

Question and Answer No. 3

ITB-804/18-Rehabilitation of Ibn Al Atheer Hospital Building, East Mosul, Ninewa Governorate

No.	Question submitted bidders	Answer by Technical and Procurement Teams
1	<p>After we reviewed the schedule and BOQ for AHUs, kindly note that it's required steam humidifier to all air handling units as per mentioned in attached schedule, while in BOQ its mentioned that steam boiler will be available for this project.</p> <p>Please check and advise if the steam boiler will be connected with AHUs and quote steam distributor only without steam generation inside the AHUs.</p>	<p>The steam humidifier is part of the Air Handling Unit and the whole unit is connected to the steam boiler in the machines room. Please refer to the machine room details in drawing AC-08 for the location of the steam boiler.</p>
2	<p>In the item of BMS we need more information about the wiring and the devices that needed.</p>	<p>The BMS will be provided in the eTendering system.</p>
3	<p>In civil work accessories item No. 2 what do you mean by coating the stone with special protecting materials.</p>	<p>Please refer to section 040140 of the technical specifications for more detail.</p>
4	<p>Please I am asking about all pumps , you need (variable speed driver) or not.</p>	<p>The pumps are not variable speed driver. Refer to the specifications of each pump listed in the BOQ for the speed value of each pump.</p>

5	<p>Technical specification section 12000 is not found in the Technical Specification document (All_Specialties), which is referred with items under Architectural Works/Accessories item 16,17,19,20,21 and Furnitures. Kindly provide the regarding section.</p>	<p>Please note that section 12000 is added to the revised technical specifications, however items 16, 17, 19, 20 & 21 are described in detail in the architectural drawing # LN-001.</p>
6	<p>Technical Specification – 089119 is missing which is referred to manufacturing and installation of louvers, under Architectural Works/Accessories/item.6. Kindly provide the related specification sheet.</p>	<p>Please note that section 089119 is added to the revised technical specifications.</p>
7	<p>Laundry equipment items are listed in both “Arch. & Civil” and “Mech.” BoQs. That may cause to duplicate the cost of regarding equipment. Also quantities do not exactly the same each other. For instance, below stated laundry item is specified as 4 pcs in “Mech.” BoQ, however 2 pcs in “Arch. & Civil”. Kindly clarify which items should be included our proposal.</p> <p>a. <i>(Item38) Supply , installation and operation of Tumble dryer , capacity 27 kg. It is working by steam and electric and by PLC system and according to the following specifications:</i></p> <ul style="list-style-type: none"> -Capacity up to 27 kg/load(dry weight) -Heating: electric element -Drum stainless steel 18/8 -Operated by programmed Automatically and manual -Safety look on door -Fitting and flexible pipes 1.5m included -connection to 380v/3 ph/50 Hz - Domestic water pressure supplied 0.5 bar 	<p>The BoQ will be revised and provided in the eTendering system.</p>

8	<p>Gas Cooking Instruments are stated as 5 pcs in “Mech.” BoQ, however 9 pcs in “Arch. & Civil”. Kindly clarify which items should be included our proposal.</p> <ul style="list-style-type: none"> Mechanical boq item: <table border="1" data-bbox="277 386 1173 747"> <tr> <td data-bbox="277 386 352 747">12</td> <td data-bbox="352 386 1014 747">Supply, install, test KITCHEN gas COOKING INSTRUMENT with all REQUIRMENT BEST TYPE and specifications (plumping specification). All the work must be accomplished according to the STANDARD SPECIFICATIONS. Supplying all the special auxiliary equipment for completing installation & operation according to the directive of the resident engineer.</td> <td data-bbox="1014 386 1094 747">NO.</td> <td data-bbox="1094 386 1173 747">5</td> </tr> </table> <ul style="list-style-type: none"> Arch. & Civil boq item: <table border="1" data-bbox="277 824 1173 1227"> <tr> <td data-bbox="277 824 352 1227">K</td> <td data-bbox="352 824 1014 1227">RG-4 : 4 burner gas range c/w oven (53) Supply, install, test KITCHEN gas COOKING INSTRUMENT with all REQUIRMENT decent and approved type and specifications (plumping specification). All the work must be accomplish according to the STANDARD SPECIFICATIONS. Supplying all the special auxiliary equipments for completing installation & operation according to the directive of the resident engineer.</td> <td data-bbox="1014 824 1094 1227">NO.</td> <td data-bbox="1094 824 1173 1227">9</td> </tr> </table>	12	Supply, install, test KITCHEN gas COOKING INSTRUMENT with all REQUIRMENT BEST TYPE and specifications (plumping specification). All the work must be accomplished according to the STANDARD SPECIFICATIONS. Supplying all the special auxiliary equipment for completing installation & operation according to the directive of the resident engineer.	NO.	5	K	RG-4 : 4 burner gas range c/w oven (53) Supply, install, test KITCHEN gas COOKING INSTRUMENT with all REQUIRMENT decent and approved type and specifications (plumping specification). All the work must be accomplish according to the STANDARD SPECIFICATIONS. Supplying all the special auxiliary equipments for completing installation & operation according to the directive of the resident engineer.	NO.	9	<p>The BoQ will be revised and provided in the eTendering system.</p>
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9	<p>Do you have the analysis of the supply water to the Reverse Osmosis Unit?</p>	<p>Reverse Osmosis unit is not required.</p>								

10	The tender document with "ITB_804_18-TS-All_Specialties-30122018" reference mentions an appendix which contains the approved manufacturers however we could not see this document.	List of approved manufacturers is not applicable for this project
11	Cooling tower Water temp.IN chiller & OUT from the chiller?	<p>-All the cooling tower details are listed in the cooling tower schedule; including 'in' and 'out' water temperature. The schedule is located in drawing AC-02.</p> <p>-The water temperature in chiller is 30 C° and the temperature out chiller is 35 C°. The 'in' and 'out' temperature of the chiller is the opposite of the cooling tower 'in' and 'out' temperature of which in this case is: cooling tower 'in' temperature: 35 C° and 'out' temperature is 30 C°, as illustrated in drawing AC-02.</p>
12	Please confirm that water temp in cooling tower is 35 C & out of cooling tower is 30 C & Air wet temp 26 C.	Please refer to drawing AC-02.
13	ALL AHU,s including 100% Fresh air AHU,s air intake temp. is 46 C .Please confirm.	Please refer to drawing AC-05 for Air Handling Units schedule including air intake temperature.

14	Cassette FCU,s are they 4 pipe or 2 pipe system ?	Please refer to drawing AC-12.
15	Item 44 &Item 45 we need more details about what is supply air temp required?and ex static pressure & filters and if using heat recovery or not? air discharge quantity for each package unit?	<p>Air Package Units details as illustrated in drawing AC-07:</p> <p>item 44: 100% FRESH AIR PACKAGE UNIT</p> <p>AIR INLET TEMP. = 52 C AIR OUTLET TEMP FROM COIL = 14C AIR QUANTITY AS INDICATED IN DRAWING = 3600 CFM TOTAL CAPACITY = 25 TONS TOTAL EXTERNAL PRESSURE = NOT LESS THAN 300 PASCAL</p> <p>item 45: 100% FRESH AIR PACKAGE UNIT</p> <p>AIR INLET TEMP. = 52 C AIR OUTLET TEMP FROM COIL = 14C AIR QUANTITY AS INDICATED IN DRAWING = 2600 CFM TOTAL CAPACITY = 18 TONS TOTAL EXTERNAL PRESSURE = NOT LESS THAN 300 PASCAL</p> <p>The unit doesn't use heat recovery.</p>

16	ITB_804_18-BOQ-30122018" item "Accessories": What kind of stone that is described as "Hillan Stone" in BOQ.	Hillan is lime stone (the local stone in Mosul).
17	ITB_804_18-BOQ-30122018" item "Accessories": What kind of coating be required on existing Hillan Stones?	Please refer to section 040140 of the technical specifications for more detail.
18	Could you please send us Auto Cad drawings?	The AutoCAD drawings will be given to the winner contractor after signing of the contract.
19	In BOQ of the Hospital Ibn Al Thar, the 47. Item is for Cooling and Freezing rooms. 3 rooms are requested, but there are no definition of which of these 3 units would be for cooling and the which ones would be for freezing. <ul style="list-style-type: none"> • Could you please specify the number of cooling and freezing rooms 	The three requested rooms should be used for both cooling and freezing at the same time.
20	Also we are assuming all three rooms are 4m x 3m x 3m even though the specs call for different room sizes. <ul style="list-style-type: none"> • Could you please confirm if it is correct? 	The rooms' dimensions are (4mx3mx3m).

21	<p>According to our calculation based on given room sizes, the load in total for three rooms is around 4,5 tons max, but the BOQ calls for 7,5 ton.</p> <ul style="list-style-type: none"> • How was the load determined? Perhaps it is sized for more than three rooms. • Lastly, Are the outdoor units must be central or separate for each room? 	<p>-The load calculations took into consideration the probability of using a standby unit. -The outdoor units are separated for each room.</p>
22	<p>could you please informed about waste water treatment plant package in BOQ the capacity is 150 Bed but in drawing SA-11 write 100 bed . also this plant No. is tow or one . also if the water treated in BOQ used for irrigation but in Drawing we see is drain to the city network drawing SA-3.</p>	<p>-The waste water treatment plant capacity is 150 bed each, as shown in drawing SA-03. -Number of plants = 2, as shown in drawing SA-03. -Due to the absence of green areas around the hospital all the treated water is directed to the public sewage system although the treated water is suitable for irrigation purposes and can be used to water plants.</p>