



Lady Reading Hospital (LRH)
Medical Teaching Institution (MTI)
Peshawar
Contact No: 091-9211430 EXT-1702

BID SOLICITATION DOCUMENTS
For
“HVAC Consumables 2024-26”
(Single Stage Single Envelop)

Note: The prospective bidder is expected to examine the Bidding Documents carefully, including all Instructions, Terms & Conditions, and Specifications etc. Failure to furnish all information required by the Bidding documents or submission of a Bid not substantially responsive to the Bidding Documents in every respect would result in the rejection of the Bid.

Manager Material Management
LRH/MTI Peshawar

AD Legal
LRH/MTI Peshawar

HVAC Engineer
LRH/MTI Peshawar

Deputy Director Works
LRH/MTI Peshawar

Manager Maint: And engineering
LRH/MTI Peshawar

Director Finance
LRH/MTI Peshawar

Nursing Director
LRH/MTI Peshawar

Associate Hospital Director
LRH/MTI Peshawar

Medical Director
LRH/MTI Peshawar

Hospital Director
LRH/MTI Peshawar

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Lady Reading Hospital
Medical Teaching institute
Peshawar
Phone: 091-9211927

INVITATION FOR BIDS

Hospital Director, Medical Teaching Institute, **Lady Reading Hospital Peshawar** Invites sealed tenders under National Competitive Bidding for the procurement of **“HVAC Consumables 2024-26”** for Hospital, under rule 6(2) (b) **“single stage single envelope”** of KPPRA Rules 2014, from Income / Sales tax, reflected on Active Taxpayer List of FBR.
A detailed list of specification of required items can be obtained from the Material Management Department of LRH during working hours (**Monday to Friday**). The specification is also available on our web-site www.lrh.edu.pk

The bidders are required to submit bid security [REDACTED] /- in the name of Hospital Director LRH-MTI Peshawar.

Pre-bid meeting with the interested bidders will be held on [REDACTED] **at 11:00am** at Manager Material Management.

The tenders complete in all respect must reach the undersigned by on [REDACTED] **at 11:00 am**, which will be opened at 11:30 AM on the same day in conference room / AHD office of the Hospital in the presence of the procurement committee and the bidders / representatives who may choose to attend.

Competent Authority reserves the right to reject any or all the bids as per provisions contained in Rule 47 of KPPRA Rules 2014.

1) INSTRUCTIONS TO BIDDERS:

1. This Bidding procedure will be conducted in light of Khyber Pakhtunkhwa Public Procurement Regulatory Authority (KPPRA) Laws, Rules made there under, along with Standard Bidding Documents.
2. **Any bid received after the deadline for submission of bids shall not be entertained and shall be returned unopened to the Bidder.**
3. The bid should be complete in all respect and must be signed by the bidder.
4. All prices quoted must be in Pak Rupees (PKR) and should include all applicable taxes. If not specifically mentioned in the Quotation, it will be presumed that the prices include all the taxes.
5. The bidder shall provide an undertaking that the bidder has not been declared black listed by any Governmental/ Semi-Governmental institutions from Stamp Paper.
6. Bidders shall not be eligible to bid if they are under a declaration of Ineligibility for corrupt and fraudulent practices issued by any government organization in accordance with the Section 44(1) KPP Rules 2014.
7. LRH Peshawar shall evaluate the proposal in a manner prescribed in advance, without reference to the price and reject any proposal which does not conform to the specified requirements.
8. Alternative bid shall not be considered and shall be rejected by the Competent Authority.
9. At any time prior to the deadline for submission of bids, LRH Peshawar may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective Bidder, modify the bidding documents by amendment.
10. If a bid is not substantially responsive, it will be rejected by the Procuring Entity and may not subsequently be made responsive by the Bidder by correction of the nonconformity.
11. **Bidders are essentially required to provide correct and latest postal/email/web addresses, phone/mobile/fax numbers for actively and timely communication.**
12. The Bidder may after its submission withdraw its bid prior to the expiry of the deadline prescribed

for submission of bids. Withdrawn bids will be returned unopened to the Bidders.

13. Any bid not received as per terms and conditions laid down in this document are liable to be ignored. No offer shall be considered if:
 - a. Received without Bid Security;
 - b. It is received after the date and time fixed for its receipt;
 - c. The offer is ambiguous;
 - d. The offer is conditional i.e., advance payment, or currency fluctuations etc.;
 - e. The offer is from blacklisted firm in any Federal / Provincial Govt. Dept.;
 - f. Only typed tender on original prescribing letter pad, sealed & signed should be submitted, the quoted Price must be preprinted and hand written quoted price will not be acceptable. The tenders must be according to hospital specification; alternate rates (**Double rates for single Items**) will not be accepted.
14. Usage of correction fluid & corrections are strictly prohibited unless duly initialed.
15. Any erasing / cutting etc. appearing on the offer, must be properly signed by the person signing the tender.
16. Bids will be rejected if the Bid is in some way connected with bids submitted under names different from his own.
17. In case of Bid Tie, the decision will be taken by making toss/draw/Recall sealed quotation in front of the bidders.
18. Any direct or indirect effort by a bidding firm to influence this institution during the process of selection of a bidder or award of contract may besides rejection of its bid result into its disqualification from participation in the LRH Peshawar's future bids.
19. LRH MTI Peshawar may accept or reject any or all of the bids under Rule 47 of KPPRA Rules, 2014.
20. Brand and Pack size must be mentioned with each quoted item.
21. **Price valid till 30th June 2026.**

4. **BID Security**

Bid security **Rs. 100,000/-** in favor of "Hospital Director LRH Hospital"
The Bid Security in shape of Pay Order is not accepted

The bid security may be forfeited:

- i) If a Bidder withdraws its bid during the period of bid validity specified by the Bidder on the Bid Form; or
- ii) In the case of a successful Bidder, if the Bidder fails to sign the contract
- iii) If a successful Bidder unable to supply the items after issuance of 3 reminders, order will be placed to the next lowest bidder.

5. **BID VALIDITY:**

- i) The bids should be valid **for 180 days**.
- ii) In exceptional circumstances, LRH Hospital may solicit the Bidder's consent to an extension of the period of validity reasons shall be recorded in writing. The request and the responses there to shall be made in writing. The bid security provided shall also be suitably extended. A Bidder may refuse the request without forfeiting its bid security. A Bidder granting the request will not be required nor permitted to modify its bid, except as provided in the bidding document.

6. **BLACKLISTMENT OF DEFAULTED BIDDER/CONTRACTOR**

Conditions for Blacklistment of Defaulted Bidder/Contractor under rule 44 of KPPRA Rules 2014

The following are the events which would lead to initiate (Rule 44 of KPPRA Rules 2014) blacklisting/debarment process;

- Consistent failure to provide satisfactory performances.
- Found involved in corrupt/fraudulent practices.
- Abandoned the place of work permanently

Conditions for debarment of Defaulted Bidder/Contractor

Failure or refusal to;

- Accept Purchases Order / Services order terms;
- Make supplies as per specifications agreed:
- Fulfill contractual obligations as per contract
- Non execution of work as per terms & condition of contract.
- Any unethical or unlawful professional or business behavior detrimental to good conduct and integrity of the public procurement process.
- Persistent and intentional violation of important conditions of contract.
- Non-adherence to quality specifications despite being importunately pointed out.
- Security consideration of the State i.e., any action that jeopardizes the security of the State or good repute of the Lady Reading Hospital Peshawar -LRH-MTI Peshawar.

Procedure for Blacklistment and debarment

1. Competent authority of Lady Reading Hospital -MTI Peshawar may on information, or on its own motion, issue show cause notice to the bidder.
2. The Show Cause notice shall contain the statement of allegation against the Bidder.
3. The bidder will be given maximum of seven days to submit the written reply of the show cause notice.
4. In case the bidder fails to submit written reply within the requisite time, the competent authority may proceed forth with ex-parte against the bidder.
5. Direct to issue notice of personal hearing to the bidder/ authorized representative of the bidder and the competent authority shall decide the matter on the basis of available record and personal hearing, if availed.
6. The competent authority shall decide the matter within thirty days from the initiation of proceedings.
7. The order of competent authority shall be communicated to the bidder by indicating reasons.
8. The order past as above shall be duly conveyed to the KPPRA and defaulting bidder within three days of passing order.
9. The duration of debarment may vary up to five years depending upon the nature of violation.

7. DISPUTES AND CONTROVERSIES/DISPUTE RESOLUTION

1. The purchaser shall constitute a committee comprising of disagreed & notified by the competent authority proper powers and authorizations to address the complaints of bidders that may occur prior to the entry into force of the procurement contract.
2. Any bidder feeling aggrieved by any act of the purchaser after the submission of his bid may lodge a written complaint concerning his grievances not later than 03 days after the announcement of the bid evaluation report.
3. The grievance redress Officer shall investigate and decide upon the complaint within 06 days of the receipt of the complaint. The report along with decision shall be forwarded to the purchaser officer within the prescribed period.
4. Mere fact of lodging of a complaint shall not warrant suspension of the procurement process.
Note: Grievance notified & designated who can invite appropriate official as co-opted member for grievance.

Any dispute or difference arising out of the Agreement which cannot be amicably settled between the Parties, shall be finally settled by KPPRA whose decision will final and binding on both the parties.

STATEMENT OF REQUIREMENT WITH SPECIFICATION

HVAC PLANT MEDSURG BLOCK				
Hitachi Absorption Chiller				
HAU-CGN800EXWSPD				
	ITEM	UNIT	Remarks/Brand	RATE
1	Solution Motor pump power 5.5kw 2900 Rpm	No's	For Chiller Parts, Only Authorized firm by the Principal Manufacturer And associated parts i.e. electronic etc. As per sample, Preferably from, authorized sources of the relevant fields	
2	Solution Motor pump 1.3 KW, 1450RPM	No's		
3	Refrigerant Motor Pump 1.3KW ,2900 rpm	No's		
4	Vacuum motor pump 0.4KW, (3-phase) 4-pole ,1400 rpm	No's		
5	Burner blower Motor 7.5KW	No's		
6	Burner Diesel motor 0.75KW 1430 rpm	No's		
7	Mechanical Seal for Vacuum Pump	No		
8	Chiller PLC Hitachi Japan	No's		
9	Chiller Programmer	No's		
10	Absorption Chiller Inverter Mitsubishi FR-D740-7.5k	No's		
11	Absorption chiller inverter Mitsubishi FR-D740-3.7k	No's		
12	Absorption Chiller Charger HW550-24a input 100/240 output 24v DC	No's		
13	Vacuum Pump for Absorption Chiller			
14	Diaphragm valve 1/2" (MS)	No's		
15	Diaphragm valve 3/4" (MS)	No's		
16	OLYMPIA OIL Pre-Heater Type 907 No: T-1661 4.0kw	No's		
17	Ball valve 1/4" (Brass)	No's		
18	Ball valve 1/2" (Brass)	No's		
19	Ball valve 3/4" (Brass)	No's		
20	Tubes for Chillers	No's		
21	Servo motor SQM10-16502	No's		
22	Temperature gauges 0-100 C	No's		
23	Pressure gauges 0-200Psi	No's		
24	Main Switch breaker 60amp 3-pole	No's		
25	Display card, Hit (Model # PFXGP4501TADW)	No's		
26	Main PCB Controller (X61AA P01)			
27	Ignition transformer 270/200VA LECIP 10KV 2000-5074A	No's		
28	Ignition rod	No's		
29	Ignition plug	No's		
30	Ignition Cable	No's		
31	level switch 1"	No's		
32	Chiller PLC Hitachi Japan	No's		

33	Chiller Exhaust Sensor Threaded ½’’ No’s	No’s	
34	Chiller Evaporator Sensor Chip Type No’s	No’s	
35	Chiller Absorber Sensor Chip Type No’s	No’s	
36	Chiller Condenser Sensor Chip Type No’s	No’s	
37	Gas Regulator 3-10, 3-50, 3-100 PSI	No’s	
38	Transformer (in voltage 380v, 440v, 220. Out 120, 200, 220v)	No’s	
39	Magnetic contactor 60Amp, 3-phase	No’s	
40	Overload Relay 20Amp-50Amp	No’s	
41	Chilled water temperature Sensor	No’s	
42		No’s	
43	Solenoid valve 1/2’’ (220 volt)	No’s	
44	Solenoid valve 1-1/2’’ (220 volt)	No’s	
45	Gas pressure switch 1/4’’	No’s	
46	Gas Pressure gauge 1/4’’, 0-30Psi	No’s	
47	Relay 220v, 8pin, 10Amp	No’s	
48	Mechanical Seal for Vacuum Pump	No	
49	Chiller PLC Hitachi Japan	No’s	
50	Chiller Exhaust Sensor Threaded ½’’ No’s	No’s	
51	Chiller Evaporator Sensor Chip Type No’s	No’s	
52	Chiller Absorber Sensor Chip Type No’s	No’s	
53	Chiller Condenser Sensor Chip Type No’s	No’s	
54	Gas Regulator 3-10, 3-50, 3-100 PSI	No’s	

Materials for MS/PVC Pipe Line (Black Carbon Steel)

55	Item	Unit	Remarks/Brand	Rate
56	MS PIPE SCHEDULE 40			
57	1’’	Rft		
58	1- ¼’’	Rft		
59	1 - ½’’	Rft		
60	2’’	Rft		
61	3’’	Rft		
62	4’’	Rft		
63	6’’	Rft		
64	8’’	Rft		
65	10’’	Rft		
66	12’’	Rft		
67	14’’	Rft		
68	GATE VALVE (Threaded, Brass)	No’s		
69	¾’’	No’s		
70	1’’	No’s		
71	1-¼’’	No’s		
72	1-½’’	No’s		

73	2"	No's		
74	MS GATE VALVE (Flange Type)			
75	3"	No's		
76	4"	No's		
77	5"	No's		
78	6"	No's		
79	8"	No's		
80	10"	No's		
81	12"	No's		
82	14"	No's		
83	2 WAY MOTORIZED VALVE			
84	1-1/4"	No's		
85	1-1/2"	No's		
86	2"	No's		
87	2- 1/2"	No's		
88	Flow Switch for water line	No's		
89	STRAINER	No's		
90	Strainer 3/4"	No's		
91	1"	No's		
92	1-1/4"	No's		
93	1-1/2"	No's		
94	2"	No's		
95	3"	No's		
96	4"	No's		
97	6"	No's		
98	8"	No's		
99	10"	No's		
100	12"	No's		
101	GLOBE VALVE			
102	3/4"	No's		
103	1"	No's		
104	1-1/4"	No's		
105	1-1/2"	No's		
106	2"	No's		
107	3"	No's		
108	4"	No's		
109	6"	No's		
110	8"	No's		
111	10"	No's		
112	12"	No's		
113	PRESSURE RELIEF VALVE	No's		

114	3/4"	No's		
115	1"	No's		
116	2"	No's		
117	PRESSURE REDUCING VALVE	No's		
118	3/4"	No's		
119	1"	No's		
120	AIR VENT	No's		
121	3/4"	No's		
122	1/2"	No's		
123	1"	No's		
124	Brass Non-Return Valve 1"	No's		
125	MS NON-RETURN VALVE			
126	6"	No's		
127	8"	No's		
128	10"	No's		
129	12"	No's		
130	14"	No's		
131	MS ELBOW			
132	3/4"	No's		
133	1"	No's		
134	1- 1/4"	No's		
135	1- 1/2"	No's		
136	2"	No's		
137	3"	No's		
138	4"	No's		
139	6"	No's		
140	8"	No's		
141	10"	No's		
142	12"	No's		
143	14"	No's		
144	MS SOCKETS			
145	3/4"	No's		
146	1"	No's		
147	1/4"	No's		
148	1- 1/2"	No's		
149	2"	No's		
150	4"	No's		
151	1"	No's		
152	Nipple	No's		
153	1/2 "	No's		
154	3/4 "	No's		

155	1"	No's		
156	1 ½"	No's		
157	1 ¼"	No's		
158	Threaded Rods	RFT		
159	8 mm	RFT		
160	10 mm	RFT		
161	12 mm	RFT		
162	14 mm	RFT		
163	16 mm	RFT		
164	18 mm	RFT		
165	Fishers Nut Bolts & Washers	No		
166	8 mm	No's		
167	10 mm	No's		
168	12 mm	No's		
169	14 mm	No's		
170	16 mm	No's		
171	18 mm	No's		
172	Chiller butterfly valve 4"	No's		
173	Chiller butterfly valve 2- ½"	No's		
174	PVC Elbow	No's		
175	0.5"	No's		
176	1"	No's		
177	2"	No's		
178	3"	No's		
179	4"	No's		
180	PVC union 3/4"	No's		
181	GI Elbow	No's		
182	1"	No's		
183	2"	No's		
184	2 ½"	No's		
185	3"	No's		
186	4"	No's		
187	6"	No's		
188	8"	No's		
189	GI Dead End plug 2"	No's		
190	2.5"	No's		
191	1"	No's		
192	Fiber gas kit	Sq-ft		
193	Gasket (As per sample) rubber/hard board	Sq-ft		
	CHEMICALS			
194	Chemical 2808 Close circuit treatment	Kg		
195	Chemical 308 corrosion inhibitor	Kg		

196	Chemical 3204	Kg		
197	PH Meter	No's		
198	TDS Meter	No's		
199	Calibration Solution PH	Liters		
200	Corrosion Inhibitor (Phosphate-base)	Liter		
201	Descaler	Liter		
202	Neutralizer chemical	Liter		
203	Dispersant & Antifouling	Liter	Material FRP	
204	Microbicide (Non-Oxidizing Biocides)	Liter		
205	Anti-Scalant	Liters		
206	Descaling Pump 1/2 HP (steel Body)	No's		
207	Softener Plant with completely fitting & installation	No's		
208	Descaling agent Acid based scale remover (Liquid descaler)	Liters		
209	Chemical dosing pump 220v	No's		
210	Lithium bromide Chemical	Kg		
211	Distilled water	Liter		
212	Octyl Alcohol	Kg		
213	Inhibitor (Molybdate Based)	Kg		
214	HCL	Kg		
215	Lithium hydro Oxide	Kg		
216	Neutralizer	Kg		
217	Vacuum Oil (Robin air USA)	Liters		
218	PH Paper	No's		

Materials for AHU's, Ducting and Associated Works

	Item	Unit	Remarks/Brand	Rate
219	Duct Temperature Sensor	No's		
220	Humidity Sensor	No's		
221	Room Temperature Sensor	No's		
222	Immersion Temperature Sensor	No's		
223	Fire State with manual Reset	No's		
224	Room Humidity Sensor	No's		
225	Relay 14 pin, 7Amp, 250v (Finder)	No's		
226	Timer 1-6minutes, 250v	No's		
227	Auto Controller (DDC)	No's		
228	Pressure Differential transmitter	No's		
229	Outdoor Temperature sensor/ Humidity sensor	No's		
230	Wet DP Transmitter	No's		
231	Pressure Gauges	No's		
232	Thermostat	No's		
233	Universal Module	No's		
234	Extension module	No's		

235	Smoke detector	No's		
236	Air DPS	No's		
	FILTERS			
237	Pre filters 12"x24"	Set	For Filters AAF, Trox, Eco Air, or Equivalent	
238	Pre filters 20"x24"	Set		
239	Pre filters 24"x24"	Set		
240	Air filters 12"x12"	Set		
241	HEPA Filters 12"x18" (As per Sample)	Set		
242	HEPA Filters 12"x24"	Set		
243	FCU filters 10 1/2"x47"	No's		
244	Bag Filters 12"x24"	Set		
245	Bag Filters 20"x24"	Set		
246	Bag Filters 24"x24"	Set		
247	Bag Filters 12"x12"	Set		
	BALL BARINGS			
248	Ball Baring 6308 C3	No's		
249	Ball Baring 6309	No's		
250	Ball Baring 63	No's		
251	Ball Baring 6317	No's		
252	Ball Baring 6313	No's		
253	Ball Baring 6312	No's		
254	Ball Baring 6211	No's		
255	Ball Baring 6319	No's		
256	Ball Baring 6319	No's		
	BELTS			
257	1457 Belt size	No's		
258	1807 Belt size	No's		
259	1425 Belt size	No's		
260	2132 Belt size	No's		
261	1832 Belt size	No's		
262	1700 Belt size	No's		
263	2000 Belt size	No's		
264	1500 Belt size	No's		
265	1632 Belt size	No's		
266	1407 Belt size	No's		
267	1257 Belt size	No's		
268	1807 Belt size	No's		
269	1757 Belt size	No's		
270	1120 Belt size	No's		
271	1400 Belt size	No's		
272	a-49 Belt size	No's		
273	1257 Belt size	No's		

274	1807 Belt size	No's		
275	A-69 Belt size	No's		
276	1107 Belt size	No's		
277	3816 Belt size	No's		
278	1382 Belt size	No's		
279	A-45 Belt size	No's		
280	1482 Belt size	No's		
281	1582 Belt size	No's		
282	1120 Belt size	No's		
283	1900 Belt size	No's		
284	1757 Belt size	No's		
285	2057 Belt size	No's		
286	Emery paper	No's		
287	Aluminum tape/insulation tape/cotton tape	No's		
288	Thermo-pole	Sq-ft		
289	Exhaust duct grill	No's		
290	Magic epoxy/diepoxy			
Materials for Associated WORKS & Accessories				Rate
291	MAIN BREAKERS	No's		
292	10 Amp			
293	15 A,	No's		
294	20 A	No's		
295	25 A	No's		
296	30 A	No's		
297	40 A	No's		
298	50 A	No's		
299	60 A	No's		
300	100 A	No's		
301	MAIN PANEL BREAKER 1200 A (Chiller) 3-P	No's		
302	OVERLOAD RELAY			
303	7--10 A	No's		
304	9-13 A	No's		
305	12-18 A	No's		
306	15-25 A	No's		
307	18-25 A	No's		
308	MAGNETIC CONTACTOR 3 POLE			
309	10 A.	No's		
310	15 A.	No's		
311	25 A.	No's		
312	30 A	No's		
313	40 A	No's		

Schneider, ABB,
Siemens, TERASAKI,
EATON

314	60 A	No's		
315	80 A	No's		
316	100 A	No's		
317	120 A	No's		
318	150 A	No's		
319	200 A	No's		
320	MCCB 3-POLE	No's		
321	50 A	No's		
322	50 A	No's		
323	80 A	No's		
324	100 A	No's		
325	150 A	No's		
326	250 A	No's		
327	400 A	No's		
328	MCB 1-pole 4 A	No's		
329	MCB 1-pole 6 A	No's		
330	MCB 1-pole 10 A	No's		
331	MCB 1-pole 16 A	No's		
332	ACB 3-pole 630 A ABB, SIEMENS, SCHNEIDIER (SACE E6.2H)	No's		
333	ACB 3-pole 4000 A ABB, SIEMENS, SCHNEIDIER (SACE Tax)	No's		
334	VFD Trane (TR-200) 40KW	No's		
335	Timer 1-6 Minutes, 250V	No's		
336	Emery paper	No's		
337	Aluminum tape/insulation tape/cotton tape	No's		
338	Thermo-pole	Sq-ft		
339	Exhaust duct grill	No's		
340	Magic epoxy/diepoxy			
341	Thermostat screen	No's		
342	Cone Barings UC206 to UC212	No's		
343	Baring block UC206 to UC212	No's		
344	AHU MOTOR	No's	As per Specs Installed	
345	5 KW	No's		
346	7.5KW	No's		
347	11 KW	No's		
348	15 KW	No's		
349	18.5 KW	No's		
350	MAHU BLOWER MOTOR	No's		
351	0.37Kw	No's		
352	0.75KW	No's		
353	1.10KW	No's		

354	1.1KW	No's		
355	Motor rewinding Per kW	No's		
356	AHU Blower (As per sample)	No's		
357	MAHU Blower (As per sample)	No's		
358	FAN COIL UNITS	No's		
359	FCU Thermostat	No's		
360	FCU Electronic Card	No's		
361	FCU Filters	No's		
362	Motorized Valve actuator for FCU Units	No's		
363	FCU Motor for Single Blower 220v, 1.6 KW	No's		
364	FCU Motor for Single Blower 220v, 1.8 KW	No's		
365	FCU Motor for Double Blower 1.6 kW	No's		
366	FCU Motor for Double Blower 1.8 kW	No's		
367	Double Blower	No's		
368	Single Blower	No's		
369	2-way motorized valve 3/4"	No's		
370	2-way motorized valve 1"	No's		
371	MOTOR COUPLING	No's		
372	3"	No's		
373	4"	No's		
374	5"	No's		
375	6"	No's		
376	8"	No's		
377	10"	No's		
378	12"	No's		
379	14"	No's		
380	COUPLING RUBBER DISC	No's		
381	3"	No's		
382	4"	No's		
383	5"	No's		
384	6"	No's		
385	8"	No's		
386	10"	No's		
387	12"	No's		
388	14"	No's		

389	Thermostat 5-30C, 3 speed, hot, cold mode	No's		
390		No's		
391	Flow switch 1"	No's		
392	Volt meter 0 A-500v	No's		
393	Ampere meter 0 A-1000 A	No's		
394	Ampere meter 0 A-30 A	No's		
395	Indicator bulbs 220v, red, green, yellow, blow	No's		
396	Selector switch auto, manual	No's		
397	ON/OFF push button	No's		
398	Single pole breaker 10 A	No's		
399	Pressure transmitter/sensor	No's		
400	Humidity sensor	No's		

Cooling Towers

	Item	Unit	Remarks	Rate
401	Cooling Tower fins 9' x 9' width 5" (Sheet	As per Sample	
402	Cooling Tower fan blades GFAR-240	Set		
403	V belt SPB-4500	Set		
404	Cooling Tower Motor 37 kW			
405	Combine Belt Size 120	No's	Best Quality	
406	Brass Float valve 1-1/2"	No's		
407	Raisin Chemical for fiber leaks	Kg		
408	Chemical for fiber leaks	Kg		

BMS System

Company Name: Trane

	Item	Unit	Remarks	Rate
409	Web Controller with installation	No's		
410	HMI Software with installation	No's		
411	Reliable Controller with installation	No's		
412	Low pressure switches man. Reset 0,5-7 bar PS1-R3A	No's		
413	High Pressure switch man. Reset 6-31 bar PS1-R5A	No's		
414	Relay 48-65A	No's		
415	Relay 30-40A	No's		
416	Pressure Probe 0/10 bar SPKT0011CO CAREL	No's		
417	Pressure Probe 0/30 bar SPKT0031CO CAREL	No's		
418	Control cable flexible 23/76"	No's		

General items

	Item	Unit	Remarks	Rate
419	Nitrogen Gas	Kg		
420	UPVC Pipe 1/2", 3/4", 1"	RFT		
421	Flexible joint 200mm, 250mm, 300mm	No's		

422	4 WAY DIFFUSER, with installation			
423	12"x12",	No's		
424	16"x16	No's		
425	18"x18"	No's		
426	24"x24"	No's		
427	2 WAY DIFFUSER, with installation			
428	12"x12"	No's		
429	16"x16	No's		
430	18"x18"	No's		
431	24"x24"	No's		
432	FRESH AIR GRILLE	Sq-ft		
433	12"x12"	Sq-ft		
434	12"x 24"	Sq-ft		
435	24"x24"	Sq-ft		
436	Installation of GI Duct	Sq-ft		
437	18 G	Sq-ft		
438	20 G	Sq-ft		
439	24 G	Sq-ft		
440	Canvas Cloth	Sq-ft		
441	Cladding	Sq-ft		
442	Aluminum cladding on pipes with install	Sq-ft		
443	GLASS WOOL Insulation for Piping	Sq-ft		
444	Canvas Cloth	Sq-ft		
445	Flexible Duct with Installation			
446	6"	Sq-ft		
447	8"	Sq-ft		
448	10"	Sq-ft		
449	12"	Sq-ft		
450	Flexible Connector	Sq-ft		
451	VCD (Volume Control Damper)	Sq-ft		
452	Nylon Brush 1"	No's		
453	WD-40	Kg		
454	Wire brush	No's		
455	Grinder disk 6"	No's		
456	Cutting disk 6"	No's		
457	Compound gauge Range-0.1~0.2mpa	No's		
458	Condenser/Primary/Secondary Pumps/Motor	No's		
459	Primary Motor 75 kw	No's		
460	Secondary Motor 30 kw	No's		
461	Condenser Motor 110 kw	No's		
462	PUMP			

463	960 GPM	No's		
464	1200 GPM	No's		
465	1937 GPM	No's		
466	MOTOR COUPLING			
467	Primary	No's	As per sample	
468	Secondary	No's		
469	Condenser	No's		
470	Pump Impeller (as per sample)	No's		
471	Pump mechanical seal (as per sample)	No's		
472	Pump shaft (as per sample)	No's		
473	Pump pulley (as per sample)	No's		
474	Back fan all motors (as per sample)	No's		
475	Cotton Thread	No's		
COMPRESSION CHILLER details				
476	Trane Compressor	No's	For Chiller Parts, Only Authorized firm by the Principal Manufacturer	
477	Model K4129-72A, serial num K1609214001	No's		
478	Display battery cell 3volt plus CR 2450Hr Japan	No's		
479	Oil Pump Motor	No's		
480	Pressure switch	No's		
481	Control circuit Trane (As per sample)	No's		
482	Panel door locks (As per sample)	No's		
483	Main panel breaker 1200 A 3pole	No's	Schneider, ABB, Siemens, TERASAKI	
484	Impeller (As per sample)	No's		
485	Impeller bearing (As per sample)	No's		
486	Solenoid valve	No's		
487	Solenoid valve ¾"	No's		
488	Solenoid valve 1"	No's		
489	Solenoid valve 1- ½ "	No's		
490	Solenoid valve 2",	No's		
491	Level switch Omron float less	No's		
495	Rapture disk	No's		
496	Panel exhaust fan (As per sample)	No's		

HVAC PLANT CARDIOLOGY BLOCK

	DESCRIPTION	UNIT	Remarks/ Brand	Rat es
497	V-Belts:	No's		
498	A-55	No's		
499	B-54	No's		
500	B-64	No's		
501	b-72	No's		
502	B-78	No's		
503	Bearing Block for AHU:	No's		
504	F206J	No's		
505	F207J	No's		
506	F 208J	No's		
507	Rubber Disc - Part No. 3502 for Cooling Tower Motor Gear Box Coupling	No's		
508	Aero flex for Chiller Pipe Insulation (2.5" Dia) Length-6'	No's		
509	Aero Flex 5/8" and 3/4" Dia, 6 ft length	No's		
510	Soft Rubber Gas kit for Chiller Cover Plates (1/4" x 3/8") –	Rft		
511				
512	Rubber Disc 6" Dia, 8 Nos. Holes for KSB Pumps Coupling	No's		
513	Rubber Diaphragm 6" Dia for Chiller Actuator Valve –	No's	as per sample	
514	Rubber Foam Sheet 1" x 4' x 4' for insulation of chiller for coolant tank	Sheets		
515	Samad Bond	Kg		
516	Glue for HVAC Pipe insulation purpose	Kgs		
517	Vacuum Oil (Robin Air USA) for Chiller Vacuuming	Liters		
518	Insulation tape (Nitto) for electrical connection purpose	No's		
519	Teflon Tape 1/2" 1	No's		
520	Steel Wire Brush Flat (4" x 9")	No's		
521	Clinker Joint Sheet (1/8" x 4' x 5') for Pumps	No's		
522	Clinker Joint Sheet (1/16" x 4' x 5') for Pumps	No's		
523	Joint Sheet (1/8" x 4' x 5') for Boilers (high temperature)	No's		
524	Motor for FCU double shaft (1/6 HP)	No's		
525	Motor for FCU single shaft (1/12 HP)	No's		
526	Blower required for FCU - as per sample	No's		
527	Capacitor for FCU (3.5(uf)	No's		
528	Filter for FCU: as per sample	Sq-ft		

529	Plastic Pipe (1" Dia) for high pressure	Mtr.		
530	Brass Nut for Boiler's door fitting (1" Dia) as per sample	No's		
531	Nozzle with Adapter complete for Cooling Towers (Marley USA) Local made	No's		
532	Ball Bearings	No's		
533	UC204,	No's		
534	UC206,	No's		
535	UC207,	No's		
536	UC208	No's		
537	Circuit Breaker 3-Phase 80 A	No's		
538	Circuit Breaker 20amp	No's		
539	Boiler Water Feed Pumps complete with 5 -1P Meter multi-stage, high pressure	No's		
540	KSB Pump for Chiller with 3-Phase 25HP Motor	No's		
541	(Head 1000ft)			
542	Fins/Fills) for Marley Cooling Tower,	No's		
543	Imported (4' x 11') 16 Macro			
544	Fins (Fills) for Marley Cooling Tower, As per sample	No's		
545	Air Compressor complete with Air Tank 10 Bar Pressure with Air Drier	No's		
546	Complete Starter (Star Delta) for 25HP Motor 3-Phase, as per sample	No's		
547	Gate Valve for FCU connection supply/return for water control (1/2") Kitz	No's		
548	Gate Valve for FCU Connection (3/4") Kitz	No's		
549	30HP (48 slots) 3-Phase Electric Motor RPM 1450, waterproof for CT	No's		
550	Starter Star Delta for 30HP Motor 3-Phase	No's		
551	Thermostat with fitting for FCU as per sample	No's		
552	Ball Bearings 6205ZZ	No's		
553	6207ZZ	No's		
554	6309ZZ	No's		
555	6310ZZ	No's		
556	High Temperature Grease	Kg		
557	Teflon Gland Packing for Pumps 1/4" and 3/8"	Kg		
558	Asbestos Dori 1" for Boilers' Doors	Kg		
559	Asbestos Patti 2" wide and 1/8" thick	Kg		
560	Gland Cup (for Pumps and Valves) - as per sample	Each		
561	MS Coupling for Pumps	Sets		
562	Flexible wire	Rolls		
563	Alcohol Thermometer 1ft long	No's		

564	Digital Temperature Gauge	No's		
565	Pressure Gauge	No's		
566	Fire Cement for Boilers	Kg		
567	Silica Liquid for Boilers	Kg		
568	Welding Rods 10 No. and 12 No.	Kg		
569	Pump for De-scalar circulation, plastic body, 3-Phase, 3HP	No's		
570	Motor 7.5HP 3-Phase 1400 RPM required for AHU	No's		
571	Aluminum Filter for AHU - as per sample	No's		
572	Sound Liner for AHU internal body	Mtr		
573	Canvas Cloth, best quality	Mtr		
574	Magnetic Contactor for 5HP 3-Phase Motors	No's		
575	Magnetic Contactor for 7.5HP 3-Phase Motors	No's		
576	Data Cable 12-Cöre	Rolls		
577	Diaphragm Valve 1/2" for Chillers - as per sample	No's		
578	Diaphragm Valve 3/4" for Chillers - as per sample	No's		
579	Solenoid Valve 3/4" for Chillers'	No's		
580	Solenoid Valve 1/2" for Chillers	No's		
581	Honeywell Thermostat required for FCU temperature Controller	No's		
582	Gear Oil for Gear Box	Liter		
583	Air Compressor Oil	Liter		

Miscellaneous

	DESCRIPTION	UNIT	Remarks/ Brand	Rates
584	High Flow Evaporative Air Coolers	No's		
585	10,000-12000, CFM	No's	(Best Quality, With Warranty)	
586	17,000-20000 Cfm (2200 To 2400 Sqft)	No's		
587	High-Capacity Drinking Water Coolers with Filters			
588	400 liter per Hour	No's		
589	600 liter per Hour	No's		
590	1000 liter per Hour	No's		
591	Compressor 12.5 RT	No's		

NOTE:

- 1. For Major Equipment in Built-System Parts: only Authorized Firms will be eligible.**
- 2. For Others and/or Major Equipment Spares, Associated parts/consumables: Relavant Field Expert/Experienced firms will be preferred**

Details Required.

- Brand name,
- Specification of product,
- Pack size, if required
- Unit/Pack/job Price.
- Bids having items not fulfilling/in compliance with the required specifications shall be treated as non-responsive bids.

Do's and Don'ts

Do attach authorization letter for items where mentioned.

Do attach only authentic documents.

Do attach only legible/readable documents.

Do attach table of contents on top of the bid documents.

Don't attach fake and forged documents.

Don't attach unreadable, misprint and dim/ dull documents.

10. Award of Contract:

After opening of the bids of the firm / contractor quoting the lowest rates in each item are accepted.

11. Payment:

- a. No advance payment will be permissible.
- b. The payment will be made after successful supply, installation/inspection and test run of all requisite items.

12. Sub-Letting Contract:

The supplier shall not sub-let or assign this Contract or any part thereof without the written permission of the procuring entity. In the event of the Services provider subletting or assigning this Contract or any part thereof without such permission, the procuring entity shall be entitled cancel the Contract and to purchase the goods elsewhere on the supplier account and risk and the supplier shall be liable for any loss or damage which the procuring entity may sustain in consequence of arising out of such purchase.