MARIE STOPES ETHIOPIA
Children by choice, not chance

International Tender for Purchase of Medical Equipment

Marie Stopes International Ethiopia (MSIE) is a non-governmental and non-profit making organization that has been providing family planning (FP) and other Sexual and Reproductive Health (SRH) services in Ethiopia since 1990. Its vision is "*Children by Choice, not by Chance*". In line with this vision, it provides a comprehensive family planning and reproductive health services through MSIE static clinics, social franchising private networks, Public Facility Support (PFS) and Mobile Units

MSI Ethiopia would like to procure different medical equipment.

Accordingly, MSIE is looking forward to contract Manufacturers and potential suppliers who would be interested and capable to supply and therefore, invites all interested and eligible bidders to bid for this procurement.

1. Interested, qualified and eligible bidders are invited to collect the detailed items lists (TOR) from the Marie Stopes International Ethiopia head office located at Wello sefer, Ethio- China road in front of Tebaber Berta Building, from the reception desk during working hours starting from the date of first announcement. International bidders can request for bidding documents writing to biniyam.takele@mariestopes.org.et.
2. Bidders must submit Technical and Financial Proposals in two separately sealed envelopes (one for technical and one for financial) into the box ready for the bid on or before **14th September 2022, 10AM**. Other option for submitting completed bidding documents is to submit to a group email which will be communicated to all interested bidders. Bidding documents must be signed, and bidders are also required to submit legal documents (renewed business license, tax identification, value added tax registration certificate etc.…).
3. The tender will be opened on 14th September 2022, 10:00AM local time, in the presence of interested bidders' or their official representatives who may choose to attend at the conference room of MSIE

Address:

Marie Stopes International Ethiopia
Kirkos Sub City, Kebele 02
House No. 174
Addis Ababa
P.O. Box 5775
Tel: 011-5509307, 0115509250, Fax 0115509463
Wolo Sefer in front Tebaber Berta Building

Marie Stopes International Ethiopia (MSIE) reserves the right to deal with any supplier of its choice. MSIE is not bound to accept the lowest offer or any offers and reject any or all

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SECTION 2

INSTRUCTION TO OFFERORS/ITB/TOR

INTRODUCTION

1. General

a) Marie Stopes International Ethiopia (MSIE) invites proposals from suppliers for medical equipment purchases.

b) Period of Validity of Bids: Bids shall remain valid for 90 days after the date of Bid Submission prescribed by MSIE.

c) Offerors must strictly adhere to all the requirements of this ITB. No changes, substitutions or other alterations to the rules and provisions stipulated in this ITB may be made or assumed unless it is instructed or approved in writing by MSIE in the form of a supplementary note to the ITB.

d) Submission of a proposal will be deemed as an acknowledgement by the Offeror that all obligations stipulated by this RFP/ITB will be met and, unless specified otherwise, the Offeror has read, understood and agreed to all the instructions in this ITB>

e) **Marie Stopes International Ethiopia (MSIE**) is under no obligation to award a contract to any Offeror as a result of this ITB.

f) **Marie Stopes International Ethiopia (MSIE** implements a policy of zero tolerance on proscribed practices, including fraud, corruption, collusion and any other unethical practices. MSIE is committed to preventing, identifying and addressing all acts of fraud and corrupt practices.

g) Utmost confidentiality is expected from all Bidders. Bidders shall not disclose any information relating to MSIE to any other party without the prior written consent of MSIE.

SOLICITATION DOCUMENTS

2. Clarification of sollicitation documents

a) The Offerors are expected to examine all corresponding instructions, terms and specifications contained in the solicitation documents. Failure to comply with these documents will be at the Offeror's risk and may affect the evaluation of the Proposal/Bid.

b) A prospective Offeror requiring any clarification of the solicitation documents may contact MSIE in writing via email. MSIE shall respond in writing to any request for clarification of the solicitation documents prior to the deadline for the submission of Proposals/ Bids. Clarification may be sought in writing via email to:

Name: Biniyam Takele

Title of position: Procurement Officer at MSIE

c) MSIE shall respond in writing via email, and will electronically transmit copies of the response (including an explanation of the query but without identifying the source of inquiry) to all Offerors who have provided confirmation of their intention to submit a Proposal / Bid.

d) MSIE shall endeavor to provide responses to the requests for clarifications in an expeditious manner, but any delay in such response will not cause an obligation on the part of MSIE to extend the submission date of the Proposal, unless MSIE deem that such an extension is justified and necessary.

3. Amendment of solicitation documents

At any time prior to the deadline for submission of Proposals, MSIE may, for any reason, whether at their own initiative or in response to a clarification request, modify the solicitation documents by amendment.

In order to allow prospective Offerors reasonable time to take the amendments into account in preparing their offers, MSIE may, at their own discretion, extend the deadline for the submission of Proposals.

PREPARATION OF THE PROPOSALS

4. Language of the Proposal

The Proposals and all correspondence and documents relating to the Proposal exchanged by the Offerors and Marie stopes International Ethiopia (MSIE) shall be written in English.

5. Documents comprising the proposal

a) Technical Proposal, including supporting documentation to demonstrate that the Offeror meets all requirements.

b) Financial Proposal: indicating the prices/rates.

6. The Technical part of the Proposal

The Offerors shall structure the operational and technical part of their Proposals as follows:

1. Company profile
2. Certificate of incorporation
3. Tax clearance certificate
4. Certified audited books of accounts for the latest period 2020 to 2021
5. Valid Trading / Operating License
6. Evidence of previous and ongoing relevant contracts.
7. Terms and conditions
8. Detail specifications, brands and delivery date of the Equipment’s
9. FDA certificate of the country of Origin
10. All necessary Ethiopian Food And Drug Authority (EFDA) Registration certificates

for those suppliers registered in Ethiopia.

11. Other relevant quality certificates of each offered equipment's.

The above are to be submitted in a sealed envelope labelled **"Technical Document" to Marie Stopes International Ethiopia.**

7. Financial Proposal

Financial proposal clearly indicating the applicable rates, applicable levies, taxes and duties.

These should be quoted in FOB prices in USD or other international convertible currency.

This is to be submitted in a sealed envelope labelled **"Financial Proposal" to Marie Stopes International Ethiopia.**

Bid Security:

a) The Bidder shall furnish Birr 50,000 (Fifty thousand birr) or equivalent amount in foreign currency (USD or any other international convertible currency) as part of its Bid, a Bid Security to the Purchaser in cash payment order (CPO) or Bank guarantee which is valid at least for 90 days.
b) The Bid Security is to protect the Purchaser against the risk of the Bidder's conduct, which would warrant the security's forfeiture, pursuant to Clause (f) below.
c) Any Bid not secured in accordance with Clauses (a) above will be rejected by the Purchaser as non-responsive pursuant to Instructions to Bidders.
d) Unsuccessful Bidder's Bid Security will be discharged or returned as promptly as possible as but not later than thirty (30) days after the expiration of the period of Bid Validity prescribed by the Purchaser/MSIE/.
e) The successful Bidder's Bid Security will be discharged or returned upon the Bidder signing the Purchase contract agreement.
f) The Bid Security may be forfeited:

1) If a Bidder withdraws its offer during the period of the Bid Validity specified by the Bidder on the Bid Submission Form, or,
2) In the case of a successful Bidder, if the Bidder fails to sign the Purchase Order/contract agreement within 15 days of receipt of the purchase contract agreement.

8. Format and signing of Proposals

- a) The Offeror shall prepare and submit three hard copies of the Proposal clearly marking each "Original Proposal" and "Copy of Proposal" (1 and 2) as appropriate. In event of any discrepancy between them, the original will govern. The three copies of the Proposal shall be signed by a person or persons duly authorized to bind the Offeror to the contract. Soft copy bidding documents can also be submitted to a group email upon request.

SUBMISSION AND OPENING OF PROPOSALS

9. Sealing and labelling of Proposals

a) The Offerors should submit their Proposals in hard copies as instructed below:

i) **Offers comprising Technical Proposal and Financial Proposal, each contained in a separate sealed envelope, both sealed in one outer envelope**, should reach the following address no later than **14th September, 2022 at 10:00am.**

Marie Stopes International Ethiopia
Kirkos Sub City, Kebele 02
House No. 174
Addis Ababa
P.O. Box 5775
Tel: 011-5509307, 0115509250, Fax 0115509463

ii) It is important that the outer envelope is labelled as follows:

"To MSIE".

"NOT TO BE OPENED BY THE REGISTRY"

iii) **Both inner envelopes shall indicate the name and address of the Offeror**.

The first inner envelope will contain the Technical Proposal in three copies with the copies duly labelled "Original Proposal" and "Copy of Proposal" (1 and 2) as specified in Clause 8a above.

The second inner envelope will contain the Financial Proposal in three copies with the copies duly labelled "Original Proposal" and "Copy of Proposal" (1 and 2) as specified in Clause 8a above.

Note: If the inner envelopes are not sealed and labelled as per the instructions in this clause, MSIE will not assume responsibility for the Proposal's misplacement or premature opening.

Iv) Soft copy bidding documents can also be submitted to a group email upon request.

10. Deadline for submission of Proposals

Proposals must be received by MSIE at the address specified under Clause 9 no later than 14th September, 2022 at 10:00am.

MSIE may, at their own discretion, extend the deadline for the submission of Proposals by amending the solicitation documents in accordance with specifications under Clause 3, in which case all rights and obligations of MSIE and Offerors previously subject to the deadline will thereafter be subject to the deadline as extended.

11. Late Proposals

Any Proposal / Bid received by MSIE after the deadline for submission of Proposals/ Bids will be rejected.

OPENING AND EVALUATION OF PROPOSALS

12. Opening of Proposals / Bids

a) MSIE shall open the Proposals in accordance with their internal procedures and in the presence of the offerors or their representatives on **14th September, 2022 at 10:30am**.

b) The names of Offerors, the condition of the envelope seals, the number of folders/files, the documents sent via email and all other such details as MSIE may consider appropriate, will be announced at the opening. No Proposal/ Bid shall be rejected at the opening stage, except for late submission, for which the Proposal shall be returned unopened to the Offeror.

13. Preliminary examination

MSIE shall examine the Proposals / Bids to determine whether they are complete with respect to minimum documentary requirements, whether the documents have been properly signed, and whether the Proposals are generally in order, among other indicators that may be used at this stage. MSIE may reject any Proposal Bid at this stage.

14. Evaluation and comparison of Proposals

a) The evaluation committee shall review and evaluate the technical proposals on the basis of their responsiveness to the documentation provided.

b) The financial proposal evaluation shall be based on the applicable rates, applicable levies, taxes and duties.

c) A three stage procedure will be followed to evaluate the Proposals / Bids. Firstly, the mandatory criteria will be evaluated. Non-compliance with any of mandatory criteria will exclude the Offeror from further participation in the evaluation process.

Proposals / Bids meeting the mandatory criteria will continue to be evaluated in the next stage, which is the evaluation of the technical Proposal.

Offerors that pass the technical evaluation will continue to be evaluated in the last stage, which is the evaluation of the financial Proposal.

Mandatory Criteria:

- Company profile
- Certificate of incorporation
- Tax clearance certificate
- Certified audited books of accounts for the latest period 2020 to 2021
- Valid Trading / Operating Insurance License

Technical Criteria

- Evidence of previous and ongoing relevant contracts.
- Adherence to Specifications / Terms to Reference
- After sales services
- Terms and conditions
- EFDA registration certificates
- Other relevant quality certificates

Financial Criteria

- Applicable rates, applicable levies, taxes and duties.

15. Clarification of Proposals

a) To assist in the examination, evaluation and comparison of Proposals, MSIE may, at their discretion, ask any Offeror for a clarification of the Proposal.

b) MSIE's request for clarification and the response will be in writing. Notwithstanding the written communication, no change in the prices or substance of the Proposal will be sought, offered, or permitted, except to provide clarification, and confirm the correction of any arithmetic errors discovered by MSIE in the evaluation of the Proposals.

c) Any unsolicited clarification submitted by an Offeror in respect to the Proposal, which is not a response to a request by MSIE, will not be considered during the review and evaluation of the Proposals.

16. Responsiveness of Proposal

a) MSIE's determination of the responsiveness of a Proposal will be based on the contents of the Proposal itself.

b) A substantially responsive Proposal is one that conforms to all the terms, conditions and other requirements of the RFP/ITB without material deviation, reservation, or omission.

c) If a Proposal / Bid is not substantially responsive, it shall be rejected by MSIE and may not subsequently be made responsive by the Proposer by correction of the material deviation, reservation, or omission.

17. Nonconformities, reparable errors and omissions

a) Provided that a Proposal is substantially responsive, MSIE may waive any non-conformities or omissions in the Proposal that, in the opinion of MSIE, do not constitute a material deviation.

b) Provided that a Proposal is substantially responsive, MSIE may request the Offeror to submit necessary information or documentation, within a reasonable period of time, to rectify nonmaterial nonconformities or omissions in the Proposal related to documentation requirements. Such omission shall not be related to any aspect of the price of the Proposal. Failure of the Offeror to comply with the request may result in the rejection of the Proposal.

c) Provided that a Proposal is substantially responsive, MSIE shall correct arithmetical errors as follows:

i. If there is a discrepancy between the unit price and the line item total that is obtained by multiplying the unit price by the quantity, the unit price shall prevail and the line item total shall be corrected.

ii. If there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected.

If the Offeror does not accept the correction of errors made by MSIE, the Proposal will be rejected as non-responsive.

AWARD OF CONTRACT

18. Award criteria

a) MSIE reserves the right to accept or reject any Proposal, to render any or all of the Proposals as non-responsive, and to reject all Proposals at any time prior to award of contract, without incurring any liability, or obligation to inform the affected Proposer(s) of the grounds for MSIE's action. Furthermore, MSIE shall not be obliged to award the contract to the lowest price offer.

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ANNEX I – Terms of Reference OR Specifications

S #	Item Name	Specification	Unit	Qty	Company Preference	EFDA registration requirements
1	Semi Automated chemistry Analyzer	Light source: halogen lamp (6V/10W)0r LED Wavelength definition: 8 position filter wheel Wave lengths:340, 405, 505, 546, 578, 620 and670 nm standard, 1 optional Photometric range: 0.000 - 3.000 abs (resolution 0.001 abs) Linearity: r ≥ 0.999 Repeatability: cv < 0.5 % Measuring system: flow cell (32 µL), photometer cuvette,cuvette position sensor Cuvette/ flowcell holder: thermostatic (25°, 30°, 37°C) Calibration: factor, one or multi-point standard Measurement modes: end point, kinetic, two point kinetic absorbance, reagent and/or sample blank mono- or biochromatic tests Operation: 6 function and 4 cursor keys numeric keypad Display: 7‘‘TFT screen (touch screen optional) real-time absorbance curve, temperature and lamp status Options: keyboard, mouse, Printer: built-in thermoprinter Memory: 200 test protocols, 100.000 results Interfaces: RS-232, 4 x USB, SD card Power supply: 220 - 240 VAC, 50Hz Power consumption: max. 130 W Dimensions: Approximately W 420 x D 310 x H 152 mm Weight: Warranty: Not morethan7 kg 1 Year	Pcs	25		EFDA registration MANDATORY
2	Autoclave 40L	Electric • 220V. 50Hz. Single Phase Approx. Size (Dia. X H): • 350mm X 330mm + 90mm Lid. (14"x16") power • 2 KW Load Capacity (Ltrs.) • 40 Ltrs. With Lid • It should be constructed from heavy gauge aluminum. • It should generate steam under pressure and temperature between 120°C to 125°C. • Made from stainless Aluminum, top loading autoclaves. Seamless construction ensures bacteria free environment. • 25-30 minutes sterilizing cycle at 121º c. • With two stages over pressure protection system incorporating a calibrated continuous bleeding pressure stopcock and pressure release weight valve. • With heat resistant handles and steam release / control valve. • Pressure Gauge: Color coded pressure gauge showing internal chamber conditions during the cycle. • Sterilization zone in green color is shown from 15 psi to 20 psi (OR 1.034 bar to 1.378 bar) which is	Pcs	150		EFDA registration MANDATORY

		equivalent to temperature of 121°c to 127°c. • Dial size: 2.5". Dial show measurement in 2 units (i) kg/cm² (ii) lb/inch². Full scale dial of pressure gauge is 0-30 lb/ inch² or 0-2 kg/ cm². Caution zone in red color. • Supplied with inner & outer stand. • Standard at least CE certificate • Suitable for 11"x9" & 11"x4.5" Dressing/Sterilizing Drum • 1 Hr. Rotary Timer and Dressing/Sterilizing Drum • With one 2kw heating element, • Warranty :1 Year				
3	Autoclave 100L	Vertical Autoclave is a kind of high speed automatic autoclave which can sterilize instruments, textiles, liquid, rubber, glass utensils, etc. It is a good choice for clinical laboratory, stomatology, operating room Which Uses Gravity Displacement Autoclaving process	Pcs	4		EFDA registration requirements-Optional
4	Autoclave 100L	Vertical Autoclave is a kind of high speed automatic autoclave which can sterilize instruments, textiles, liquid, rubber, glass utensils, etc. It is a good choice for clinical laboratory, stomatology, operating room . Technical Specification - Microcomputer control; touch button;- Sterilizing programs specially designed for exposed appliances, appliance wraps, dressings, rubber, liquid, and so on;- With the positive pressure dynamic pulse exhausting function, cold air in the chamber can be throughly exhausted to ensure the saturation of the steam;- The sterilizing process is displayed in dynamic curves;- LED digitally displays the chamber temperature,- Time and error code alarms;- Built-in water tank; internal steam-water circulation;water level indicator,drainage,drying time- Optional printer.Safety Devices:- Over pressure protection - Door interlock device- Automatic safety valve- Circuit safety device-Heat-insulation door covervolume not less than 100L ,voltage 220V ,power not greater than 4.2Kw.the size may be greator for 100LGaskat as per volume, heating element as per the delivered autoclave type,power on/of swich,power cable	Pcs	4		EFDA registration requirment - OPTIONAL

5	Autoclave 25 liter	• TEMPERATURE:121-134 degree centigrade • Material: stainless stell • Chamber capacity:25L • Warranty 12month • Pressure gauge type: analog • Working pressure :up to 2opsi • Power consumption:2KW • MAXIMUM PRESURE:15 PSI/12PSI • Standard: One of internationally accepted ISO • Document: user and service manuals in English. • Warranty minimum 1 year • Accessories:x1 2kw heating element	Pcs	100		EFDA registration MANDATORY
6	Anesthesia Machine	Dimensions • Height: not higher than 130cm • Width not more than 75 cm • Depth: not more 75 cm • Weight: approximately not more than140 kg Advanced Breathing System • One step bag/vent switch turns the ventilator on/off • Minimal number of parts and tube connections greatly reduces the potential for leaks and misconnects • Ease of disassembly • Fully autoclavable and latex-free Ventilation Operating Modes include at least the followings • VCV • PCV • SIMV/PSV Ventilator (VT) Parameter Ranges • Tidal volume range: 20 to 1500 mL (Volume Control SIMV/PSV and PCV-VG modes); 5 to 1500 mL (Pressure Control Mode) • Incremental settings: 20 to 50 mL (increments of 1 mL); 50 to 100 mL(increments of 5 mL); 100 to 300 mL (increments of 10 mL); 300 to 1000 mL (increments of 25 mL); 1000 to 1500 mL (increments of 50 mL) • Minute volume range: 0 to 99.9 L/min • Pressure ($P_{Inspired}$) range: 5 to 60 cm H2O (increments of 1 cm H2O)	Pcs	2	Mindray	EFDA registration requirement - OPTIONAL

		• Pressure (P_{limit}) range: 12 to 100 cm H2O (increments of 1 cm H2O) • Pressure ($P_{support}$) range: Off, 2 to 40 cm H2O (increments of 1 cm H2O) • Rate: 4 to 100 breaths per minute for PCV-VG, Volume Control and Pressure Control vent modes. 2 to 60 breaths per minute for SIMV/PSV, PSVPro and SIMV vent modes (increments of 1 breath per minute). • Inspiratory/expiratory ratio: 2:1 to 1:8 (increments of 0.5) • Inspiratory time: 0.2 to 5.0 seconds (increments of 0.1 seconds) (SIMV and PSV Pro vent modes) • Inspiration termination level: 5 to 75% (increments of 5%) • Backup mode delay: 10 to 30 seconds (increments of 5 seconds) Positive End Expiratory Pressure (PEEP) • Type: Integrated, electronically controlled • Range: OFF, 4 to 30 cm H2O (increments of 1 cm H2O) Ventilator performance • Pressure range at inlet: 240 kPa to 700 kPa; 35 psi to 100 psi • Peak gas flow: 120 L/min + fresh gas flow • Flow valve range: 1 to 120 L/min Ventilator monitoring • Expiratory minute volume range: 0 to 99.9/min • Expiratory tidal volume range: 0 to > 1500 mL • O2%: < 5 to 100% • Peak pressure: –at the range of 20 to 120 cm H2O • Mean pressure: – at the range of 20 to 120 cm H2O • Plateau pressure: at the range of 0 to 120 cm H2O Delivery and Monitoring Accuracy • Volume delivery: > 210 mL = better than 7%; < 210 mL = better than 15 mL; < 60 mL = better than 10 mL				

		• Pressure delivery: ±10% or ±3 cm H2O • PEEP delivery: ±1.5 cm H2O • Volume monitoring: > 210 mL = better than 9%; < 210 mL = better than 18 mL; < 60 mL = better than 10 mL • Pressure monitoring: ±5% or ±2 cm H2O Operating Environmental Specifications • Temperature: 10° to 40°C/50° to 104°F • Humidity: 15 to 95% relative humidity				
7	Ultrasound B/W	• Origin- should be mentioned • 12.1-inch LED Monitor with Full Screen Design • Dual transducer connector • THI (Tissue Harmonic Imaging) • 8GB SSD standard storage space & iStation™ Patient Information Management • Imaging modes: B/2B/4B/M/B+M • 8-segment TGC • Auto Image Optimization • ExFOV imaging • Speckle Suppression Imaging • Measurement & calculation software packages • Totorial function • Smart Installment Reminder • Pulse Wave Doppler A • DICOM Basic function, includes DICOM print and DICOM storage function • DICOM Worklist function, DICOM Basic should be configured at the same time • Li-ion Battery • Convex array transducer • Linear array transducer • Digital/Analog printer with EU power cord, include BNC connector • Standard: One of internationally accepted ISO • Document: user and service manuals in English. • Warranty minimum 1 year	pcs	15		EFDA registration MANDATORY

8	CTG/ Fetal Monitor/	Description for CTG Machine/Fetal Monitor/ Description for CTG Machine/Fetal Monitor/ - Origin- should be mentioned -Print out ECGs in multiple formats, including 12, 6 and 3 channel reports. - Supports USB flash drive. - 12-channel interpretive ECG with large 7" color TFT LCD touch screen. - Prints on full size paper. - Built in rechargeable battery. - 5 minute long term recording. - Memory Capability up to 120 Patients. - Pediatric Diagnosis & Audible QRS. - One-touch operation (monitoring, recording mode) - Real-time preview monitor. - 12-channel simultaneous display. - Hi-resolution color TF LCD (800 x 480) - Touch screen for easy operation - Adaptable UI (Portrait and Landscape Mode) - Rotary key access to all menus -1X additional probes	Pcs	2	Bionet	EFDA registration requirement - OPTIONAL
9	Infant Radiant Warmer	Description for Baby Warmer or Over head heater - Large LCD for easy visibility to be displayed and can be re-program for further changes in set parameters. - Two different factory calibrated sensor probes can be interred changed and used with best quality silicone wire for one lasting durability and easily to clean. - Better construction of heater unit for safe smooth and efficient - All audio and visual alarms are created for insuring the patient safety due to system failure and monitoring system of the unit audio visually flashes on screen and alerted - Fitted with four anti-static casters for easily mobility and lower gravity to insure the movements less stability and two casters are locked by brakes while not in movement. - Skin/Air/Manual (LCD) - LED Bright FND, Skin Temp Display LED Bright FND, Air Temp Display - LED bar for heater output % display - SET Temp display on FND/LCD by mode selection - All modes display on LCD - Preffered brand Lullaby GE health care -Portable type	Pcs	2	GE Health Care/ Lullaby Wramer	EFDA registration requirement - OPTIONAL

10	Multi para Patient Monitor for Adult	• -Portable vital sign monitor, suitable for all patient categories: neonatal, infant and adult • Bedside unit can be mounted on standard bed/wall rail and mobile pole/stand • Robust design allows use in demanding environments • Parameters monitored: ECG,SpO2, NIBP accessories: 1 x NIBP hose , adult 1 x Blood pressure cuff (adult) -Pulse Oximetry (SpO2) sensors with cable and plug: 2 x Adult size, reusable clip-on type -power supply:220-240V ac	Pcs	4		EFDA registration requirement - OPTIONAL
11	Hematology Machine/CBC machine/	• Fully automated • Display Large color LCD display touch screen • Resolution:800 x 600 • Alarms-41 error messages Carryover-WBC, RBC, HGB-0.5%, PLT-1 %Input output RS232 x 2, 1 parallel printer inbuilt, bar code scanner (optional) • 1 keyboard interface • Printout ThermaI recorde, 50 mm wide paper, multitude of printout formats, printer optional • Operating Environment-Temperature 15°C~30°CHumidity 30%~85 %Power Requirement-AC 100-240V, 50/60HzDimension-390 (W) x 460 (H) x 400 (D) • Weight-not more than 2 1 Kg • Parameters: WBC , Lymph # , Mid # , Gran # , Lymph# , Mid % , Gran % , Lymph % ,RBC , HGB , HCT, MCV , MCH , MCHC , RDW-CV , RDW-SD , PLT , MPV ,PDW , PCT and Histogram for WBC , RBC , PLT • Principles Electrical impedance method for counting and cyanide free method for hemoglobin • Performance Parameter Linearity Range Precision (CV %)WBC (10_/ L) 0.3-99.9 2.5 (7.0-15.0)RBC (10__ / L) 0 . 20 –8.00 2 (3.50 -6 . 00)HGB (g / L) 10-250 1 . 5 (110 -180)MCV(fL) 0 . 5 (80.0-11 0.0)PLT (10_ / L) 10-99 9 5 (150-500) • Sample Volume-Prediluted 20 µL, Whole blood 13 µL • Aperture/another latest technology instead of aperture Diameter-WBC 100 µm, RBC / PLT 70 µm dilution Rations Whole Blood Capillary Blood WBC / HGB 1 :	Pcs	2	Open Reagent system/ Which can use different brands of CBC reagents/	EFDA registration requirement - OPTIONAL

		308 1 : 428RBC / PLT 1:44872 1:43355 • Throughput-atleast 60 samples per hour				
12	Doppler colored Ultrasound-3D	Wide Dynamic Range Digital Front-end The 12-bit A/D converter Multi-beam processing. Image Display Modes B: gray-scale imaging, M,D: Spectral Doppler (PW,HPRF PW), Flow: Color Doppler and Power Flow imaging, Dual B,B and M, B and D, B(Flow), Dual B (Flow), M(Flow), B(Flow) and M(Flow), B(Flow) and D, Triplex mode: B, Flow and PW Doppler simultaneous real-time display, Dual Dynamic Display (DDD): B and B (Flow) simultaneous real-time display, TDI (Tissue Doppler Imaging)-Available on electronic scanning probes. Request function: In multi-mode display, it is possible to select one image for full screen display. DMS(Integrated Data Management System) Measurement and Analysis. General measurements :On B-mode image, On M-mode image ,On spectral Doppler ,On B/D-mode image On B(Fiow) mode image Obstétrical measurements & calculations Gynecological measurements & calculations Peripheral vessels analysis Urological measurements & calculations Abdominal measurements Report Functions Data Communication Function Preset Function Characters and graphic displays Probe connectors :Standard (Active connectors: 2	Pcs	4	Mindray	EFDA registration requirement - OPTIONAL

		connectors Dummy connector for rest: 1 connector Viewing Monitor 15-inch diagonal color Liquid Crystal Display with brightness and contrast controls Acoustic Power 0 to 100%, changeable Environmental Requirements Temperature: +10 to +40 degrees C ,Relative Humidity: 30 to 75% Power Requirements: 220V / 50 Hz. Probes General abdomen OB/GYN 2.5-6.0 MHz,. Small parts, PV (steered linear) 5.0-10.0 MHz. Adult heart (harmonic echo) 2.1-3.8 MHz.				

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ANNEX II – Quotation Format

Name of Supplier_____
Date_____

S#	Item	Unit	Estimated Quantity	Unit price $ (or int. convertible currency) FOB	Total price $ (or convertible international currency) FOB	Estimated delivery time	Remark
1	Semi Automated chemistry Analyzer Machine	Pcs	25				
2	Autoclave 40L	Pcs	150				
3	Autoclave 100L	Pcs	4				Which uses Gravity displacement Process
4	Autoclave 100L	Pcs	4				Pressure cook type
5	Autoclave 25 liter	Pcs	100				
6	Anesthesia Machine	Pcs	2				Preferred brand Mindray
7	Ultrasound Black and white	pcs	15				
8	Ultrasound color doppler machine	Pcs	4				3D, preferred brand Mindray
9	CTG machine (Fetal Monitor)	Pcs	2				Preferred brand Bionet
10	Radiant warmer (for NICU)	Pcs	4				Preferred brand GE/Lullaby
11	Multipara monitor machine for adult	Pcs	4				
12	CBC machine	Pcs	2				Open system
13	Infant C-Pap machine (for postive continious air way pressure)	Pcs	1				

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