Question and Answer No. 8

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

No.	Question submitted by bidders	Answer by Technical and Procurement Teams	
	Item No. 41 in mechanical BOQ you write (pressd plate steel)	Follow the drawing details GRP tank, as it is a hygienic	
1	but in mechanical drawing (ME - 35) you write (GRP) (Glass	location and GRP tanks used in the hospitals and hygienic	
	reinforced plastic) this different please check that.	locations.	
	Item No. 38 in mechanical BOQ you write (pressd plate steel)	Construction of 5 mm thick black steel, complete with	
2	this tank capasity 30000 liter used for fuel. please pressed	valves, level monitor, manholes, level switches, vents, 2	
2	plate steel used just for water tank not fuel tank please check	layers of anti-rust painting, and 2 layers of oil painting and	
	that.	with all accessories.	
	Architectural		
	In the provided drawings, 48 window types are available	The architectural drawings illustrated all windows in the	
	starting from W1 to W48 out of which however some are not	hospital, existing, damaged and new proposed.	
3	indicated/stated in BoQ as per below:	Refer to architectural drawings AR-113 & AR-114 to	
	W2,W3,W6,W7,W8,W11,W13,W14,W15,W16,W17,W18,W19,	indicate all windows need to be replaced and all new	
	W21,W22,W23,W24,E25,W26,W27, & W47	proposed.	
	Structural & Civil Works		
4	Site Civil Works - A. Roof Treatment, Item 4: The unit provided	Please follow to the unit mentioned in the BOQ.	
-	in BoQ is in M2, while engineering and practical-wise should be		
	in ML – Expansion Joints normally can't be quantified in M2.		
	Structural & Civil Works	Please refer to the BOQ	
	Site Civil Works – C. Steel Fence Works, Item 2: The details and	"Supply materials, tools and manpower to install new	
5	drawings for the new fence, do not match the actual condition	pieces of steel fence with the same shape, dimension and	
5	and design of the existing fence	decoration in all missing location, the work including	
		welding and painting these pieces with two layer of anti-	
		rust paint"	
	Structural & Civil Works	Please refer to the architectural drawings AR 116 (Ground	
6		Floor Plan and Section A-A) and drawing AR 122 for D17	
		detail.	

	New Medical Gas & Boiler (Machine) Rooms: No detail and	Refer to the note mentioned in the BOQ"Note: the price		
	item are indicated in BoQ for the required openings (i.e.	covers the ironmongery, stoppers, slow down tool (if		
	Doors)	needed), protection aluminum plate, adjustment of the		
		structural opening for all doors."		
	Mechanical Works			
7	AHU No. 26, as per drawings and compliance sheet it showing	AHU No.26 should be a hygienic type.		
'	that, AHU No.26 is should be hygienic type but in the BoQ it is			
	been listed within nonhygienic AHU type.			
	Mechanical Works	The quantity of (AHU 24) is one please refer to drawing		
8	BoQ Mechanical Works A.C item No. 15.2 (AHU 24), the BoQ	$\Delta C_{-27} \otimes \Delta C_{-28}$		
	item quantity is showing (six) but as per drawings it is (one).	AC 27 & AC 20.		
	Mechanical Works			
9	For hygienic AHUs, it is recommended to use coil type heat	Plate type should be used.		
9	recovery than using plate type, kindly advice which type is			
	recommend by UNDP.			
	Mechanical Works	As specified:		
	For hygienic AHUs, we think that the designer did not consider	As mentioned in BOQ, Items 15.1, 15.2 & 15.3 for all AHU		
	the static pressure for the HEPA filters , because the external	units used in operation room the external static pressure is		
	static pressure of the hygienic AHUs (listed in the equipment	not less than 700 Pascal.		
	schedule) is low (20 mmWG).			
		AHU- 25 (100% Fresh) Flow		
		Capacity=204 MBH		
10		Rate=2800 cfm		
		External static pressure not less than 700psi		
		AHU-23 (100% Fresh) Flow		
		Kate=2200ctm)		
		External static pressure not less than 700psi		
		(Frosh)		
		(רופטוו)		

		AHU- 24 (100% Fresh) Flow
		Capacity=180 MBH
		Rate=2600 cfm
		External static pressure not less than 700psi
	Mechanical Works	The AHLLused with best receivery to control the suction size
11	For air ducting of Operation theaters, neither in BoQ nor in	The AHO used with heat recovery to control the suction an
11	Drawings/specifications there is no any VAV/CAV box to	and delivery drawings (AC OF 8, AC 15) and in DOO itom 15
	control the air flow for (-/+) pressure.	and delivery drawings (AC-05 & AC-15) and in BOQ item 15
	Mechanical Works	
	Mechanical drawings AC-12 and AC-14, the AHU coils and Fan	
	coil pipe connections shows two way valves but in the BoQ and	
12	drawing AC-31 it is mentioned and showing 3-way valve to be	It is a 3-way valve as mentioned in item #15 in BOQ.
	used within piping connection. We think that, 3-way valve is	
	correct because the design HVAC pumps are fixed speed not	
	variable speed. Kindly advice.	
	Mechanical Works	
	Drawing No. SA-03 (Heavy Water Site Plan): It is showing that,	
	the pipes between submersible pumps and water treatment	Use black steel pipes that are internally coated with Anti-
	plants is (100mm Black Steel pipe). First, black steel pipes is	Bacterial paint because of high pressure. During
13	not recommended for waste water piping network. Second,	implementation If there is an available alternative that
	the mentioned pipe type is not available in Sanitary Works	supports high pressure the contractor should Submit the
	BoQ. If these pipes are already existing at the site, they have to	data sheet for approval.
	be changed with suitable pipes (i.e. corrugated HDPE pipes or	
	other suitable types).	
	Mechanical Works	As Specified:
	For Air Cooled Packaged Units, except the BoQ items	Air Package Unit (25 ton) produces 100% fresh air and the
	description (Mechanical work A.C, item 43, 44 & 45) there is	Details of the unit are:
14	no any details for the units. Could you please provide more	- 100% fresh air package unit
	details as been provided for the other HVAC equipment.	- Air inlet temp. = 52 C
		- Air outlet temp from coil = 14C
		- Air quantity as in drawings = 3600 CFM

		 Total capacity = 25 TONS Total external pressure = not less than 300 pascal Humidity = 26 C°
		 Air Package Unit (18 ton) produces 100% fresh air and the Details of the unit are: 100% fresh air package unit Air inlet temp. = 52 c Air outlet temp from coil = 14c Air quantity as in drawings = 2600 cfm Total capacity = 18 tons. Total external pressure = not less than 300 pascal. Humidity = 26 C°.
		- 100% fresh air package unit
		- Air inlet temp. = 52 c
		 Air outlet temp from coll = 14c Air quantity as in drawings = 2200 cfm
		- Total capacity = 15 tons.
		 Total external pressure = not less than 300 pascal. Humidity = 26 C°.
15	ITB_804_18-BMS_Point_List-Amendment_No1- 24012019.xls: As per the ITB_804_18-BMS_Point_List- Amendment_No1-24012019.xls there are 36 each AHU control point. But as per ITB_804_18-Drawings-AC_and_ME- Amendment_No1-24012019.pdf/page 6 there are 31 each	It is 31 Points, attached please the revised points list.

	ITB_804_18-BMS_Point_List-Amednment_No1-			
16	24012019.xls: As per the ITB_804_18-BMS_Point_List-	There is difference between exhaust fans and air handling		
	Amednment_No1-24012019.xls there are 30 each exhaust	units AHUs. However the quantity of Exhaust fans counted		
	fan control point. But as per ITB_804_18-Drawings-	in Mech BOQ are 30 (refer to items 28.1 to 28.5) while that		
	AC_and_ME-Amendment_No1-24012019.pdf there are 36	for the AUH are 31, as mentioned in the point list		
	each AHU. Please clarify which quantity is correct.			
	ITB_804_18-Drawings-AC_and_ME-Amendment_No1-			
	24012019.pdf page 9 drawing name "COOLING & HEATING			
	EQUIPMENT IN MACHINE ROOM: As per the ITB_804_18-			
17	Drawings-AC_and_ME-Amendment_No1-24012019.pdf page	Please refer to the revised PMS point list		
1/	9 drawing name "COOLING & HEATING EQUIPMENT IN	Please refer to the revised bivis point list.		
	MACHINE ROOM there are 7 each exhaust fan but these are			
	not shown in point list please clarify if these fans to be added			
	in point list.			
	ITB_804_18-Drawings-BMS-Amendment_No1-24012019.pdf			
	.page 8: As per the ITB_804_18-Drawings-BMS-			
	Amendment_No1-24012019.pdf .page 8 FCU to be	The bidders are required to comply with the descriptions in		
	controlled by using Ittelligent Room Thermostat. The status			
	information will be sent to the BMS from the FCU fan motor,			
	and the FCU will be run from the BMS via the enable / disable			
	command. If we do this, it will need to connect to 211 Digital			
10	Input + 211 Digital Output BMS / DDC boards. This will result in			
10	a lot of cabling and a large number of DDC controllers, which	the BoQ, tech. specifications and the drawings.		
	will increase the cost of the project. Already An Intelligent			
	Room Thermostat will be used for each FCU so If this			
	thermostat is selected as the communication type, more			
	information / control point than the control and monitoring			
	shown on this page can be monitored and controlled by the			
	BMS.			
	It also reduce the project costs. Please advise ?			

19	 ITB_804_18-Drawings-BMS-Amendment_No1-24012019.pdf .page 8: Communication type intelligent room thermostat can also be used for FCU control in common areas . There will be more than one FCU in one location and the control of these FCUs from a single thermostat is not a problem. Controlling the FCUs from a single room thermostat and connecting the thermostat to the BMS via the communication channel is a solution that can be used for the monitoring and control of common area FCUs. Please see attached control diagram for and example. Please advice if this solition is acceptable. 					_No1-2 room the areas . ocation nostat is gle room 1S via th can be FCUs. Pl e. Please	The bidders are required to comply with the descriptions in the BoQ, tech. specifications and the drawings.		
	Electrical works: a- Power installation: Some item with "Set" and M.L units: for example: item no.1 is written: 1 set 1-3/c 25mm ² CU/XLPE/PVC Cable on cable tray. At the same time inUnit column mentioned M.L and in Qty column written with 125, that is mean we are putting the price for 1m multiply by 125 because we have 1 set and 125m as bellow:					-3/c 25n same tir n writte e for 1m as bellov		Yes, on other words the cable of 1 set-1-3/c, contractor shall consider the unit price of single cable 5\$/M.L	
20		#	Description 1 set 1-3/c 25mm ² CU/XL PE/PVC Cable on cable tray	Unit M.L	Qty 125	Unit Price 5	Total Price = 5x125		while 18 set-3cetc meaning a bundle of 18 cables of unit price (18x5\$)/M.L have been measured in M.L therefore, the contractor shall put the unit price of bundle of the cable (18x5\$)
	While for item no.22 is written: 18 set 1/c 300mm ² CU/XLPE/AWA/PVC Underground or on cable ladder / tray								

	At the same time in Unit column mentioned M.L and in Qty column written with 100, that is mean we are putting the price for 1m multiply by 100 and multiply by 18 because we have 18 set and 100m as bellow:							
	#	# Description	Unit	Qty	Unit Price	Total Price		
	-	L 1 set 1-3/c 25mm ² CU/XL PE/PVC Cable on cable tray	M.L	100	5	= 5x100 x18		
	Qu or t	estion is: is the abo here is another wa	ve underst y to calcula	anding contents the contents of the second sec	orrect fo ost? Plea	or both ca ase clarify	es	
21	As we know that the partial operation areas are required to keep the Hospital in operation that is mean temporary power with all needed facilities shall be provided. The question is; is there any cost consideration in this regards? Please clarify. We couldn't find it.							Please refer to the BOQ-General notes sheet "The bidders need to consider the cost of any temporary works needed to keep the hospital working during the renovation works"
22	 Regarding the required specifications of the doors as per the BOQ, drawings & technical specifications, kindly we noticed that the doors' requirements are so high (for example fire rated doors for 60 & 120 minutes) and much higher in quality than the existing doors in the hospital, while such doors are not available inside Iraq and need to be ordered from outside Iraq. So, please confirm that the doors will be according to the mentioned specifications and that no deviations will be accepted. 						The doors will be according to the mentioned specifications and that no deviations will be accepted.	