



Date: September 2, 2021
To: All Bidders
Ref: Invitation to Bid (ITB) for Procurement of Laboratory Equipment (Portable X-ray system with AI), ITB Ref. Number: icddr,b/SCM/OTM/2021/39/NS-21-3178 dated Date of Publication: 22nd August 2021

Pre-Bid Meeting was held on August 26, 2021 at 12.00pm through Microsoft teams

Sub: Addendum no. 2

Dear All,

Reference discussion in the pre-bid meeting held on August 26,2021 in subject mentioned proposal, the following decisions were made in the pre- bid meeting.

	Specification of Portable X-ray system with AI	
1	Computer aided detection technology with Portable X-ray system to screen and triage TB	12 unit
	Core components are: <ol style="list-style-type: none">1. X-ray generator2. Generator stand3. X-ray detector4. Detector stand5. Work station with imaging processing software6. Built-in batteries to support X-ray generator, X-ray detector, console laptop and CAD device for on line and offline.7. Carrying bag8. Power bank9. External charger10. Lead apron (0.5 mm lead protection)	
	X-ray generator	
	Output power : 400W or higher	
	Voltage range : 50- 90 KV or better	
	Maximum Filament : Minimum 5mA	
	Anode : Stationary anode with 0.8mm focuses spot and heat storage capacity of 9 KHU or Higher	
	Collimator : Multi leaf collimator with light source and pointer. Total filtration 2.5 mm @ 70KV or better	
	Exposure time range : 0.04 to 0.5 seconds with steps or better	
	X-ray detector	

Alam Khan



Active Detector area	: 35 X 43cm or batter
Pixel matrix	: 2800 X 2300 or better
Pixel pitch	: 140 µm or better
Connection type	: Wireless (must) and both wireless/wired option preferred
Workstation Laptop	
Display	: Minimum 13.5±0.5" color display, 2M pixel
Software	: Remote assistance, diagnostic, training and troubleshooting facility
RAM	: Minimum 8GB
Hard drive	: Minimum 250 GB SSD
Storage capacity	: Minimum 2000 images
Software feature	: Patient registration, Patient data, exposure parameter regulation, viewing, image processing, details enhancement, noise suppression, tissue equalization, available option for different thickness patent
Store and transfer data	: Facility to transfer images to external storage device for backup
Compatibility	: DICOM 3.0, JPEG and PNG
Power	: 220V, 50Hz, Single phase
Total weighty	: 33Kg, maximum
Exposure capacity fully charged:	Minimum 100 exposure
Installation	: Supplier will install the equipment and validate. Provide training to user on operation and routine maintenance
Country of origin and manufacturer: USA or Bidder must comply with the guidance of eligible commodities (ADS 312), source and origin (ADS 310), and 22 CFR part 228 Rules on Procurement of Commodities: (https://www.usaid.gov/sites/default/files/documents/1876/312.pdf) (https://pdf.usaid.gov/pdf_docs/PDACQ310.pdf)	
Warranty	: Minimum three years for the system from the date of installation including parts, consumables, service, labor, shipment cost, personnel transportation, all software's, software patches, up gradation etc
Computer aided TB detection software	

[Handwritten signatures]



<p>In accordance with the World Health Organization (WHO) recommendation that reads "Among individuals aged 15 years and older in populations in which TB screening is recommended, computer-aided detection software programmes may be used in place of human readers for interpreting digital chest X-rays for screening and triage for TB disease", the program aims to utilize computer aided TB detection software in conjunction with the X-ray machines. The software should have CE Mark or US FDA approval or should have approval from authorized regulatory bodies in the country or outside. The AI software should also have demonstrated use in reading and providing an automated and standardized interpretation of digital chest X-Rays based on Artificial intelligence (AI) for TB detection. The products that were part of the relevant WHO technical evaluation or listed as an approved product in Global Drug Facility catalog will be preferred. Perpetual license with unlimited readings for both online and offline use is sought. The offer must include any and all accessories required for performing TB screening offline. The product should be independent of machines. However, it must have demonstrated compatibility testing report with the offered X-ray machine. Ability to capture patient details offline and sync with cloud for details such as risk factors and symptoms would be an advantage. A perpetual license with minimum three years free maintenance support with free of cost version updates as and when released are required.</p>	
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SECTION II. Tender DATA SHEET

- Under **-ITT-13.1:** OEM authentication for this bidding (where applicable) instead of existing
- **ITT 28.1(b):** OEM authentication is: "*required*". instead of existing
- Proposal Submission date is extended upto September 09, 2021 till 3.00pm(BST) instead of existing
- VAT will be calculated and mentioned in separate Column

This addendum is integrated part of the Tender Document. All others terms & condition in Tender Document will remain unchanged.

Pre-Tender meeting minutes will be published on icddr,b website to be available for all interested renderers.

Thanks for your cooperation

(Qayyum Khan Mahbub)
Senior Manager, Procurement
SCM, Support Services, icddr,b

(Dr. Azharul Islam Khan)
Head, Administration Team,
ACTB [Lead, SEC]