 15mm Thick: 10mm (Make: P3-Preinsulated Panels System / Compatible with existing)	-	6	Roll		

SECTION 20: DIESEL PUMP

344	1	Relay 8-pin 220/240v 50-60Hz HH22PN-T E48 08 Made In Italy / Compatible with existing	HH22PN-T	6	No's		
345	2	Magnetic Contactor MC-12b (Make: LS IS Metasol) Made In Korea Compatible with existing	MC-12b	6	No's		
346	3	Selector Switch 3Ph (Make: Comsco / Compatible with existing)	3ph	6	No's		
347	4	Bearings (Make SKF/NTN/Best Quality)	6201-2RS/C3 1/2	6	No's		
348	5	Bearings (Make SKF/NTN/Best Quality)	6202-2Z/C3	6	No's		
349	6	Bearings (Make SKF/NTN/Best Quality)	6203-2Z/C3	6	No's		

S.#	Item #	Item Description	Size	Tentative Qty.	U.O.M	Unit Price	Total Amount
350	7	Bearings (Make SKF/NTN/Best Quality)	6204-2Z/C3	6	No's		
351	8	Bearings (Make SKF/NTN/Best Quality)	6205-2Z/C3	2	No's		
352	9	Bearings (Make SKF/NTN/Best Quality)	6206-2Z/C3	2	No's		
353	10	Bearings (Make SKF/NTN/Best Quality)	6208-2Z/C3	2	No's		
354	11	Bearings (Make SKF/NTN/Best Quality)	6209-2Z/C3	2	No's		
355	12	Sand Filter With Media 1000kg 3-Way Valve Fitting With PVC Fitting (Chemical Treatment)	36" 72"	1	No's		
356	13	Activated Carbon Filter With Activated Carbon 500kg 3-Way Valve Fitting With PVC Fitting (Chemical Treatment)	36" 72"	1	No's		
SECTION 21: CHILLED AND CONDENSOR WATER PUMPS KSB							
357	1	Pump Shaft seal	-	6	Nos.		
Total:							

Note:

1. The technical evaluation carried out by the Procurement Committee, SMBBIT, Karachi will be final.
2. Financial proposal must be submitted on company letter head duly signed / stamped/ type in figure and words of the total amount; else the offer would be rejected

Signature of Manufacturers /Importers/Sole Agents/Contractors: - _____

Name of Firm: - _____

Full Address: - _____

Office No: - _____ Cell No: - _____

Email Address (if any) _____

BID LETTER FORM

From:

(Registered name and address of the bidder)

To:

Chief Operating Officer,
Shaheed Mohtarma Benazir Bhutto Institute of Trauma,
Karachi – 74200

Dear Sir / Madam,

Having examined the bidding document and amendment thereon we undersigned, offer to provide services to the works including in conformity with the terms and conditions of the bidding document and amendments there on, for the following project in response to your tender call dated _____

Tender Title:

We undertake to provide services/execute the above project or it part assigned to us in conformity with the said bidding documents for an estimated sum of Rs. _____ (Rupees - _____) (total bid amount in words and figures) which may vary in accordance with the schedule of prices attached herewith and coverage options made by SMBBIT or its user organization.

If our bid is accepted, we undertake to;

- 1) Provide services/execute the work according to the time schedule specified in the bid document,
- 2) Obtain the performance guarantee of bank in accordance with bid requirements for the due performance of the contract, and
- 3) Agree to abide by the bid conditions, including pre-bid meeting minutes if any, which remain binding upon us during the entire bid validity period and bid may be accepted any time before the expiration of that period.
- 4) We understand that you are not bound to accept the lowest or any bid you may receive, nor to give any reason for the rejection of any bid and that you will not defray any expenses incurred by us in bidding.

Place:

Date:

Bidder's signature
and seal.

CONTRACT AGREEMENT

Tender Title

This Contract Agreement (hereinafter called the Agreement) made on ___ day of _____ Year.

BETWEEN

M/s.

A Contractor, having its office at **Bidder's address**.(Hereinafter mentioned as Contractor), which expression shall be deemed to mean and include its successors-in-interest and permitted assigns;

AND

SHAHEED MOHTARMA BENAZIR BHUTTO ISTITUTE OF TRAUMA A department under Government of Sindh, having its office at SMBBIT, Chand Bibi Road, Karachi Sindh, Pakistan hereinafter mentioned as "the Client", which expression shall be deemed to mean and include its successors-in-interest and permitted assigns;

WHEREAS the Contractor has agreed to render certain services i.e. "**Tender Title**" to SMBBIT Karachi and has necessary know how and staff in the respect.

AND

WHEREAS the Client is desirous of availing the services offered by the contractor for "**Tender Title**" for its premises at the cost of **Rs. _____/-** (The contract amount) as per below mentioned **BOQ**.

Brief particulars of the services which shall be supplied / provided by the Supplier are as under:

Item. #	DESCRIPTION	Unit Quantity	Unit	Quoted Rate

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 execute and complete the Works 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 Works 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. The Contract Price of tender will be Rs: _____/Year;
6. That estimated cost of tender is on approximate basis and may vary in case of forced majeure or as per the demand of situation.

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.

This contract will be extendible on the same rates till the allocation of new tender.

Signature of the Supplier

Signature of the Purchaser

(Seal)

(Seal)

FORM OF PERFORMANCE SECURITY (Bank Guarantee)

Guarantee No.: _____

Executed on: _____

Expiry date: _____

[Letter by the Guarantor to the Employer]

Name of Guarantor (Bank) with complete address (Scheduled Bank in Pakistan):

Name of Principal (Contractor, Manufacturer, Supplier or any bidder) with complete address:

Penal Sum of Security (express in words and figures):

Letter of Acceptance No. _____ Dated: _____

KNOW ALL MEN BY THESE PRESENTS, that in pursuance of the terms of the Bidding Documents and above said Letter of Acceptance (hereinafter called the Documents) and at the are of the said Principal we, the Guarantor above named, are held and firmly bound unto the Chief Operating Officer (COO), SMBBIT, Karachi (hereinafter called the Employer) in the penal sum of the amount stated above for the payment of which sum well and truly to be made to the said Employer, we bind ourselves, our heirs, executors, administrators and successors, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH that whereas the Principal has accepted the Employer's above said Letter of Acceptance for _____ (Name of Contract) for the _____ (Name of Project).

NOW THEREFORE, if the Principal (Contractor) shall well and truly perform and fulfill all the undertakings, covenants, terms and conditions of the said Documents during the original terms of the said Documents and any extensions thereof that may be granted by the Employer, with or without notice to the Guarantor, which notice is, hereby, waived and shall also well and truly perform and fulfill all the undertakings, covenants terms and conditions of the Contract and of any and all modifications of said Documents that may hereafter be made, notice of which modifications to the Guarantor being hereby waived, then, this obligation to be void; otherwise to remain in full force and virtue till all requirements of Condition of Contract are fulfilled.

Our total liability under this Guarantee is limited to the sum stated above and it is a condition of any liability attaching to us under this Guarantee that the claim for payment in writing shall be received by us within the validity period of this Guarantee, failing which we shall be discharged of our liability, if any, under this Guarantee.

We, _____ (the Guarantor), waiving all objections and defences under the Contract, do hereby irrevocably and independently guarantee to pay to the Employer without delay upon the Employer's first written demand without cavil or arguments and without requiring the Employer to prove or to show grounds or reasons for such demand any sum or sums up to the amount stated above, against the Employer's _____ written _____ declaration that the Principal has refused or failed to perform the obligations under the Contract which payment will be effected by the Guarantor to Employer's designated Bank & Account Number.

PROVIDED ALSO THAT the Employer shall be the sole and final judge for deciding whether the Principal (Contractor) has duly performed his obligations under the Contractor has defaulted in fulfilling said obligations and the Guarantor shall pay without objection any sum or sums up to the amount stated above upon first written demand from the Employer forthwith and without any reference to the Principal or any other person.

IN WITNESS WHEREOF, the above-bounden Guarantor has executed this Instrument under its seal on the date indicated above, the name and corporate seal of the Guarantor being hereto affixed and these presents duly signed by its undersigned representative, pursuant to authority of its governing body.

Witness:

1. _____
Guarantor (Bank)

(Name, Title, Signature & Seal)

2. _____

(Name, Title, Signature & Seal)

Signature: _____

Name: _____

Title: _____

AFFIDAVIT (on Judicial Stamp Paper)

I/We, the undersigned [Name of the Supplier] hereby solemnly declare and undertake that:

1. I/We have read the contents of the Bidding Document and have fully understood it.
2. The Bid being submitted by the undersigned complies with the requirements enunciated in the bidding documents.
3. The Goods that we propose to supply under this contract are eligible goods within the meaning of this SBD.
4. The undersigned are also eligible Bidders within the meaning of the Standard Bidding Documents.
5. The undersigned are solvent and competent to undertake the subject contract under the Laws of Pakistan.
6. I/We have not paid nor have agreed to pay, any Commissions or Gratuities to any official or agent for SMBB Institute of Trauma related to this Bid or Award or Contract.
7. I/We are not blacklisted or facing debarment from any institute of Federal, Provincial Government or any Department /Agency/Organization/Autonomous body or Private Sector organization anywhere in Pakistan.
8. That undersigned has not employed any child labor in the organization/unit.
9. I/We understand that the Selection and Rate Contracting Committee of the Procuring Agency is not bound to accept the lowest or any other bid they may receive.

I/We affirm that the contents of this affidavit are correct to the best of our knowledge and belief.

Signatures with stamp

Name: _____

Designation: _____

CNIC No. _____ **(Copy must be attached)**

For Messrs. [Name of Supplier]

INTEGRITY PACT

DECLARATION OF FEES, COMMISSION AND BROKERAGE ETC PAYABLE BY THE SUPPLIERS/CONTRACTORS/CONSULTANTS

Contract Number: **NO.**
Contract Value: **Rs.**
Contract Title:

Dated:

M/s. _____ hereby declares that it has not obtained or induced the procurement of any contract, right, interest, privilege or other obligation or benefit from Government of Sindh (GoS) or any administrative subdivision or agency thereof or any other entity owned or controlled by it (GoS) through any corrupt business practice.

Without limiting the generality of the foregoing, **M/s.** _____ represents and warrants that it has fully declared the brokerage, commission, fees etc. paid or payable to anyone and not given or agreed to give and shall not give or agree to give to anyone within or outside Pakistan either directly or indirectly through any natural or juridical person, including its affiliate, agent, associate, broker, consultant, director, promoter, shareholder, sponsor or subsidiary, any commission, gratification, bribe, finder's fee or kickback, whether described as consultation fee or otherwise, with the object of obtaining or inducing the procurement of a contract, right, interest, privilege or other obligation or benefit, in whatsoever form, SMBBIT Karachi (PA), except that which has been expressly declared pursuant hereto.

M/s. _____ certifies that it has made and will make full disclosure of all agreements and arrangements with all persons in respect of or related to the transaction with PA and has not taken any action or will not take any action to circumvent the above declaration, representation or warranty.

M/s. _____ accepts full responsibility and strict liability for making any false declaration, not making full disclosure, misrepresenting facts or taking any action likely to defeat the purpose of this declaration, representation and warranty. It agrees that any contract, right, interest, privilege or other obligation or benefit obtained or procured as aforesaid shall, without prejudice to any other right and remedies available to PA under any law, contract or other instrument, be voidable at the option of PA.

Notwithstanding any rights and remedies exercised by PA in this regard, **M/s.** _____ agrees to indemnify PA for any loss or damage incurred by it on account of its corrupt business practices and further pay compensation to PA in an amount equivalent to ten times the sum of any commission, gratification, bribe, finder's fee or kickback given by **M/s.** _____ as aforesaid for the purpose of obtaining or inducing the procurement of any contract, right, interest, privilege or other obligation or benefit, in whatsoever form, from PA.

M/s. _____

Chief Operating Officer (COO)