

تنويه
م/ المناقصة المرقمة 67/2025/22

أشارة الى المناقصة اعلاه نود اعلامكم ان المواصفات الفنية والتي تخص جهاز Heart Lung Bypass unit هي كما مثبتت في نسخة الاعلان النسخة العربي والمدرجة ادناه وليس كما ورد في النسخة الانكليزية.
... مع الاحترام .

Notice
Subj/ Tender no.: 67/2025/22

Dear Sirs:

Reference to a/m tender, pls note that the correct technical specifications for Heart Lung Bypass unit are stated in the Arabic copy of the tender & not in the English copy as following:

DEVICE NAME: HEART-LUNG BYPASS UNITS

- ❖ Application: Heart-lung bypass units are external systems that circulate, oxygenate, and filter the blood, acting as a temporary substitute for circulatory and pulmonary function. (often used for open-heart surgery).

Part I:

Occlusion adjustment	Any with lock
<u>Configuration</u>	<u>Modular/ console</u>
Pump positions	Max ≥ 4
Pump type : <ul style="list-style-type: none">- Centrifugal- Roller	Optional Yes <ul style="list-style-type: none">• Bidirectional : yes• Directional lock : yes
Drive system	direct drive or belt
Flow rate , L/min	0 - ≥ 10 arterial
Head size , cm:	≥ 8.5
Tubing sizes , cm	≥ 0.3
Master/ slave	<u>Yes</u>

❖ DISPLAYS (CHANNELS):	<ul style="list-style-type: none"> - Flow rate: Yes. - Temperature: ≤ 8. - Pressure: ≤ 8. - Timers: ≤ 6. - Cardioplegia monitor: Yes.
ALARMS	Yes, Audible and visual.
SAFETY DEVICES:	<ul style="list-style-type: none"> - Level detector: Yes . - Bubble detector: Yes ,Ultrasonic. - Roller pump-head covers: Yes.
❖ FEATURES:	<ul style="list-style-type: none"> - Pulsatile pumping: according to manufacturer. - Venous flow clamp: Yes. - Separated heater/ cooler: Yes. - Writing table: Yes. - Lamp: Yes. - Accessory outlets: Yes.
CONNECTORS	❖ : blood: inlet/outlet, others should be specified by manufacture.
PATIENT MONITOR INTERFACE	Yes.

NETWORK CONNECTION TYPE	Yes.
SELF DIAGNOSTICS	Yes.
Line power	(220 -240) Volt, 50 /60Hz, 3 pin Plug (G type).
AUX POWER SYSTEM	<ul style="list-style-type: none"> - Type: built-in Battery preferred or UPS - Operating time, hr: ≥ 1. - Charging time, hr: ≤ 16 - Manual crank: Yes.

Part II

COMPATIBLE OXYGENATORS	Yes.
TYPE	❖ Hollow-fiber membrane, other specified by manufacture.
Blood FLOW RATE, L/min	≤ 8
MEMBRANE	<ul style="list-style-type: none"> - Material: Polypropylene or Polymethylpentene or better. - Surface area, m²: ≤ 2.2 Coating: according to manufacturer
RESERVOIR	❖ (if needed) <ul style="list-style-type: none"> - Shell: Hard, other should be specified. - Capacity, mL: ≤ 4500.

STATIC PRIMING VOLUME, mL	: ≤ 400 .
INTEGRAL HEAT EXCHANGER	Yes.
SIZES AVAILABLE	(adult, pediatric type or infant) per user request.
Environmental requirements	❖ The equipment suitable for working in the climate conditions of Iraq in terms of temperature & humidity.

Thanks & Best Regards