

Tender Fee – Rs. 2,000/=

STANDARD BIDDING DOCUMENTS



GOVERNMENT OF SINDH

**SHAHEED MOHTARMA BENAZIR BHUTTO INSTITUTE OF
TRAUMA (SMBBIT).**

TENDER REFERENCE # PROC/SMBBIT/(OTHERS-R&M-02)/2019-20

**PROCUREMENT OF HVAC OTHER ITEMS ON
FRAMEWORK CONTRACT BASIS**

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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 Others Items on Framework Contract Basis. Tender Reference #:- PROC/SMBBIT/ (OTHERS-R&M-02)/2019-20.**
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.

BIDDING DATA

Procuring Agency	:	SMBB Institute of Trauma
Address	:	Chand Bibi Road, Karachi
Name of Item	:	Procurement of HVAC Others Items on Framework Contract Basis
Bid Validity	:	90 Days
Amount of Bid Security	:	2 % of Total Bid Quoted Price
Last date of Selling of Bid	:	As per NIT
Date of Submission of Bid	:	As per NIT
Date of Opening of Bid	:	As per NIT
Venue for Opening & Submission	:	As per NIT
Performance Security	:	5% of Contract Amount
Language of Bid	:	English
Bidding Procedure	:	Single Stage One Envelope Procedure/ SPP rule 46(1)
Advance Payment	:	No Advance Payment
Period of Completion	:	Financial Year 2019-20
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.
Required Item Quality	:	All items will be procured on quality basis of the provided sample. Hence samples should accompany Brochures should also be attached where applicable.
Inspection Authority	:	Nominated Inspection Committee
Place of Delivery	:	Store of SMBB Institute of Trauma

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 Others Items on Framework 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 **“Procurement of HVAC Others 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 2020.

- 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 Procurement Committee.
- 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 NO _____ (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 else offer will be rejected).		
2.	Relevant Experience with documentary proof (Last Three Years). Attach Supply/ Purchase Order/ Award of Contract.		
3.	i) Registration with Income Tax – NTN Certificate. ii) Copy of Professional Tax 2019-20.		
4.	Registration Certificate of General Sales Tax		
5.	Recent Bank Certificate / Bank Statement regarding financial soundness of the firm to do business up till PKR 20 Million.		
6.	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 as attached sample as per Table of Content Point # 11).		
7.	Bidder already providing same services at SMBB-IT should obtain & attach a satisfactory performance certificate from competent authority (for the financial year in which the bidder last provided its services).		
8.	Pay order / Bank Draft of Bid security / Earnest money should be attached along with bidding document.		

NOTE:

1. The offer will not be entertained if the required documents are not found attached.
2. Items will be procured on approved quality/ sample basis; hence bidders are required to submit sample/Brochure/Product Detail/Specification along with bidding documents. (where applicable).
3. Financial proposal must be submitted on company letter head duly signed and stamped. Bidder is required to mention grand total amount in figure and as well as in words.
4. The technical evaluation carried out by the Procurement Committee, SMBB Institute of Trauma, Karachi will be final, which will be assessed on clinical experience basis of the Consultant(s) in the relevant specialty.
5. Specifications approved by the Consultant(s) in the relevant specialty will be considered by the Procurement Committee. (if applicable).
6. Authorization / Distributors Certificates from Manufacturer. (Where Applicable).
7. FDA/CE/DRAP Certificate should be attached. (Where Applicable).

**SCHEDULE OF REQUIREMENT & PRICE FOR SHAHEED
MOHTARMA BENAZIR BHUTTO INSTITUTE OF TRAUMA
TENDER FOR THE “PROCUREMENT OF HVAC OTHERS ITEMS ON
FRAMEWORK CONTRACT BASIS**

S.#	Item #	Description	Size	Unit	Tentative Quantity	Unit Price	Total Price
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A). SPLIT AC's

1	1	Indoor Coil Below Sensor (As per existing at SMBBIT)	2.0 ton	No's	6		
2	2	Indoor Coil Sensor (As per existing at SMBBIT)	2.0 ton	No's	6		
3	3	Indoor Circuit Card (As per existing at SMBBIT)	2.0 ton	No's	1		
4	4	Indoor Blower Motor (As per existing at SMBBIT)	2.0 ton	No's	2		
5	5	Indoor Evaporator Coil (As per existing at SMBBIT)	2.0 ton	Coil	2		
6	6	Outdoor Condenser Coil (As per existing at SMBBIT)	2.0 ton	Coil	3		
7	7	Outdoor Condenser Coil Sensor (As per existing at SMBBIT)	2.0 ton	No's	3		
8	8	Outdoor Condenser Fan Motor (As per existing at SMBBIT)	2.0 ton	No's	2		

B). FLOOR STANDING AC's

9	1	Indoor Coil Below Sensor (As per existing at SMBBIT)	2.0 ton	No's	2		
10	2	Indoor Coil Sensor (As per existing at SMBBIT)	2.0 ton	No's	2		
11	3	Indoor Circuit Card (As per existing at SMBBIT)	2.0 ton	No's	1		
12	4	Indoor Blower Motor (As per existing at SMBBIT)	2.0 ton	No's	2		
13	5	Indoor Washable Filters (As per existing at SMBBIT)	2.0 ton	Set	2		
14	6	Indoor Evaporator Coil (As per existing at SMBBIT)	One 2 & One 4 ton	Coil	2		
15	7	Outdoor Condenser Coil (As per existing at SMBBIT)	One 2 & One 4 ton	Coil	2		

S.#	Item #	Description	Size	Unit	Tentative Quantity	Unit Price	Total Price
16	8	Outdoor Condenser Coil Sensor (As per existing at SMBBIT)	2.0 ton	No's	2		
17	9	Outdoor Condenser Fan Motor (As per existing at SMBBIT)	2.0 ton	No's	2		

C). CASSETTE TYPE AC's

18	1	Indoor Coil Below Sensor (As per existing at SMBBIT)	2.5 ton	No's	2		
19	2	Indoor Coil Sensor (As per existing at SMBBIT)	2.5 ton	No's	2		
20	3	Indoor Circuit Card (As per existing at SMBBIT)	2.5 ton	No's	1		
21	4	Indoor Blower Motor (As per existing at SMBBIT)	2.5 ton	No's	2		
22	5	Indoor Drain Line Pump (As per existing at SMBBIT)	2.5 ton	No's	6		
23	6	Indoor Evaporator Coil (As per existing at SMBBIT)	2.5 ton	Coil	1		
24	7	Outdoor Condenser Coil (As per existing at SMBBIT)	2.5 ton	Coil	1		
25	8	Outdoor Condenser Coil Sensor (As per existing at SMBBIT)	2.5 ton	No's	2		
26	9	Outdoor Condenser Fan Motor (As per existing at SMBBIT)	2.5 ton	No's	2		

D). GENERAL ITEMS USE IN AIR CONDITIONING

27	1	Gas R-22 (Honeywell USA or Equivalent)	13.5 Kg	Cylinder	14		
28	2	Gas R-410-A (Honeywell USA or Equivalent)	11 Kg	Cylinder	12		
29	3	Gas R-134-A (Honeywell USA or Equivalent)	11 Kg	Cylinder	1		
30	4	Gas R-404-A (Honeywell USA or Equivalent)	10.5 Kg	Cylinder	1		
31	5	CTC Flushing Chemical		liter	100		
32	6	1000 Flushing Chemical		liter	100		
33	7	Water Cooler Compressor 1/4 Ton (Make: Danfoss or equivalent) (As per existing at SMBBIT)	1/4 ton	No's	3		

S.#	Item #	Description	Size	Unit	Tentative Quantity	Unit Price	Total Price
34	8	Compressor 2.0 Ton Rotary (As per existing at SMBBIT)	2 ton	No's	6		
35	9	Compressor 2.5 Ton Rotary (As per existing at SMBBIT)	2.5 ton	No's	4		
36	10	Compressor 4.0 Ton Scroll & Rotary (As per existing at SMBBIT)	4.0 ton	No's	4		
37	11	Compressor Relay (As per existing at SMBBIT)	1/8 to 4 ton	No's	12		
38	12	Compressor Over Load (As per existing at SMBBIT)	1/8 to 4 ton	No's	12		
39	13	Capacitor (Make: Fuji or equivalent) 50uf	50uf	No's	12		
40	14	Capacitor (Make: Fuji or equivalent) 60uf	60uf	No's	12		
41	15	Capacitor (Make: Fuji or equivalent) 3.5uf	3.5uf	No's	12		
42	16	Capacitor (Make: Fuji or equivalent) 4.5uf	4.5uf	No's	12		
43	17	Capacitor (Make: Fuji or equivalent) 8.0uf	8.0uf	No's	12		
44	18	Capacitor (Make: Fuji or equivalent) 10uf	10uf	No's	12		
45	19	Capacitor (Make: Fuji or equivalent) 12uf	12uf	No's	12		
46	20	Capacitor (Make: Fuji or equivalent) 16uf	16uf	No's	12		
47	21	Capacitor (Make: Fuji or equivalent) 20uf	20uf	No's	12		
48	22	Starting Capacitor (Make: Fuji or equivalent)	1/2 Hp	No's	10		
49	23	Starting Capacitor (Make: Fuji or equivalent)	1 Hp	No's	10		
50	24	Capacitor (Big Kick / Equivalent)	60uf	No's	10		
51	25	Gas Charging Valve 1/4 (Make: Muller USA / Trox or equivalent)	1/4"	No's	24		
52	26	Gas Charging Valve 1/2 (Make: Muller USA / Trox or equivalent)	1/2"	No's	24		
53	27	Gas Charging Valve 3/8 (Make: Muller USA / Trox or equivalent)	3/8"	No's	24		
54	28	Gas Charging Valve 5/8 (Make: Muller USA / Trox or equivalent)	5/8"	No's	24		

S.#	Item #	Description	Size	Unit	Tentative Quantity	Unit Price	Total Price
55	29	Gas Charging Valve 3/4 (Make: Muller USA / Trox or equivalent)	3/4"	No's	24		
56	30	Copper Gas Charging Leads 1/4 (Make: Muller USA / Trox or equivalent)	1/4"	No's	24		
57	31	Copper Gas Charging Leads 5/16 (Make: Muller USA / Trox or equivalent)	5/16"	No's	12		
58	32	Strainers 1/4 (For Split Ac) (Make: Muller USA / Trox or equivalent)	1/4"	No's	24		
59	33	Strainers 1/4 5Gram (Make: Muller USA / Trox or equivalent) (For Water Cooler)	1/4" 5-Grams	No's	6		
60	34	Strainers 1/4 15Gram (Make: Muller USA / Trox or equivalent) (For Water Cooler)	1/4" 15-Grams	No's	6		
61	35	Strainers 45Gram (Make: Muller USA / Trox or equivalent) (For Water Cooler)	45-Grams	No's	6		
62	36	Strainers 50Gram (Make: Muller USA / Trox or equivalent) (For Water Cooler)	50-Grams	No's	6		
63	37	Copper U Band 1/4 (Make: Muller USA / Trox or equivalent)	1/4"	No's	300		
64	38	Copper U Band 3/8 (Make: Muller USA / Trox or equivalent)	3/8"	No's	300		
65	39	Condenser Fan Motor 10/40 Watt (For Water Cooler)	10/40 Watt	No's	5		
66	40	Flexible Pipe PVC (For Drain Line) (As per existing at SMBBIT)	1/2"	Feet's	300		
67	41	Flexible Pipe PVC (For Drain Line) (As per existing at SMBBIT)	3/4"	Feet's	300		
68	42	Flexible Pipe PVC (For Drain Line) (As per existing at SMBBIT)	1-1/2"	Feet's	300		
69	43	Flexible Pipe PVC (For Drain Line) (As per existing at SMBBIT)	2"	Feet's	300		
70	44	Capillary tube 0/32 (Make: Muller USA / Trox or equivalent)	0/32	Coil	1		
71	45	Capillary tube 0/36 (Make: Muller USA / Trox or equivalent)	0/36	Coil	1		
72	46	Capillary tube 1/32 (Make: Muller USA / Trox or equivalent)	1/32"	Coil	1		

S.#	Item #	Description	Size	Unit	Tentative Quantity	Unit Price	Total Price
73	47	Copper Pipe 50, Feet Coil (Make: Muller USA / Trox or equivalent)	1/4"	Coil	4		
74	48	Copper Pipe 50, Feet Coil (Make: Muller USA / Trox or equivalent)	3/8"	Coil	4		
75	49	Copper Pipe 50, Feet Coil (Make: Muller USA / Trox or equivalent)	1/2"	Coil	4		
76	50	Copper Pipe 50, Feet Coil (Make: Muller USA / Trox or equivalent)	5/8"	Coil	4		
77	51	Copper Pipe 50, Feet Coil (Make: Muller USA / Trox or equivalent)	3/4"	Coil	4		
78	52	Flare Nut Copper (Make: Muller USA / Trox or equivalent)	1/4"	No's	50		
79	53	Flare Nut Copper (Make: Muller USA / Trox or equivalent)	3/8"	No's	50		
80	54	Flare Nut Copper (Make: Muller USA / Trox or equivalent)	1/2"	No's	50		
81	55	Flare Nut Copper (Make: Muller USA / Trox or equivalent)	5/8"	No's	50		
82	56	Flare Nut Copper (Make: Muller USA / Trox or equivalent)	3/4"	No's	50		
83	57	Liquid Line Drier Filter Welded (Make: Alco Controls / Danfoss / Castel or equivalent)	1/4"	No's	10		
84	58	Liquid Line Drier Filter Welded (Make: Alco Controls / Danfoss / Castel or equivalent)	3/8"	No's	10		
85	59	Liquid Line Drier Filter Welded (Make: Alco Controls / Danfoss / Castel or equivalent)	1/2"	No's	5		
86	60	Copper Pipe Aero flux Insulation Best quality	7/8"	Box	6		
87	61	Copper Pipe Aero flux Insulation Best quality	1-1/8"	Box	6		

E). AIR HANDLING UNIT'S

88	1	AHU Blower Motor (Make: Alliance Induction) 3-Phase	1.1 kw	No's	1		
89	2	AHU Blower Motor (Make: Alliance Induction) 3-Phase	1.5 kw	No's	1		

S.#	Item #	Description	Size	Unit	Tentative Quantity	Unit Price	Total Price
90	3	AHU Blower Motor (Make: Alliance Induction) 3-Phase	2.2 kw	No's	1		
91	4	AHU Blower Motor (Make: Alliance Induction) 3-Phase	3.0 kw	No's	1		
92	5	AHU Blower Motor (Make: Alliance Induction) 3-Phase	4.0 kw	No's	1		
93	6	AHU Blower Motor (Make: Alliance Induction) 3-Phase	5.5 kw	No's	1		
94	7	AHU Blower Motor (Make: Alliance Induction) 3-Phase	7.5 kw	No's	1		
95	8	AHU Blower Motor Belt	Spa-1157 Lw	No's	12		
96	9	AHU Blower Motor Belt	Spa-1060 Lw	No's	12		
97	10	AHU Blower Motor Belt	Spa-1320 Lw	No's	12		
98	11	AHU Blower Motor Belt	Spa-1082 Lw	No's	12		
99	12	AHU Blower Motor Belt	Spa-900 Lw	No's	12		
100	13	AHU Blower Motor Belt	Spa-982 Lw	No's	12		
101	14	AHU Blower Motor Belt	Spa-850 Lw	No's	12		
102	15	AHU Blower Motor Belt	Spa-950 Lw	No's	12		
103	16	AHU Blower Motor Belt	Spa-882 Lw	No's	12		
104	17	AHU Blower Motor Belt	Spa-1272 Lw	No's	12		
105	18	AHU Blower Motor Belt	Spa-1000 Lw	No's	12		
106	19	AHU Blower Motor Belt	Spa-1207 Lw	No's	12		
107	20	AHU Blower Motor Belt	B-49	No's	12		
108	21	AHU Blower Motor Belt	A-78	No's	12		
109	22	AHU Blower Motor Belt	A-76	No's	12		
110	23	AHU Blower Motor Belt	AX64LI	No's	12		
111	24	AHU Blower Motor Belt	A-63	No's	12		
112	25	AHU Blower Motor Belt	A-68	No's	12		
113	26	AHU Blower Motor Belt	B-68	No's	12		

S.#	Item #	Description	Size	Unit	Tentative Quantity	Unit Price	Total Price
114	27	AHU Blower Motor Belt	CX-78	No's	12		
115	28	AHU Bearings (Make SKF / NTN or equivalent)	YET - 205	No's	8		
116	29	AHU Bearings (Make SKF / NTN or equivalent)	YET - 206	No's	8		
117	30	AHU Bearings (Make SKF / NTN or equivalent)	YET - 207	No's	8		
118	31	AHU Bearings (Make SKF / NTN or equivalent)	YET - 208	No's	8		
119	32	AHU Bearings (Make SKF / NTN or equivalent)	YET - 209	No's	8		
120	33	AHU Bearings (Make SKF / NTN or equivalent)	YET - 210	No's	8		
121	34	Door Hinges	3"	No's	12		
122	35	Door Handle (As per existing at SMBBIT)	As Per Sample	No's	12		
123	36	Blower Motor Base Spring Isolator (As per existing at SMBBIT)	As Per Sample	No's	12		
124	37	Flexible Duct Connector (Make: Dura Dyne or equivalent)	6" / 100feet's	Roll	3		
125	38	Flexible Duct Connector (Make: Dura Dyne or equivalent)	10" / 100feet's	Roll	3		
126	39	Canvas Connection (As per existing at SMBBIT)	4' W	Feets	500		
127	40	Nut (As per existing at SMBBIT)	10mm	KG	3		
128	41	Bolt (As per existing at SMBBIT)	10mm	KG	3		
129	42	Timer Multi Min to Sec 8-pin (Make: Fotek / Equivalent)	0.5 to 12-Amp	No's	10		
130	43	Breaker 2-Pole (Hager or equivalent)	20 - Amp	No's	12		
131	44	Breaker TP Terasaki or equivalent	32 - Amp	No's	12		
132	45	Magnetic Contactor with Auxiliry Contact Terasaki TC-12 or equivalent	32 - Amp	No's	6		
133	46	E O C R (Make: Schneider / Equivalent)	5 to 70	No's	6		
134	47	E O C R (Make: Schneider / Equivalent)	0.5 to 6.5-Amp	No's	6		

S.#	Item #	Description	Size	Unit	Tentative Quantity	Unit Price	Total Price
135	48	Cooling Coil (As per existing at SMBBIT)	258,83 KW 38.22 TON	Coil	1		

F). FRESH AIR HANDLING UNIT'S

136	1	FA-AHU Blower Motor (Make: AC-Motoren) GMBH/D-64859 (As per existing at SMBBIT)	11.00/13.2 kw	No's	1		
137	2	FA-AHU Blower Motor (Make: IE2-Motoren) D-64859 (As per existing at SMBBIT)	4.0/4.6 kw	No's	1		
138	3	FA-AHU Blower Motor (Make: IE2-Motoren) D-64859 (As per existing at SMBBIT)	5.5 kw	No's	1		
139	4	FA-AHU Blower Motor (Make: IE2-Motoren) D-64859 (As per existing at SMBBIT)	7.5 kw	No's	1		

G). FAN COIL UNIT'S WALL MOUNTED, CEILING MOUNTED, HANGING MOUNTED

140	1	FCU Motorize Valve 3 Way 2 (Make: Honeywell / Equivalent) (As per existing at SMBBIT)	1/2"	No's	6		
141	2	FCU Motorize Valve 3 Way 2 (Make: Honeywell / Equivalent) (As per existing at SMBBIT)	3/4"	No's	6		
142	3	FCU Motorize Valve 3 Way 2 (Make: Honeywell / Equivalent) (As per existing at SMBBIT)	1"	No's	6		
143	4	Wall Mounted FCU Motor With Blower (MCQUAY) (As per existing at SMBBIT)	As Per Sample	No's	2		
144	5	Wall Mounted FCU Evaporator Coil (MCQUAY) (As per existing at SMBBIT)	4.54 KW 15500 BTU/Hr	Coil	2		
145	6	Wall Mounted FCU Circuit Card MWM20LM - ACHDA - R (Make: MCQUAY) (As per existing at SMBBIT)	MWM20L M - ACHDA - R (Make: MCQUAY)	No's	2		
146	7	Hanging Mounted FCU Motor With Blower (MCQUAY) (As per existing at SMBBIT)	As Per Sample	No's	1		

S.#	Item #	Description	Size	Unit	Tentative Quantity	Unit Price	Total Price
147	8	Hanging Mounted FCU Evaporator Coil (MCQUAY) (As per existing at SMBBIT)	7.21 KW 24600 BTU/Hr	Coil	1		
148	9	Hanging Mounted FCU Circuit Card (As per existing at SMBBIT)	MCM030D W - AXDI - R (Make: MCQUAY)	No's	2		
149	10	Ceiling Mounted FCU Motor With Blower (MCQUAY) (As per existing at SMBBIT)	As Per Sample	No's	2		
150	11	Ceiling Mounted FCU Evaporator Coil (MCQUAY) (As per existing at SMBBIT)	13.10 KW 44700 BTU/Hr	Coil	2		
151	12	Ceiling Mounted FCU Circuit Card (As per existing at SMBBIT)	MCC050C W - ACAAA-R (Make: MCQUAY)	No's	2		
152	13	Thermostat For Ceiling Mounted FCU (Make: Honeywell / Equivalent) (As per existing at SMBBIT)	As Per Sample	No's	6		

H). COOLING TOWER

153	1	Bearings Primary Chilled Water Pump (Make: SKF / NTN / Equivalent) (As per existing at SMBBIT)	DE/NE 6215 - ZC3	No's	6		
154	2	Centrifugal Pump With Shaft Seal (Make: KSB / Etanorm / Equivalent) (As per existing at SMBBIT)	ETN 200- 150-315 / GBA11G D505500	No's	1		
155	3	Cooling Tower Fan Motor (Make: Siemens) 3-phase 10hp (As per existing at SMBBIT)	7.5 kw	No's	1		
156	4	Cooling Tower Fan Motor Belt (As per existing at SMBBIT)	B-146	No's	40		
157	5	Breaker (Make: Terasaki XE - 100 NS 3-Pole) (As per existing at SMBBIT)	30 Amp	No's	3		
158	6	Breaker (Make: Terasaki XE-100 NS 3-Pole) (As per existing at SMBBIT)	20 Amp	No's	3		
159	7	E O C R (Make: Schneider / Equivalent) (As per existing at SMBBIT)	0.5/6.5 Amp	No's	5		

S.#	Item #	Description	Size	Unit	Tentative Quantity	Unit Price	Total Price
160	8	Breaker (Make: Terasaki 2 Pole) (As per existing at SMBBIT)	6 Amp	No's	2		
161	9	Breaker (Make: Terasaki 2 Pole) (As per existing at SMBBIT)	10 Amp	No's	2		
162	10	Breaker (Make: Terasaki 2 Pole) (As per existing at SMBBIT)	16 Amp	No's	12		
163	11	Breaker (Make: Terasaki 2 Pole) (As per existing at SMBBIT)	20 Amp	No's	12		
164	12	Filling Fins A & B Set (As per existing at SMBBIT)	A Side L-77.5" x W-20"	No's	200		
165	13	Filling Fins A & B Set (As per existing at SMBBIT)	B Side L-77.5" x W-20"	No's	200		
166	14	Filling Fins A & B Set (As per existing at SMBBIT)	A Side L-65.5" x W-20"	No's	150		
167	15	Filling Fins A & B Set (As per existing at SMBBIT)	B Side L-65.5" x W-20"	No's	150		
168	16	Filling Fins A & B Set (As per existing at SMBBIT)	A Side L-19" x W-20"	No's	100		
169	17	Filling Fins A & B Set (As per existing at SMBBIT)	B Side L-19" x W-20"	No's	100		
170	18	Fan Blade (As per existing at SMBBIT)	-	No's	1		

I). GENERAL ITEMS

171	1	Octyl Alcohol (As per existing at SMBBIT)	-	Liter	20		
172	2	Inhibitor (As per existing at SMBBIT)	-	Liter	20		
173	3	Lithium Molybdate (As per existing at SMBBIT)	-	Kg	20		
174	4	Lithium Bromide Solution (As per existing at SMBBIT)	-	Liter	20		
175	5	De-Scaler Chemical (As per existing at SMBBIT)	-	Liter	200		
176	6	AHU Coil Cleaning Chemical (As per existing at SMBBIT)	-	Liter	300		

S.#	Item #	Description	Size	Unit	Tentative Quantity	Unit Price	Total Price
177	7	Wire Flexible 2,Core 1.5mm 90,Meter Coil Pakistan Cable (Copper) (As per existing at SMBBIT)	1.5mm	Coil	1		
178	8	Wire Flexible 2,Core 2.5mm 90,Meter Coil Pakistan Cable (Copper) (As per existing at SMBBIT)	2.5mm	Coil	1		
179	9	Wire 4,Core 4,mm 90,Meter Coil Pakistan Cable (Copper) (Conforming To Existing At Site)	4mm	Coil	1		
180	10	Wire 3,Core 110/76 Flexible 90,Meter Coil Pakistan Cable (Copper) (Conforming To Existing At Site)	110/76	Coil	2		
181	11	Wire 3,Core 23/76 Flexible 90,Meter Coil Pakistan Cable (Copper) (Conforming To Existing At Site)	23/76	Coil	2		
182	12	Cable 4,Core 90,Meter Coil Pakistan Cable (Copper) (Conforming To Existing At Site)	6mm	Coil	1		
183	13	Rowel Bolt 8mm	8mm	No's	50		
184	14	Rowel Bolt 10mm	10mm	No's	50		
185	15	Rowel Bolt 12mm	12mm	No's	50		
186	16	Rowel Bolt 14mm	14mm	No's	50		
187	17	Rowel Bolt 16mm	16mm	No's	50		
188	18	GI Sheet 26 Gauge in Roll form	26 Gauge	KG	1500		
189	19	Lugs Pin Type	1.5mm	Packet	2		
190	20	Lugs Pin Type	2.5mm	Packet	2		
191	21	Lugs Pin Type	4mm	Packet	2		
192	22	Lugs U Type	1.5mm	Packet	2		
193	23	Lugs U Type	2.5mm	Packet	2		
194	24	Lugs U Type	4mm	Packet	2		
195	25	Lugs U Type	6mm	Packet	1		
196	26	Lugs U Type	8mm	Packet	1		
197	27	Lugs O Type	1.5mm	Packet	2		
198	28	Lugs O Type	2.5mm	Packet	2		

S.#	Item #	Description	Size	Unit	Tentative Quantity	Unit Price	Total Price
199	29	Lugs O Type	4mm	Packet	2		
200	30	Lugs O Type	6mm	Packet	1		
201	31	Panel Connector (Terminal Block)	6 Amp	No's	200		
202	32	Glass Whole 2" Thickness 1.2m Width High Density Aluminum Foil/ Kraft Laminate Facing(FSK) 45 Meter Roll (Make: KIMMCO) (As per existing at SMBBIT)	45 Meter	Roll	6		
203	33	Teflon Tape		No's	250		
204	34	Duct Sealer Solution	5 Kg	Cane	15		
205	35	Thread Rod	10mm/2meter	Rods	60		
206	36	Thread Rod	12mm/2meter	Rods	60		
207	37	Nut With Washer	10mm	KG	2		
208	38	Nut With Washer	12mm	KG	2		
209	39	Glass Fuse	1 Amp	Box	10		
210	40	Glass Fuse	3 Amp	Box	10		
211	41	Glass Fuse	6 Amp	Box	10		
212	42	Indication Lights Red	10 piece	Box	5		
213	43	Indication Lights Yellow	10,piece	Box	5		
214	44	Indication Lights Blue	10,piece	Box	5		
215	45	Indication Lights Green	10,piece	Box	5		
216	46	Cable Tie 4"	4"	Packet	6		
217	47	Cable Tie 6"	6"	Packet	6		
218	48	Cable Tie 8"	8"	Packet	6		
219	49	Cable Tie 10"	10"	Packet	6		
220	50	Cable Tie 12"	12"	Packet	6		
221	51	WD-40 330ml	330 ML	No's	250		
222	52	CRC 300ml	300 ML	No's	100		
223	53	Gas Pressure Gauge 0 to 10 Bar/Psi	0 to 10 Bar/Psi	No's	3		
224	54	Emery Paper	0 - No	No's	100		
225	55	Emery Paper	0.5 No	No's	100		
226	56	Emery Paper	1.0 No	No's	100		

S.#	Item #	Description	Size	Unit	Tentative Quantity	Unit Price	Total Price
227	57	Emery Paper	1.5 No	No's	100		
228	58	Emery Paper	2.0 No	No's	100		
229	59	Aero Flux Sheet 1x4'x9 meter	1x4'x9	Roll	10		
230	60	Aero Flux Sheet 1/2"x4'x9 meter	1/2"x4'x9	Roll	10		
231	61	Abro Tape 2"	2"	No's	200		
232	62	Abro Tape 1"	1"	No's	100		
233	63	Vacuum Pump Oil (Make: Robin Air / Equivalent)	3.75 Liter	Gallon	8		
234	64	Paint Brush 2"	2"	No's	25		
235	65	Paint Brush 3"	3"	No's	25		
236	66	Paint Brush 4"	4"	No's	25		
237	67	Mixing Oil Superior Quality	10 - Liter	Cane	30		
238	68	Thinner Superior Quality	10 - Liter	Cane	30		
239	69	Epoxy Grey Paint Superior Quality	3.75 Liter	Gallon	15		
240	70	Red Paint Superior Quality	3.75 Liter	Gallon	1		
241	71	Yellow Paint Superior Quality	3.75 Liter	Gallon	2		
242	72	Blue Oxford Paint Superior Quality	3.75 Liter	Gallon	20		
243	73	Gray Dark Paint Superior Quality	3.75 Liter	Gallon	15		
244	74	Gray Smoke Paint Superior Quality	3.75 Liter	Gallon	15		
245	75	Blue Comet Paint Superior Quality	3.75 Liter	Gallon	15		
246	76	Black Paint Superior Quality	3.75 Liter	Gallon	10		
247	77	Green Paint Superior Quality	3.75 Liter	Gallon	30		
248	78	White Paint Superior Quality	3.75 Liter	Gallon	10		
249	79	Red Oxide Paint Superior Quality	3.75 Liter	Gallon	40		
250	80	Blue Oxford Gray Dark Paint Superior Quality	3.75 Liter	Gallon	10		
251	81	Anti Fungus Paint With Mixing Oil Superior Quality	11 Liter	Cane	25		
252	82	Yellow Oil Paint Superior Quality	3.75 Liter	Gallon	2		
253	83	White Oil Paint Superior Quality	3.75 Liter	Gallon	4		
254	84	Garden Pipe 1" High Pressure	1"	Feet's	100		
255	85	Duct Tape Superior Quality	2"	No's	500		
256	86	Insulation Tape 2" (Black)	2"	No's	800		

S.#	Item #	Description	Size	Unit	Tentative Quantity	Unit Price	Total Price
257	87	Pvc Tape Red	3/4"	No's	100		
258	88	Pvc Tape Yellow	3/4"	No's	50		
259	89	Pvc Tape White	3/4"	No's	12		
260	90	Pvc Tape Blue	3/4"	No's	12		
261	91	Pvc Tape Black	3/4"	No's	100		
262	92	Silicon Tube Clear RTV	300ml	No's	500		
263	93	Cementex Solution	1 Kg	kg	5		
264	94	Carbon Steel Nut ,Bolts with double washer	8mm	kg	5		
265	95	Carbon Steel Nut ,Bolts with double washer	10 mm	kg	2		
266	96	Carbon Steel Nut ,Bolts with double washer	12 mm	kg	2		
267	97	Carbon Steel Nut ,Bolts with double washer	14 mm	kg	2		
268	98	Carbon Steel Nut ,Bolts with double washer	16 mm	kg	2		
269	99	Cycle Screws	3/16"	100,Piece Box	10		
270	100	Cut Screws Wooden	1/2" X 7	100,Piece Box	10		
271	101	Cut Screws Wooden	3/4 X 6"	100,Piece Box	10		
272	102	Cut Screws Wooden	1/2 X 6"	100,Piece Box	10		
273	103	Cut Screws Wooden	1" X 8"	100,Piece Box	10		
274	104	Cut Screws Wooden	1" X 10"	100,Piece Box	10		
275	105	Cut Screws Wooden	1-1/2" X 10"	100,Piece Box	10		
276	106	Cut Screws Wooden	1-1/4" X 10"	100,Piece Box	10		
277	107	Cut Screws Wooden	1-1/4 X 8"	100,Piece Box	10		
278	108	Cut Screws Wooden	2" X 7	100,Piece Box	10		
279	109	Cut Screws Wooden	2" X 8	100,Piece Box	10		
280	110	Cut Screws Wooden	2-1/2 X 10	100,Piece Box	10		
281	111	Cut Screws Wooden	3 X 10	100,Piece Box	10		
282	112	Cut Screws SS	3/16"	100,Piece Box	10		

S.#	Item #	Description	Size	Unit	Tentative Quantity	Unit Price	Total Price
283	113	Cut Screws SS	1/2" X 7	100,Piece Box	10		
284	114	Cut Screws SS	3/4 X 6"	100,Piece Box	10		
285	115	Cut Screws SS	1/2 X 6"	100,Piece Box	10		
286	116	Cut Screws SS	1" X 7"	100,Piece Box	10		
287	117	Cut Screws SS	1" X 10"	100,Piece Box	10		
288	118	Cut Screws SS	1-1/2" X 10"	100,Piece Box	10		
289	119	Cut Screws SS	1-1/4" X 10"	100,Piece Box	10		
290	120	Cut Screws SS	1-1/4 X 8"	100,Piece Box	10		
291	121	Cut Screws SS	2" X 7	100,Piece Box	10		
292	122	Cut Screws SS	2" X 8	100,Piece Box	10		
293	123	Cut Screws SS	2-1/2 X 10	100,Piece Box	10		
294	124	Cut Screws SS	3 X 10	100,Piece Box	10		
295	125	Screws With Nut & Washer	3mm	100,Piece Box	10		
296	126	Screws With Nut & Washer	4mm	100,Piece Box	10		
297	127	Screws With Nut & Washer	5mm	100,Piece Box	10		
298	128	Screws With Nut & Washer	6mm	100,Piece Box	10		
299	129	Screws With Nut & Washer	8mm	100,Piece Box	10		
300	130	Screws With Nut & Washer	10mm	100,Piece Box	10		
301	131	High Temperature Gas Kit 5mm	4 X 6 Feet	Roll	4		
302	132	Rivet Gun		No's	2		
303	133	Pop Rivet	1.5mm	Box	5		
304	134	Pop Rivet	2mm	Box	5		
305	135	Pop Rivet	3mm	Box	5		
306	136	Pop Rivet	4mm	Box	5		
307	137	White Spray Paint Superior Quality	400 - CC	Cane	50		

S.#	Item #	Description	Size	Unit	Tentative Quantity	Unit Price	Total Price
308	138	Yellow Spray Paint Superior Quality	400 - CC	Cane	20		
309	139	Blue Spray Paint	400 - CC	Cane	25		
310	140	Black Spray Paint	400 - CC	Cane	50		
311	141	Off-White Spray Paint	400 - CC	Cane	25		
312	142	Leaker Spray Paint	400 - CC	Cane	25		
313	143	Epoxy Spray Paint	400 - CC	Cane	25		
314	144	Epoxy Solution Fins Pasting	2	kg	10		
315	145	Glycerin Solution	1	kg	10		
316	146	Foam Spray	400 - CC	Cane	60		
317	147	Chilled Water Pipe Insulation Cloth	100	Meter	100		
318	148	Glue For Pasting Chilled Water Pipe Insulation Cloth	50	kg	1		
319	149	Holdtight Solution		Cane	10		
320	150	Thread Rope		Roll	50		
321	151	Cotton Rope For Lifting Use 150-Feet's	16mm	Feet's	50		
322	152	Elfee Solution	100ml	Tube	24		
323	153	Epoxy Steel ES-9191: 59 GRAMS (Make: Magic / Equivalent)	59 Grams	Tube	50		
324	154	Depoxy Steel ES-9191: 59 GRAMS (Make: Magic / Equivalent)	59 Grams	Tube	50		
325	155	Epoxy Bond Standard (Make: Magic / Equivalent)	1 Liter	Cane	50		
326	156	High-Temp Red Silicone Sealant (Make: Magic / Equivalent)	20 Grams	Tube	50		
327	157	Welding Rods (Made: SS/MS) (As per existing at SMBBIT)	10,No	Box	4		
328	158	Welding Rods (Made: SS/MS) (As per existing at SMBBIT)	12,No	Box	4		
329	159	Steel Nail	1"	Box	4		
330	160	Steel Nail	1-1/2"	Box	4		
331	161	Steel Nail	2"	Box	4		
332	162	Wood Fisher		Box	12		

J). BMS

333	1	Duct Type Temperature Sensor With Polycrab Enclosure Air Temperature (Make: Mamac) (As per existing at SMBBIT)	TE-702-A-X	No's	12		
334	2	Immersion Temperature Sensor With Polycrab Enclosure (Make: Mamac) (As per existing at SMBBIT)	TE-703-B-X	No's	20		
335	3	Sensor With Set point, Override & Controller Mode Function With Remote (Make: Schneider) (As per existing at SMBBIT)	MN-S4HT	No's	8		

S.#	Item #	Description	Size	Unit	Tentative Quantity	Unit Price	Total Price
336	4	3% Duct/Outdoor Transducer Duct Humidity Sensor (Make: Mamac) (As per existing at SMBBIT)	HU-224	No's	4		
337	5	Duct Smoke Detector Photoelectric Type (Make: Air Product & Controls) (As per existing at SMBBIT)	SL-2000-N/P	No's	2		
338	6	Fan Start/Stop Relay (Make: Schneider RXM3AB) (As per existing at SMBBIT)	24volt AC	No's	25		
339	7	Air Flow Switch Range 20~200Pa Switching Differential 10Pa (Make: ECP-930.80.222111) (As per existing at SMBBIT)	20-200Pa	No's	10		
340	8	Pressure Transducer (Make: Mamac) (As per existing at SMBBIT)	PR-274	No's	3		
341	9	BACnet DDC Controller (Make: Schneider) (As per existing at SMBBIT)	MNB-70	No's	12		
342	10	BACnet DDC Controller (Make: Schneider) (As per existing at SMBBIT)	MNB-300	No's	6		
343	11	CT Switch Fixed Set point (Make: Mamac CT-800) (As per existing at SMBBIT)	1 Amp	No's	6		
344	12	Step Down Transformer (As per existing at SMBBIT)	XFMR	No's	15		
345	13	Power Supply Card (Make: Local PS-01) (As per existing at SMBBIT)	24volt AC/DC	No's	15		
346	14	DUI Expender (As per existing at SMBBIT)	DUI	No's	7		
347	15	24 Awg 2-Core With Shield Control Cable (Make: Belden) (As per existing at SMBBIT)	5300FE or Equivalent	Rft	1000		
348	16	Shield Controls Cable 2-Core (Make: Belden/Global) (As per existing at SMBBIT)	9841/FSC	Rft	1000		
349	17	Flexible Power Cable 3-Core (Make: Pakistan Cable) (As per existing at SMBBIT)	1.5 mm	Rft	1000		
350	18	Breaker 2-Pole (Make: Kripel) (As per existing at SMBBIT)	6 Amp	No's	4		

S.#	Item #	Description	Size	Unit	Tentative Quantity	Unit Price	Total Price
351	19	Chilled Water Actuator (Make: Schneider) (As per existing at SMBBIT)	VS-2213-841-9-85	No's	2		
352	20	Variable Frequency Drive (Make: Vacon Flow/Schneider) (As per existing at SMBBIT)	6 Kw	No's	4		
353	21	Variable Frequency Drive (Make: Schneider ATV-212) (As per existing at SMBBIT)	45 Kw	No's	3		
354	22	Pressure Transmitter (Make: Danfoss MBS-3000) (As per existing at SMBBIT)	0 to 25 bar	No's	2		
355	23	Plant Controller With Remote I/O Module (Make: Schneider) (As per existing at SMBBIT)	MNB-1000	No's	1		
356	24	Thermostat (Make: Rainbow Made In Korea) TS-120sb / OC-120C / P-TS00640 I5/48 15C 44 (As per existing at SMBBIT)	20 Amp / 220 V	No's	4		
357	25	Breaker 3-Pole (Make: Schneider) (As per existing at SMBBIT)	32 Amp	No's	8		
358	26	magnetic Contactor With Auxiliry Contact (Make: Schneider) (As per existing at SMBBIT)	32 Amp	No's	8		
359	27	Relay 8-pin (Make: Schneider) (As per existing at SMBBIT)	220 Vac	No's	10		
360	28	Timer 8-pin (Make: Panasonic) (As per existing at SMBBIT)	220 Vac	No's	10		
361	29	Relay 8-pin (Make: Schneider) (As per existing at SMBBIT)	24 Vdc	No's	10		
362	30	Breaker 3-Pole (Make: Schneider) (As per existing at SMBBIT)	120 Amp	No's	1		
363	31	Magnetic Contactor With Auxiliry Contact (Make: Schneider) (As per existing at SMBBIT)	60 Amp	No's	4		
364	32	Breaker 1-Pole (Make: Schneider) (As per existing at SMBBIT)	10 Amp	No's	12		
365	33	Integation Light Auto & Manual (As per existing at SMBBIT)	As Per Sample	No's	48		

S.#	Item #	Description	Size	Unit	Tentative Quantity	Unit Price	Total Price
366	34	Element Heater (Conforming To Existing At Site)	2000 Watt	Feet	50		
367	35	Element Heater (Conforming To Existing At Site)	2500 Watt	Feet	50		
368	36	Element Heater (Conforming To Existing At Site)	3000 Watt	Feet	50		
369	37	Connector Pros Lean (Conforming To Existing At Site)	50 Amp	No's	100		
370	38	Connector Pros Lean (Conforming To Existing At Site)	100 Amp	No's	100		
371	39	Heat Proof Sleeve 2.No,3.No,4.No & 5.No (Conforming To Existing At Site)		Feets	250		
372	40	Heat Proof Wire (Conforming To Existing At Site)	2.5mm	Coil	2		
373	41	Heat Proof Wire (Conforming To Existing At Site)	4mm	Coil	2		
374	42	Selectors Auto & Manual (Make: Mamac) (As per existing at SMBBIT)	As Per Sample	No's	24		
375	43	Heat Sensor For Safety (As per existing at SMBBIT)	As Per Sample	No's	10		
376	44	Thermostat For Safety Power Cut Off (As per existing at SMBBIT)	As Per Sample	No's	10		
377	45	Relay 11-pin (Make: Schneider) (As per existing at SMBBIT)	220 Vac	No's	10		
378	46	Flow Switch (As per existing at SMBBIT)	As Per Sample	No's	2		

K). PLANT ROOM / PRIMARY CHILLED WATER PUMP

379	1	Bearings Primary Chilled Water Pump (Make: SKF / NTN / Equivalent)	DE/NE 6212 - ZC3	No's	6		
380	2	Centrifugal Pump With Shaft Seal (Make: KSB / Etanorm / Equivalent)	ETN 150- 125-315 / GBA11G D50300	No's	1		
381	3	Pump Coupling Rubber (As per existing at SMBBIT)	As Per Sample	No's	48		

S.#	Item #	Description	Size	Unit	Tentative Quantity	Unit Price	Total Price
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L). SECONDARY CHILLED WATER PUMP

382	1	Bearings Primary Chilled Water Pump (Make: SKF / NTN / Equivalent)	DE/NE 6213 - ZC3	No's	6		
383	2	Centrifugal Pump With Shaft Seal (Make: KSB / Etanorm / Equivalent)	ETN 150- 175-400 / GB-A 11GD5045 0	No's	1		
384	3	Breaker 3-Pole (Make: Terasaki S 160 - SCF) (As per existing at SMBBIT)	160 Amp	No's	3		
385	4	Magnetic Contactor With Auxiliry Contact (Make: Terasaki TC-85) (As per existing at SMBBIT)	85/135 Amp	No's	6		
386	5	Magnetic Contactor With Auxiliary Contact (Make: Terasaki TC-150) (As per existing at SMBBIT)	150/210 Amp	No's	6		
387	6	Pump Coupling Rubber (As per existing at SMBBIT)	As Per Sample	No's	48		

M). KAWASAKI SIGMA ACE DIRECT FIRED ABSORPTION CHILLER (E-TEC-500DN9C)

388	1	Refrigerant Pump (As per existing at SMBBIT)	Model # LY-152F4- 0305R2-B	No's	1		
389	2	Low Temperature Solution Pump (As per existing at SMBBIT)	Item: X21030 Model: S291-2- 2cB-y56	No's	1		
390	3	High Temperature Solution Pump (As per existing at SMBBIT)	Item: X21040 Model: SS233-1- 50B	No's	1		
391	4	Purge Pump (G-10D) (As per existing at SMBBIT)	Model 10DA - KP- 2854-02	No's	1		
392	5	Gasket For Absorber, Evaporator And Condenser (As per existing at SMBBIT)	As Per Sample	Set	1		
393	6	Microprocessor Card (As per existing at SMBBIT)	KTE: I02 P01 KTE: D01-PO3R KTE: FLG- PO1	Set	1		

S.#	Item #	Description	Size	Unit	Tentative Quantity	Unit Price	Total Price
394	7	Temperature Sensor (Thermistor) (As per existing at SMBBIT)	As Per Sample	Set	1		
395	8	Exhaust Gas Temperature Sensor (As per existing at SMBBIT)	As Per Sample	No's	1		
396	9	Pressure Switch (Furnace Pressure & Gas Pressure) (As per existing at SMBBIT)	Model C6097A021 0PFO	Set	1		
397	10	Fuse (As per existing at SMBBIT)	5-Amp	Set	1		
398	11	Relay (Thermal Relay) (As per existing at SMBBIT)	OMRON MY2-02 200/220 Vac	Set	1		
399	12	Flame Detector (As per existing at SMBBIT)	Model C7035A106 4/U	No's	1		
400	13	Ignition Transformer Oil (As per existing at SMBBIT)	Model G7023ZC	No's	1		
401	14	Ignition Electrode Oil (As per existing at SMBBIT)	CLGH -16	No's	2		
402	15	Pilot Solenoid Valve With Regulator (As per existing at SMBBIT)	Model YS311TF94 N9CF5Y01 2	No's	2		
403	16	Diaphragm Valve (As per existing at SMBBIT)	-		2		
404	17	Diaphragm For Diaphragm Valve (As per existing at SMBBIT)	Model DV-15	No's	1		
405	18	Control Motor (As per existing at SMBBIT)	Model ECM3000G 9110	No's	1		
406	19	No,1 & No,2 Shut-off Valve (As per existing at SMBBIT)	Model VGV26 04012	Set	1		
407	20	Purge Tank Pressure Sensor (As per existing at SMBBIT)	Model FA-858-102A-FC	No's	1		
408	21	Touch Screen Panel S/N 74207-00003 Micro/I MK1430 IDEC Corporation Type: HG2G-5ST22VF-S 12 to 24v Dc 8w Class-2 (Made: In Japan) (As per existing at SMBBIT)	Type: HG2G-5ST22VF-S 12 to 24v Dc	Set	1		

S.#	Item #	Description	Size	Unit	Tentative Quantity	Unit Price	Total Price
409	22	Cosel-3471399 CR DC-Converter ZUM150512 5v 12v +24v 0.6amp (As per existing at SMBBIT)	5v 12v +24v 0.6amp	No's	1		
410	23	Circuit (1) KTE-IO2 P DIA 1 - 916PA140407 (As per existing at SMBBIT)	KTE-IO2 P DIA 1 - 916PA1404 07	No's	1		
411	24	Circuit (2) KTE-D01 P DIA 3R - 916PA140407 (As per existing at SMBBIT)	KTE-D01 P DIA 3R - 916PA1404 07	No's	1		
412	25	Circuit (2) KTE-FLG-P01- 916PA140407 (As per existing at SMBBIT)	KTE-FLG- P01- 916PA1404 07	No's	1		
413	26	Relay MY3-02 200/220vac (Make:OMRON) (As per existing at SMBBIT)	MY3-02 200/220vac	No's	1		
414	27	Relay MYUN-TU 200/220vac (Make:OMRON) (As per existing at SMBBIT)	MYUN-TU 200/220vac	No's	1		
415	28	Switch ON/OFF CIRCUIT Protection CP-C BAC-201505 AC-220 IC 2 5ka 5a (Make:Panasonic) (As per existing at SMBBIT)	AC-220 IC 2 5ka 5a	No's	1		
416	29	Transformer KD07-002 Capacity 1 Dia 50/60hz 500va Pri. VTG 440-415 400 - 500va Sec VTG 200/220 (As per existing at SMBBIT)	VTG 440- 415 400 - 500va Sec VTG 200/220	No's	1		
417	30	Fuse FC141 BLA 010 PS E F 600v 10amp (As per existing at SMBBIT)	600v 10amp	No's	1		
418	31	FUJI ELECTRIC SC-03(11) CONTACTOR 120V COIL- TR-0N/3 OVERLOAD RELAY 1.7-2.6A 220- 440v (As per existing at SMBBIT)	1.7-2.6A 220-440v	No's	1		
419	32	FUJI ELECTRIC SC-0 2.7/3.5 kw CONTACTOR 120V COIL- TR-0N/3 OVERLOAD RELAY 1.7-2.6A 220- 440v (As per existing at SMBBIT)	1.7-2.6A 220-440v	No's	1		

S.#	Item #	Description	Size	Unit	Tentative Quantity	Unit Price	Total Price
420	33	FUJI ELECTRIC SC-04 3.7/4.5 CONTACTOR 120V COIL- TR-0N/3 OVERLOAD RELAY 1.7-2.6A 220-440v (As per existing at SMBBIT)	1.7-2.6A 220-440v	No's	1		

N). SHUANGLIANG DIRECT FIRED ABSORPTION CHILLER (YRBX-450-Y1Q11) YXPA-1002

421	1	Touch Screen (Compatible with existing Chiller at SMBBIT)	AM08020 018	No's			
422	2	Touch Screen Battery (Compatible with existing Chiller at SMBBIT)	OMRON - CR14250S E-R (3v) CJ1W- BAT01	No's	0		
423	3	Temperature Module (Compatible with existing Chiller at SMBBIT)	AM08030 024	No's	4		
424	4	Expansion Card (Compatible with existing Chiller at SMBBIT)	AM08030 005	No's	1		
425	5	Gasket For Absorber, Evaporator And Condenser (As per existing at SMBBIT)	As Per Sample	Set	1		
426	6	Input / Output Unit (Compatible with existing Chiller at SMBBIT)	AM08030 011	No's	0		
427	7	Ns Touch Screen Battery (PLC Controller Battery) (Compatible with existing Chiller at SMBBIT)	AM08260 009	No's	0		
428	8	Valve Core (Compatible with existing Chiller at SMBBIT)	AM07180 010	No's	4		
429	9	Valve Core (Compatible with existing Chiller at SMBBIT)	AM07180 012	No's	4		
430	10	Burner Programmer (Compatible with existing Chiller at SMBBIT)	AM06060 322	No's			
431	11	Flame Sensor (Compatible with existing Chiller at SMBBIT)	AM06060 108	No's	2		
432	12	Leakage Detector (Compatible with existing Chiller at SMBBIT)	AM06060 026	No's			
433	13	Air Pressure Switch (Compatible with existing Chiller at SMBBIT)	AM06060 109	No's	2		

S.#	Item #	Description	Size	Unit	Tentative Quantity	Unit Price	Total Price
434	14	Platinum Resistor (Compatible with existing Chiller at SMBBIT)	AM08050 153	No's	2		
435	15	Platinum Resistor (Compatible with existing Chiller at SMBBIT)	AM08050 154	No's	2		
436	16	Corrugation Pipe O Ring (Compatible with existing Chiller at SMBBIT)	AM21990 314	No's	2		
437	17	High Vacuum Valve DN-25 Complete	DN-25	No's	3		
438	18	35 Auto Purging Unit Solenoid Valve (Compatible with existing Chiller at SMBBIT)	AM07140 023	No's	2		
439	19	Level Electrodes	BS-01	No's	4		
440	20	Pressure Sensor/ Transducer	PT- 8303BH	No's	4		
441	21	Signal Exchanger	As Per Sample	No's	2		
442	22	Inverter ATV (Compatible with existing Chiller at SMBBIT)	32055N4B AM08090 148	No's	1		
443	23	Servomotor (Compatible with existing Chiller at SMBBIT)	AM20050 165	No's	1		
444	24	Platinum Resistor (Compatible with existing Chiller at SMBBIT)	AM08050 155	No's	1		
445	25	Corrugation Pipe (Compatible with existing Chiller at SMBBIT)	D8026- 0048	No's	1		
446	26	Breaker 1-Pole (Make: Schneider) (Compatible with existing Chiller at SMBBIT)	6-Amp	No's	1		
447	27	ULVAC Vacuum Pump (Compatible with existing Chiller at SMBBIT)	AM09020 053	No's	1		
448	28	Solution Pump (Compatible with existing Chiller at SMBBIT)	AM09010 065	No's	1		
449	29	Refrigerant Pump (Compatible with existing Chiller at SMBBIT)	AM09010 210	No's	1		
450	30	magnetic Contactor With Auxiliary Contact Ue/380v Ie/18a LRD07C (Make: Schneider) (Compatible with existing Chiller at SMBBIT)	Ue/380v Ie/18a LRD07C	No's	1		

S.#	Item #	Description	Size	Unit	Tentative Quantity	Unit Price	Total Price
451	31	24 V Transformer (Make: Schneider) (Compatible with existing Chiller at SMBBIT)	(ABL8RE M24030)	No's	1		
452	32	Analog Terminal (Make: OMRON) (Compatible with existing Chiller at SMBBIT)	DRT2- DA02/DA 04	No's	2		
453	33	Analog Terminal (Make: OMRON) (Compatible with existing Chiller at SMBBIT)	DRT2- AD04	No's	2		
454	34	Temperature Input Terminal (Make: OMRON) (Compatible with existing Chiller at SMBBIT)	DRT2- TS04P	No's	4		
455	35	Float less Level 61F-GP-N Source 220Vac Power 3.5va max 50/60hz Sec Voltage 8-vac (Make: OMRON) (Compatible with existing Chiller at SMBBIT)	220Vac Power 3.5va max 50/60hz	No's	1		
456	36	Programmable Controller SYSMAC C- 200HE CPU 42 (Make: OMRON) (Compatible with existing Chiller at SMBBIT)	SYSMAC C-200HE CPU 42	No's	1		
457	37	Relay MY2N-CR-J 220/240vac (Compatible with existing Chiller at SMBBIT)	MY2N- CR-J 220/240va c	No's	1		
458	38	Expansion Port Red Lion (Compatible with existing Chiller at SMBBIT)	Model: DSP M43234	No's	1		

O). VALVES & GAUGES

459	1	Pressure Gauges Liquid Fill 4" Dia 1/2" (Make: WEISS Instruments / Equivalent) (As per existing at SMBBIT)	0 to 160 Psi	No's	20		
460	2	Pressure Gauges Liquid Fill 2" Dia 1/2" (Make: WEISS Instruments / Equivalent) (As per existing at SMBBIT)	0 to 60 Psi	No's	20		
461	3	Union Chilled Water Pipe Threaded & Butt Welded (Make: Econosto Steel Seamless Pipe ASTM 106/A53 Grade 'B' API 5L SCH-40) (As per existing at SMBBIT)	3/4"	No's	20		

S.#	Item #	Description	Size	Unit	Tentative Quantity	Unit Price	Total Price
462	4	Union Chilled Water Pipe Threaded & Butt Welded (Make: Econosto Steel Seamless Pipe ASTM 106/A53 Grade 'B' API 5L SCH-40) (As per existing at SMBBIT)	1"	No's	5		
463	5	Union Chilled Water Pipe Threaded & Butt Welded (Make: Econosto Steel Seamless Pipe ASTM 106/A53 Grade 'B' API 5L SCH-40) (As per existing at SMBBIT)	1 1/4"	No's	5		
464	6	Union Chilled Water Pipe Threaded & Butt Welded (Make: Econosto Steel Seamless Pipe ASTM 106/A53 Grade 'B' API 5L SCH-40) (As per existing at SMBBIT)	1 1/2"	No's	5		
465	7	Union Chilled Water Pipe Threaded & Butt Welded (Make: Econosto Steel Seamless Pipe ASTM 106/A53 Grade 'B' API 5L SCH-40) (As per existing at SMBBIT)	2"	No's	5		
466	8	Union Chilled Water Pipe Threaded & Butt Welded (Make: Econosto Steel Seamless Pipe ASTM 106/A53 Grade 'B' API 5L SCH-40) (As per existing at SMBBIT)	2 1/2"	No's	5		
467	9	Union Chilled Water Pipe Threaded & Butt Welded (Make: Econosto Steel Seamless Pipe ASTM 106/A53 Grade 'B' API 5L SCH-40) (As per existing at SMBBIT)	3"	No's	5		
468	10	Union Chilled Water Pipe Threaded & Butt Welded (Make: Econosto Steel Seamless Pipe ASTM 106/A53 Grade 'B' API 5L SCH-40) (As per existing at SMBBIT)	3 1/2"	No's	5		
469	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) (As per existing at SMBBIT)	3/4" X 1.2m	Meter	200		

S.#	Item #	Description	Size	Unit	Tentative Quantity	Unit Price	Total Price
470	12	Insulation Chilled Water Pipe RIGID pipe Covering K-450 KRS - 120 KG/m ³ - 120 LBS/Ft ³ - 7.5 (Make: KIMMCO Steel Seamless Pipe To BS-1387, BS-3600 & ANSI / ASTM B-36,10-1985) (As per existing at SMBBIT)	1" X 1.2m	Meter	200		
471	13	Insulation Chilled Water Pipe RIGID pipe Covering K-450 KRS - 120 KG/m ³ - 120 LBS/Ft ³ - 7.5 (Make: KIMMCO Steel Seamless Pipe To BS-1387, BS-3600 & ANSI / ASTM B-36,10-1985) (As per existing at SMBBIT)	1 - 1/4" X 1.2m	Meter	200		
472	14	Insulation Chilled Water Pipe RIGID pipe Covering K-450 KRS - 120 KG/m ³ - 120 LBS/Ft ³ - 7.5 (Make: KIMMCO Steel Seamless Pipe To BS-1387, BS-3600 & ANSI / ASTM B-36,10-1985) (As per existing at SMBBIT)	1 - 1/2" X 1.2m	Meter	200		
473	15	Insulation Chilled Water Pipe RIGID pipe Covering K-450 KRS - 120 KG/m ³ - 120 LBS/Ft ³ - 7.5 (Make: KIMMCO Steel Seamless Pipe To BS-1387, BS-3600 & ANSI / ASTM B-36,10-1985) (As per existing at SMBBIT)	2" X 1.2m	Meter	100		
474	16	Insulation Chilled Water Pipe RIGID pipe Covering K-450 KRS - 120 KG/m ³ - 120 LBS/Ft ³ - 7.5 (Make: KIMMCO Steel Seamless Pipe To BS-1387, BS-3600 & ANSI / ASTM B-36,10-1985) (As per existing at SMBBIT)	2 - 1/2" X 1.2m	Meter	100		
475	17	Insulation Chilled Water Pipe RIGID pipe Covering K-450 KRS - 120 KG/m ³ - 120 LBS/Ft ³ - 7.5 (Make: KIMMCO Steel Seamless Pipe To BS-1387, BS-3600 & ANSI / ASTM B-36,10-1985) (As per existing at SMBBIT)	3" X 1.2m	Meter	100		
476	18	Insulation Chilled Water Pipe RIGID pipe Covering K-450 KRS - 120 KG/m ³ - 120 LBS/Ft ³ - 7.5 (Make: KIMMCO Steel Seamless Pipe To BS-1387, BS-3600 & ANSI / ASTM B-36,10-1985) (As per existing at SMBBIT)	3 - 1/2" X 1.2m	Meter	50		

S.#	Item #	Description	Size	Unit	Tentative Quantity	Unit Price	Total Price
477	19	Insulation Chilled Water Pipe RIGID pipe Covering K-450 KRS - 120 KG/m ³ - 120 LBS/Ft ³ - 7.5 (Make: KIMMCO Steel Seamless Pipe To BS-1387, BS-3600 & ANSI / ASTM B-36,10-1985) (As per existing at SMBBIT)	4" X 1.2m	Meter	50		
478	20	Insulation Chilled Water Pipe RIGID pipe Covering K-450 KRS - 120 KG/m ³ - 120 LBS/Ft ³ - 7.5 (Make: KIMMCO Steel Seamless Pipe To BS-1387, BS-3600 & ANSI / ASTM B-36,10-1985) (As per existing at SMBBIT)	4 - 1/2" X 1.2m	Meter	50		
479	21	Insulation Chilled Water Pipe RIGID pipe Covering K-450 KRS - 120 KG/m ³ - 120 LBS/Ft ³ - 7.5 (Make: KIMMCO Steel Seamless Pipe To BS-1387, BS-3600 & ANSI / ASTM B-36,10-1985) (As per existing at SMBBIT)	5" X 1.2m	Meter	50		
480	22	Insulation Chilled Water Pipe RIGID pipe Covering K-450 KRS - 120 KG/m ³ - 120 LBS/Ft ³ - 7.5 (Make: KIMMCO Steel Seamless Pipe To BS-1387, BS-3600 & ANSI / ASTM B-36,10-1985) (As per existing at SMBBIT)	6" X 1.2m	Meter	50		
481	23	Insulation Chilled Water Pipe RIGID pipe Covering K-450 KRS - 120 KG/m ³ - 120 LBS/Ft ³ - 7.5 (Make: KIMMCO Steel Seamless Pipe To BS-1387, BS-3600 & ANSI / ASTM B-36,10-1985) (As per existing at SMBBIT)	8" X 1.2m	Meter	50		
482	24	Insulation Chilled Water Pipe RIGID pipe Covering K-450 KRS - 120 KG/m ³ - 120 LBS/Ft ³ - 7.5 (Make: KIMMCO Steel Seamless Pipe To BS-1387, BS-3600 & ANSI / ASTM B-36,10-1985) (As per existing at SMBBIT)	10" X 1.2m	Meter	10		
483	25	Insulation Chilled Water Pipe RIGID pipe Covering K-450 KRS - 120 KG/m ³ - 120 LBS/Ft ³ - 7.5 (Make: KIMMCO Steel Seamless Pipe To BS-1387, BS-3600 & ANSI / ASTM B-36,10-1985) (As per existing at SMBBIT)	12" X 1.2m	Meter	10		

S.#	Item #	Description	Size	Unit	Tentative Quantity	Unit Price	Total Price
484	26	Insulation Chilled Water Pipe RIGID pipe Covering K-450 KRS - 120 KG/m ³ - 120 LBS/Ft ³ - 7.5 (Make: KIMMCO Steel Seamless Pipe To BS-1387, BS-3600 & ANSI / ASTM B-36,10-1985) (As per existing at SMBBIT)	14" X 1.2m	Meter	10		
485	27	Insulation Chilled Water Pipe RIGID pipe Covering K-450 KRS - 120 KG/m ³ - 120 LBS/Ft ³ - 7.5 (Make: KIMMCO Steel Seamless Pipe To BS-1387, BS-3600 & ANSI / ASTM B-36,10-1985) (As per existing at SMBBIT)	20" X 1.2m	Meter	5		

P). Bearings

486	1	Bearings (Make SKF / NTN / Equivalent)	6201-2RS/C3 1/2	No's	24		
487	2	Bearings (Make SKF / NTN / Equivalent)	6202-2Z/C3	No's	24		
488	3	Bearings (Make SKF / NTN / Equivalent)	6203-2Z/C3	No's	24		
489	4	Bearings (Make SKF / NTN / Equivalent)	6204-2Z/C3	No's	24		
490	5	Bearings (Make SKF / NTN / Equivalent)	6205-2Z/C3	No's	6		
491	6	Bearings (Make SKF / NTN / Equivalent)	6206-2Z/C3	No's	6		
492	7	Bearings (Make SKF / NTN / Equivalent)	6208-2Z/C3	No's	6		
493	8	Bearings (Make SKF / NTN / Equivalent)	6209-2Z/C3	No's	6		
494	9	Bearings (Make SKF / NTN / Equivalent)	6211-2Z/C3	No's	6		
495	10	Sand Filter With Media 1000kg 3-Way Valve Fitting With PVC Fitting (Chemical Treatment)	36" 72"	No's	2		
496	11	Activated Carbon Filter With Activated Carbon 500kg 3-Way Valve Fitting With PVC Fitting (Chemical Treatment)	36" 72"	No's	2		

S.#	Item #	Description	Size	Unit	Tentative Quantity	Unit Price	Total Price
Q). VRV CHILLER MDS		Ref: PART #					
497	1	CONTROL MODULE, MDS-P/M/E 2.9A OYL (MAKE: MCQUAY) (Compatible with existing Chiller at SMBBIT)	M0408464 0085	No's	2		
498	2	EXV,UKV-18D51,SAGINOMIYA,N-KV-50051 (MAKE: MCQUAY) (Compatible with existing Chiller at SMBBIT)	M0501446 0025	No's	3		
499	3	CONTROL MODULE,MC201-C-v (2.8A) Software Version OYL (MAKE: MCQUAY) (Compatible with existing Chiller at SMBBIT)	M0408464 0203	No's	5		
500	4	Dryer (Make: Alco Controls/ Danfos/Castel) (Compatible with existing Chiller at SMBBIT)	5/8"	No's	6		
501	5	Dryer (Make: Alco Controls/ Danfos/Castel) (Compatible with existing Chiller at SMBBIT)	3/8"	No's	6		
502	6	Dryer (Make: Alco Controls/ Danfos/Castel) (Compatible with existing Chiller at SMBBIT)	1/2"	No's	6		
503	7	EXV Box MEX-24-3SAP-C (MAKE: MCQUAY) (Compatible with existing Chiller at SMBBIT)	MEX-24- 3SAP-C	No's	4		
504	8	EXV Box MEX-22-3SAP-C (MAKE: MCQUAY) (Compatible with existing Chiller at SMBBIT)	MEX-22- 3SAP-C	No's	4		
505	9	Service Shut Off Valve (Make: Alco Controls/ Danfos/Castel) (Compatible with existing Chiller at SMBBIT)	5/8"	No's	2		
506	10	Service Shut Off Valve (Make: Alco Controls/ Danfos/Castel) (Compatible with existing Chiller at SMBBIT)	1/2"	No's	2		
507	11	Service Shut Off Valve (Make: Alco Controls/ Danfos/Castel) (Compatible with existing Chiller at SMBBIT)	3/8"	No's	2		
508	12	Comunication Wire For Controlling	50 Meter	Coil	2		

S.#	Item #	Description	Size	Unit	Tentative Quantity	Unit Price	Total Price
509	13	PHASE PROTECTOR,DB3A01A(V4.0),OYL (MAKE: MCQUAY) (Compatible with existing Chiller at SMBBIT)	M0419901 1978	No's	2		
510	14	SENSOR,PRESSURE H 4.15MPa NSK-BA042D-178 (MAKE: MCQUAY) (Conforming To Existing At Site)	M0409446 0001	No's	2		
511	15	SENSOR,PRESSURE L 1.7MPa NSK-BA017D-178 (MAKE: MCQUAY) (Conforming To Existing At Site)	M0409446 0002	No's	2		

Note:

As required, following pay order/demand draft is enclosed on account of Bid Security:

No: _____ Dated: _____ Rs. _____ drawn on. _____

Bank _____

Signature of Contractor / Supplier/ others: _____

Name of Firm with full Address: _____

Email Address: _____

Phone: Off. _____ Fax: _____ Res: _____ Mobile: _____

BID LETTER FORM

From:

(Registered name and address of the bidder)

To:

Chief Operating Officer,
SMBB Institute of Trauma,
Karachi - 74200

Madam,

Having examined the bidding document and amendment thereon we the undersigned, offer to supply goods/provide services / execute 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.

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 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.
- 3) 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:_____

Bidder's signature
and seal.

Date:_____

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 INSTITUTE OF TRAUMA, KARACHI

A department under Government of Sindh, having its office at SMBB Institute of Trauma, Karachi, 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 SMBB Institute of Trauma, 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 Schedules 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)

Signed, Sealed and Delivered in the presence of:

Witness:

Witness:

(Name, Title and Address)

(Name, Title and Address)

**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 e of the said Principal we, the Guarantor above named, are held and firmly bound unto the Chief Operating Officer, SMBB Institute of Trauma, 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 defenses 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:

Guarantor

(Bank)

1. _____
(Name, Title, Signature & Seal)

Signature:

2. _____
(Name, Title, Signature & Seal)

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 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. _____

For Messrs. [Name of Supplier]

