

Government of Pakistan  
PAKISTAN ORDNANCE FACTORIES  
TENDER ENQUIR

Dear Sirs,

Reference: TENDER ENQUIRY NO. 4145-EM-24(04)-FP-PUR-HOSP DATED 26.03.2025

You are requested to submit sealed quotations for the item(s) NOTED ON THE Schedule to the Tender. Please note the following instructions for filling the tender:-

1. SUBMISSION OF TENDER

- 1.1 TENDERS WILL BE OPENED AT 1200 HOURS ON 29-04-2025 IN BID CENTER ADJACENT TO RABITA HALL POF WAH CANTT AND MUST REACH BID CENTER ON OR BEFORE 11.30 HOURS ON DUE DATE. The tender received late will not be entertained. You may witness the opening of the tender if you so desire. If a representative is deputed, he should bring a letter of authority from you.
- 1.2 Only one tender should be included in one envelope. The outside of the envelope should be inscribed with-

Tender Enquiry No: 4145-EM-24(04)-FP-PUR-HOSP

Tender to be opened on: 29-04-2025 AT 1200 Hrs

Address as follows: The Bids received By Post will be endorsed with following address along with T.E No. & opening date.

I/C C.R. Section C-04,  
POF WAH CANTT

In addition to it, the bids "By Hand" will also be received in the Bid Center till 30 mints before the time of Bid opening Bid will be received in POF Hospital.

Tender in favour of: DY.COMMNADANT-POF-HOSPITAL  
POF WAH CANTT. (PAKISTAN)

2. GENERAL INSTRUCTIONS REGARDING PREPERATION OF QUOTATIONS

2.1 For materials, the prices should be filled in column 5 and delivery date in column 6 of the schedule to this Tender Enquiry. As per PPRA Rule 36(b) i.e Single stage two envelope will be utilized for "Open competitive Bidding". Moreover, technical and Commercial evaluation of bids will be carried out strictly as per PPRA rules and contracts will be awarded to the most advantageous bidder(s).

2.2 (IMPORTANT) For plant and Machinery, you are required to quote in two parts:-

**Part-I "Technical Offer"**: It should exclusively give technical details and literatures/brochures of the offered plant, machinery and equipment; validity date; delivery schedule; signed undertaking given on the schedule to this Tender Enquiry. It must not indicate price, costs etc.

**Part II "Commercial Offer"**: It should indicate the commercial terms e.g. price, terms of payment, mode of payment, mode of supply.

Each part should be placed in a separate sealed cover. The envelopes should be inscribed with: Part I **"Technical Quotation without price"** and Part II **"Commercial Quotation with Price"**.

2.3 The quotation must remain valid for, at least 90 days from the date of opening of commercial tenders, extendable if so desired.

2.4 The quotations should hold good for any reduced or enhanced quantities without notice.

2.5 In the event of non-acceptance of offer, intimation may be given to the tenderers on their request.

2.6 Conditional offers or alternative offers are likely to be ignored.

2.7 Quotations should be based on FOB. The consignment will be shipped through Pakistan National Shipping Corporation (PNSC). In case there is no PNSC service in the country of shipping, please quote on C&F basis. The freight should be indicated separately. Insurance premium should not be included in the quoted price. However, where insurance is considered necessary, advice to that effect should be given in the quotation.

2.8 Submission of the offer through an agent in Pakistan should be avoided. In case it is considered inevitable, the agent's quotation must invariably be accompanied by the original proforma invoice from the principals/manufacturers. Offer submitted by manufacturers/principals will be entertained and respective OEM must be submitted authorization certificate about their sole distributors/ local representative in Pakistan.

2.9 Country of origin and port of shipment to be stated.

2.10 If the requisite information is not furnished on the T.E forms or offer received is not in conformity with the requirement of T.E, such offer shall be ignored.

2.11 The supplier will render necessary information regarding hazardous effects on environment of the material/products supplied by them, alongwith dispatch documents.

2.12 Please ensure fulfillment of condition specified in sub para 2.2 alongwith other conditions.

### 3. INSPECTION

3.1 Supplies shall be subject to the inspection and acceptance by the competent inspection authority nominated by the Purchaser, who will arrange it at his own cost. Inspection facilities such as tools, test equipment, instruments etc will, however, be provided by the suppliers in accordance with the relevant specifications.

3.2 Where considered necessary by the Purchaser, the stores may be obtained on Warranty/Guarantee, subject to inspection on receipt. Rejected stores will be removed and replaced with the acceptable stores by the supplier at his own expense, within a specified time.

### 4 TENDER FEE

The Tender must be accompanied by a non-refundable fee by means of a crossed postal order/ pay order for Rs 500/- in favour of Director Admin POFs Wah Cantt. **Tenders Received without tender Fee will be rejected in tender opening.**

### 5 ACCEPTANCE OF OFFERS

5.1.1 The procuring agency may reject all bids or proposals at any time prior to the acceptance of a bid or proposal. The procuring agency shall upon request communicate to any supplier or contractor who submitted a bid or proposal, the grounds for its rejection of all bids or proposals, but is not required to justify those grounds.

5.1.2 Procuring agency shall incur no liability, solely by virtue of its invoking sub-rule (1.1) towards suppliers or contractors who have submitted bids or proposals.

5.1.3 Notice of the rejection of all bids or proposals shall be given promptly to all suppliers or contractors that submitted bids or proposals.

### 5.2 PERFORMANCE BOND

(a) The successful bidders will provide Performance Bond at the rate upto 10% of F.O.B. value of contract in favour of the Controller Military Accounts (CMA) POF Wah Cantt. The Performance Bond will be furnished in the form of an unconditional bank guarantee on prescribed proforma covered by any scheduled bank in Pakistan. The Performance Bond shall be furnished within 45 days from the date of opening of Letter of Credit. It shall be valid for a period of 03 years after the date of expiry of letter of credit. If the Performance Bond is not furnished within the prescribed time of 45 days, the Purchaser reserves the right to:

i. Impose penalty @ 1 % per month of the value of CDR/BG.  
(Clause-4.2 (a i) is not applicable in case of procurement of Plant / Equipment / Machinery items)

OR

ii. Cancel the contract and make other arrangements for purchase of the stores at the risk and expense of the Supplier.

(b) No Performance Bond will be required if the total FOB value of the contract is less than US \$ 50,000 and contract is placed directly on the foreign Supplier.

### 5.3 FAILURE TO SUPPLY THE STORES

All deliveries must be completed by the specified date. If the failure to deliver the stores within the scheduled time should have arisen from "Force Majeure", which the Purchaser may admit as reasonable ground for further time, he will allow such additional time as he may consider to have been required by the circumstances of the case. Otherwise, he will be entitled, at his discretion, to cancel the contract; and/or, claim liquidated damages upto 2% but not less than 1% of the contract price of the items and their quantities for each and every month or part of a month, beyond the specified delivery date, during which these may not be delivered, subject to a maximum of 10% of the total contract value; or, to purchase, from elsewhere, the unsupplied stores at the risk and cost of the Supplier.

### 5.4 PAYMENT

Payment will normally be made by means of irrevocable letter of credit in the following terms and conditions

- a. 70% payment will be released on submission of Dispatch documents to Bank.
- b. Balance 30% payment will be released after successful installation and commissioning & Successful final acceptance Test (FAT).
- c. All Bank charges incurred in Pakistan in connection with the establishment of L.C. will be borne by the Purchaser, whereas all Bank charges incurred in connection with drawing of payment including charges for confirmation of L.C. by the advising Bank/Foreign Bank will be borne by the Supplier.

### 6. BID MONEY

6.1 A copy of Bid Security should accompany the tender in shape of deposit at Call Receipt / Pay order / Banker Cheque from scheduled bank drawn in favour of:-

Dy. Commandant-POF Hospital Wahcantt

6.2 Bid Security instrument in original must be provide on the day / Date of tender opening in the bid center as under:

- a. Registered/ indexed firms including foreign firms - 2% of quoted value subject to the maximum ceiling of Rs. 0.5 Mn.
- b. Registered/ un-indexed firms including foreign firms - 3% of quoted value subject to the maximum ceiling of Rs. 0.75 Mn.
- c. Un-Registered firms including foreign firms - 5% of quoted value subject to the maximum ceiling of Rs. 1.00 Mn.
- d. Gov. organization/ Production units/ state owned enterprises / welfare projects of svcs HQ- Rs. 0.5Mn.
- e. Bid money will be returned to unsuccessful (less first three lowest quote firms) bidders on opening of Commercial offers.
- f. Bid money will be returned to successful bidders on submission of performance bond/ unconditional B.G.

- g. Bid money will be forfeited in case quotation is withdrawn before the expiry of its validity date.
- h. Bid money should accompany the tender in the shape of Deposit at Call Receipt/Pay Order/Banker's cheque, from a scheduled Bank drawn in favour of **Dy. Commandant-POF Hospital.**

**Note: Tenders received without Bid Money will be rejected in tender opening.**

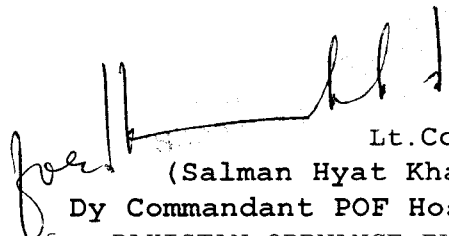
7. **SECURITY OF INFORMATION**

The Tenderers and his employees must not communicate any information relating to the sale/purchase of stores under this enquiry to any person other than the manufacturer or to any press or agent not authorized in writing by POFs to receive it.

**WARNING**

In case the firm abstain from making offers or fail to return/acknowledge the tender form by the specified date on three consecutive occasions, no further tender enquiry may be issued to them and their names would liable to be removed from the approved list.

Yours faithfully,

  
Lt.Col  
(Salman Hyat Khan)  
Dy Commandant POF Hospital  
for PAKISTAN ORDNANCE FACTORIE

## PAKISTAN ORDNANCE FACTORIES

SCHEDULE TO TENDER ENQUIRY NO. 4145-EM-24 (04) -FP-PUR-HOSP

DATE 26.03.2025.

(1) **FOR MATERIALS**

(01)	(02)	(03)	(04)	(05)		(06)
Item No	Description with Spec etc."	Unit	Quantity	Price FOB	Price C & F	Delivery Date
1.	<b>Detail of Machinery:-</b> CT Scan MACHINE (128 Slice Multi Detector) alongwith complete system Attached as Annexure-"A'	No.	01			Immediate

(2) **For Plant & Machinery: -**

(3) **SPECIAL CONDITIONS.**

- i) Participants /bidders are obligatory to forward necessary credentials of their firm showing/ elaborating details of their business with govt. / semi govt. & public sector organization/ departments of Pakistan along with their quotation.
- ii) Only those firms may participate in the bid who can arrange export license at their own end please.
- iii) Draft ATPs for inspection of the offered store will be Provided along-with the offer, ATPs will be finalized before signing of contract. Final ATP will be made part of contract.
- iv) In offer giving any inspection other than specified inspection will not be accepted.
- v) The store must be protected adequately and appropriately against damages from Environmental effects water or other substance during journey/transportation to withstand the rough handling involved in the transit and provide preservation of store while held in the storage by the supplier.
- vi) Any quantity of store, if found defective functionally, will essential be replaced by replaced by the supplier free of cost under his own arrangements.
- vii) Rate and Taxes/ freight (air & sea) must be shown separately otherwise rate will be considered inclusive of Taxes/ Freight (air & sea).
- viii) Validity of offer i.e. 90 days will be considered from the date of commercial opening (i.e. T.E Part-II)
- ix) All conditions (General & special) mentioned in the T.E must be carefully studied & confirmed. Offers received in contravention to the condition laid out in the TE are liable to be rejected with forfeiture of Bid security.
- x) T.E Form, duly signed & stamped on each page must be submitted along with the bid/ proposal.
- xi) All participant bidders must indicate the life of equipment.
- xii) All participant bidders must provide a list of consumables with replacement time frame and cost.
- xiii) All participant bidders must provide a list of essential spares with cost that are required to be replaced after certain time perid/ operational hours. Relevant time period/ operational hours must be mentioned.
- xiv) Proforma invoice of the principal in original signed and stamped by the principal alongwith authorization certificate in case of any local agent in Pakistan.
- xv) The bidder will also provide detail of cases, which are under process with Govt. & Non-Govt organization of Pakistan.

- xvi) Also intimate the worldwide business detail, experience, and detail of similar Plant / machinery supplied worldwide with their financial value and references.
- xvii) Submit original offer directly to bid center without using E-bidding.

(9) UNDERTAKING

Should our offer be accepted, we hereby undertake to supply the stores/render the services contracted on the basis of Conditions of Contract embodied in Form POF 1280, and to deposit the performance bond within the prescribed time, failing which it will constitute a breach of contract, and POF will have the right to purchase the stores/services elsewhere at our risk and cost.

Place \_\_\_\_\_ Signature of the Tenderer \_\_\_\_\_

Date \_\_\_\_\_ Name \_\_\_\_\_

Position \_\_\_\_\_ Address \_\_\_\_\_

Income Tax G.I.R No. \_\_\_\_\_

## Detail of Machinery:

**CT Scan machine (128 Slice Whole body Multi Detector) alongwith complete system****(Qty: 01 No.)****Specification:**

- i. Offered machine shall be latest higher end model (Top of the line) with deep learning based algorithm as per POF required no. of slices, Hardware / software and specifications.
- ii. Country of origin & manufacturer of quoted machine / model must be Europe, USA & Japan
- iii. Manufacturer Warranty / Guarantee of the quoted machine shall be **05 years** comprehensive (from the date of installation). This will also include free replacement of CT Tube head besides other parts (if required). The vendor will be responsible for maintenance and up keeping of complete system during warranty / guarantee period.

**1. GANTRY:**

- i. System should be capable of generating / reconstructing / acquiring 128 slices per gantry rotation or more in real time.
- ii. Gantry bore to be at least 70 cm or more (higher bore will be preferred)
- iii. Minimum gantry rotation speed to be at least 0.35 sec or better for 128 slices per 360 degree rotation or better for all applications.
- iv. System should be able to acquire helical spiral/ Axial scan / sequential scan with the gantry tilted from the vertical.
- v. Gantry tilt (Mech./Physical) range must be  $\pm 30$  degree.
- vi. Minimum slice thickness of 0.625 mm or better in Helical mode.
- vii. Minimum field of view to be 50 cm or better. For paed & children the system should be able to reduce the field of view.
- viii. Dual control from gantry housing and console.
- ix. Note: All the firms should quote their latest model scanner (acquiring / generating 128 slices or more) with shortest rotation time breath holding time (5 sec) or less in cardiac scan.
- x. AI assisted automatic patient scan positioning availability.
- xi. AI assisted automatic scan planning with all parameters for all routine exams.

**2. X-RAY TUBE:**

- i. Anode Heat storage capacity of at least 7.0 MHU or better.
- ii. Anode heat dissipation rate 1200 KHU/min to 1500KHU
- iii. High performance X-ray tube with current handling capability at least 550mA to 660mA.
- iv. Tube Voltage Range: 70 – 135/140 kV or better.
- v. High performance CT X-ray tube with latest liquid metal bearing technology.

**3. GENERATOR:**

- i. High frequency power generator with minimum power of at least 72KW or more
- ii. should be capable of variable kV setting in steps from 70 to 140 KVP
- iii. Should have ability to vary the power (mAs) automatically in steps Real-time dose reduction hardware / software and with ECG modulation Iterative dose reduction must be offered.
- iv. Low contrast detectability (LCD) calculated on a CATPHAN 20 cm, of 5mm resolution with a CT number of 3 HU (0.3%) or better, contrast difference.
- v. Maximum Scan Time 120sec. or better.

**4. DETECTORS:**

- i. Solid state crystal / ceramic detectors (preferably CSI) with conversion efficiency of nearly 98% (X-ray to signal strength), latest material / technology.
- ii. Minimum 64 rows physical detectors or more and detector electronics capable of providing 128 slices or more per gantry rotation in real time.
- iii. Detector's width should be 40mm (4cm) or better.

*Spec. as per POF*  
*Ch. S. S.*



5. ✓ **TABLE/ COUCH:**

- i. Dual motorized control (from console & gantry) of table movements in horizontal and vertical axis.
- ii. Single acquisitions scan range of at least 1.65 meters or more for helical or axial scan.
- iii. Scans with at least 0.25 mm accuracy on a 200 Kg patient or more.
- iv. ✓ Horizontal movement speed upto 100 mm/sec or better.

6. ✓ **CONSOLE COMPUTER:**

- i. System architecture and operating system must be based on latest technology (64-bit RISC or Dual intel Xeon Processor PC original).
- ii. Multitasking and parallel processing CPU system.
- iii. Capable of storing at least 3000 raw data files / rotations or 700 GB raw data / 450000 to 600000 images in 512 x 512 format
- iv. Image area display matrix dimensions (1024 x 1024).
- v. Vendors should offer the highest reconstruction speed or zero-click, full automatic.
- vi. Console color monitor LCD of at least 19 inches or more, medical grade with maximum viewing angle **(Qty:02 Nos.)**
- vii. Key board and mouse
- viii. DVD & CD writer / USB HUB

7. ✓ **CONSOLE SOFTWARE:**

- i. All the latest whole body should be supplied as standard which is available at the time of shipment, original with their part number of company.
- ii. Latest user interface software
- iii. Adaptive signal boost software to minimize streak artifact reduction and obese patients
- iv. User interface software, True isotropic volume acquisition
- v. Prospective and retrospective ECG gated acquisition
- vi. Variable Delay algorithm like fixed percent delay (FPD) and fixed offset delay (FOD) or Better, for selection of period of least motion in cardiac cycle (Temporal resolution of 44 Millisecond or less will be preferred.)
- vii. Automated contrast media bolus tracking software.
- viii. 3D Reconstruction display original company software.
- ix. Maximum and minimum intensity projections
- x. Multi-planar and curved planar reconstruction
- xi. 3D shaded surface display
- xii. 3D volume rendering software
- xiii. 3D virtual endoscopy, colonoscopy, bronchoscopy etc with lumen / filler view/ electronic cleaning / auto segmentation of the colon on workstation / both)
- xiv. 3D cone beam correction
- xv. Post- processing software for rib-labeling or equivalent to analyze associated rib pathology
- xvi. CT continuous fluoroscopy with frame rate of 24 fps with all required hardware & software.
- xvii. Dedicated Pediatric protocol (pediatric scanning packages) to reduce dose for the pediatric patients
- xviii. Brain perfusion analysis software.
- xix. System must be with dual energy scanning on acquisition with auto KV switching in single acquisition
- xx. All basic biopsy packages shall be included in the offered system.
- xxi. Subtraction Iodine Mapping: To detect local perfusion differences (whole body including Liver, Pancreas, Kidneys, Abdomen, Brain and Orthopedic). Moreover, iodine mapping with color maps overlay over CT imaging for lesion detection.
- xxii. Artificial Intelligence with deep learning reconstruction software for generating ultra-high-resolution images at lowest dosage. The life time subscription in standard for all DL based algorithm be provided by each participating firm. In case of any annual charges (DL subscription), then it should be specified separately.

8. ✓ **CT Angiography:**

- i. Basic comprehensive brain perfusion analysis (on console or workstation or both)
- ii. Image reconstruction automatic real time dose adjustment according to the body attenuation i.e. core 4D dose / longitudinal dock workstation / 40 boost / sure exposure 3D/ organ specific dose modulation or similar
- iii. Metal artifact reduction algorithm.
- iv. Automatic control of tube current over high and low attenuation areas patient dose reduction software for low dose to patient original / certified.
- v. Iterative dose reduction with manufacturer specific latest software and dedicated hardware.
- vi. Bone removal software.
- vii. Spine labeling software should be included
- viii. Dental CT
- ix. DSA on workstation with manufacturer's dedicated software


9. ✓ **Server with client PCs (06 Nos.) (Thin client server solution)**

- i. Thin client server shall be independent, automatic multimodality, fully functional to support 06 x concurrent user.
- ii. All firms will supply the server by the same manufacturer of the CT to ensure similar work flow.
- iii. Server should have high speed link to operator console on DICOM network System architecture and operating system with:
  - a. Octa-core processor Xeon or better
  - b. 2.66 GHz or more speed
  - c. 8 MB cache or more
  - d. Graphic card (NVIDIA Quadro or equivalent)
- iv. Original Licensed software: window 10 or latest, Linux or latest, MS Office latest, Norton equivalent antivirus (current and upgradeable for at least for the time of warranty).
- v. Should have higher resolution (minimum 2MP) LCD monitor (medical grade) of 19 inch or more (02 x per each client PC= total 12 Nos.):
  - a. 06 x LCD monitors of BARCO / EZIO: 19 inch or more (Medical grade)
  - b. 06 x LCD monitors: 19 inch or more (Standard, high resolution)
- vi. DVDRW (super-drive will be preferred).
- vii. DICOM-3VIEWER WITH UNIVERSAL PC DISPLAY CAPABILITY (LICENSED)

10. **SERVER / WORKSTATION SOFTWARE:**

- i. Original and permanently licensed software with certificate from the manufacturer of (CT).
- ii. Software up-dation of all existing applications for at least next 05 x years will be provided free of cost.
- iii. Following software will be provided at the workstation of the same origin as are being used in USA/Europe & Japan
  - a. Latest Cardiovascular and whole-body software versions will be provided by the vendors including reporting packages and following:
    - a) Advanced complete cardiac package including functional analysis with automatic bone removal software.
    - b) Cardiac segmentation with complete cage removal.
    - c) Orthogonal cross reference view \ Globe view (2D and 3D maps overly on cardiac anatomy)
    - d) Angiography Emulation view \ IVUS view for vessel lumen inspection.
    - e) Complete coronary tree extraction and analysis.
    - f) Ventricular function assessment (ESV, EDV, CO, EF)
    - g) LV Function assessment
    - h) CT Angiography with dedicated cardiac CT Angiography.
    - i) Bone removal and vessel segmentation.

- j) ✓ Tools for general vascular analysis capable to calculate intra-luminal diameter, cross-sectional lumen area, length and tortuosity of vessel's segments, angle the vessels \ rotatable curved MPR
- k) Ability to outline and calculate aneurysm, identify mural calcification and lining mural thrombus
- l) Calculations of dimensions of an aneurysm, the neck of the aneurysm, relationship to surrounding vascular structure, and total distance in order to non-invasively plan stent placement.
- iv. Calcium scoring with ECG gating and prospective & retrospective reconstruction with mass, agatston volume and score.
- v. Following software should also be provided for on workstations.
  - a. 3D reconstruction display
  - b. Maximum and minimum intensity projections
  - c. Multi-planar and curved planer reconstruction
  - d. 3D shaded surface display
  - e. 3D volume Rendering software
  - f. 3D virtual Endoscopy, colonoscopy, bronchoscopy
  - g. Advanced coronary vessel analysis
- vi. Dedicated software for Liver Imaging
- vii. Automated Brain Perfusion.
  - a. Providing functional information over the functionally significant are of the brain for stroke evaluation.
  - b. Allows differentiating areas of increased blood volume and decreased blood flow and ability to distinguish still viable and non-viable infarcted tissue
  - c. Quantitative colour maps of cerebral blood flow (CBF), cerebral blood volume (CBV), mean transit time (MTT) and time to peak (TTP) allowing to decide between areas for the brain that may benefit from reperfusion.
  - d. ✓ Automated mirrorline / centerline and selection of arterial and venous regions of interest.
  - e. Allowing perfusion of other body organs liver and kidney etc.
- viii. Advanced peripheral / general vessel analysis.
- ix. Subtraction Iodine Mapping: To detect local perfusion differences (whole body including Liver, Pancreas, Kidneys, Abdomen, Brain and Orthopedic). Moreover, iodine mapping with color maps overlay over CT imaging for lesion detection.
- 11. ✓ **CT LUNG DENSITY ASSESSMENT:**
  - i. Track and quantify diffuse lung disease including congenital lobar emphysema, destructive lung disease, pulmonary hypoplasia / agenesis, CCAM and laryngomalacia etc.
  - ii. ✓ Nodule analysis program
  - iii. Automated / single click segmentation of right and left lung with display of volume rendered and MPR view to reconstruction for accurate quantification and reporting with picture print.
  - iv. Allows pre surgical planning through lungs field areas and lungs field areas and lungs field volumes.
  - x. **Note:** The Firm will provide free of cost upgradeability of hardware & software during warranty period (**All licenses should be lifetime**)
- 12. **DICOM 3 CAPABILITY:**
  - i. DICOM3 ready (multi vendor and multimodality compatible for send, receive, archive, retrieve and print, on main console and workstations/ server/ client PCs) and POF Hospital internal PACs network.
- 13. **UPGRADE-ABILITY:**
  - i. All vendors will quote their latest and best system. The manufacturer should undertake that this latest version is being used in USA/EU & Japan.

15. ✓ **POWER REQUIREMENT:**  
i. 400 V  $\pm$  2.5 %, 50/60 Hz AC.  
ii. 230 V  $\pm$  2.5 %, 50/60 Hz AC.
16. ✓ **COUNTRY OF ORIGIN:**  
i. The country of manufactured and origin both must be Europe, Japan and USA only.
17. ✓ **ACCESSORIES:**  
i. Programmable, dual head power injector with flow / volume and temperature control (Qty:02), mounted on mobile base, with 100 syringes of 150 ml capacity and connecting tubes  
ii. DICOM3 ready dry laser printer, size upto 14x17 in for printing on films. (Qty: 01 No)  
iii. Film Viewer for images upto 14x17 inch with 04x1 format. (Qty: 04 Nos.)  
iv. Compatible UPS (online) for whole CT suite along with reporting rooms, with a minimum back-up time of 30 minute on full load. (Qty: 01 No)
18. ✓ **PROTECTION DEVICES:**  
v. Lead aprons with hangers (Qty: 03)  
vi. Lead-gloves (Qty: 03)  
vii. Lead goggles (Qty: 03)  
viii. Thyroid Shields all 0.5mm lead equivalent European & Japanese.  
ix. Lead glass (0.5mm Pb equivalent) for control room  
a. Standard set of Phantoms for calibration of CT & tube  
b. Dedicated Cardiac Monitor for synchronize with cardiac scan. (Qty: 01)  
c. Pulse oxymeter (Qty: 01)
19. ✓ **TABLE ACCESSORIES:**  
i. ✓ Table pads, arms rest, patient restraint kit, infant cradle, flat head holder, (all Original accessories from the manufacturer)  
ii. Digital Transcription system for reporting
20. ✓ **CIVIL WORKS:**  
i. Civil Engineering drawing / layout plan of the proposed CT suite for installation is enclosed with tender document as "**Annex-A**". All internal furnishing (including furniture, ACs (03 x Nos.), flooring, Lead lining of the room / hall for protection against the radiation) shall be the responsibility of firm / supplier on **FOC Basis**.  
ii. Provision of storage aluminum racks, aluminum doors with elbow action controls, paneling, lead lining, flooring, paints etc (Complete job for CT suite)  
iii. Complete furnishing / renovation including partitioning for cabins, furniture, 03x inverter ACs (1.5 ton each), Refrigerator, dispenser, microwave oven (for doctor / PGs duty room), blinds etc of newly constructed reporting rooms building will also be the responsibility of quoted firm on **FOC Basis**. (the layout drawing of newly constructed double storey reporting room site shall be made available, if required by any vendor.  
iv. The firm will also provide power supply connection along with networking arrangement for PACs connectivity from CT-UPS to client workstations of reporting room (for uninterrupted supply)  
v. Complete electricity works from power station to CT room including earthing, power racks, breakers, DB etc  
vi. Firm will provide complete B.O.Q, against each item mentioned in civil scope of work.
- 21.(a) **PRE-SHIPMENT INSPECTION (PSI)**  
i. The PSI team comprising of 02 officials will perform pre-shipment inspection of the machine at supplier premises for a period of 03 ~ 04 days (excluding journey period). All expenses i.e. Air Tickets, Boarding & Lodging will borne by buyer / purchaser.  
ii. Inland traveling will be borne by the supplier.
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- iii. The M/c will be dispatched only after the supplier receives the pre-delivery acceptance certificate issued by the purchaser certifying that the machine has qualified the satisfactory working performance trial by PSI Team.

**21.(b) ✓ FOREIGN TRAINING:**

- i. Foreign training for 07 x officials of POF Hospital for 02 x weeks at OEM Premises. All expenses i.e. Air Tickets, Boarding & Lodging will borne by buyer / purchaser.
- ii. Inland traveling will be borne by the supplier.

**iii. ✓ Local Training:**

Onsite local (O&M) training comprising of clinical and technical maintenance & troubleshooting training will be arranged by the firm on FOC Basis for 02 x weeks after successful installation / commissioning of the machine.

**22. ✓ FINAL ACCEPTANCE TEST (FAT)**

- i. After successful installation / commissioning of the complete machine & sub-system equipment at POF Hospital, firm will execute full performance tests of the machine for min 07 x days. During FAT all parameters including quality of performance, protocols, software, scans, hardware will be observed, recorded and ensured as per required tender specifications.
- ii. Afterwards, FAT certificate will be signed by End User, Electromedical deptt and Commandant POF Hospital.

**23. ✓ PAYMENT TERMS:**

- i. 70% payment will be released on receipt of store at site along with receipt of shipping documents & PSI report.
- ii. 30 % payment will be released after successful installation / commissioning and FAT certificate.

**24. SPECIAL TERM & CONDITIONS:**

- i. **The warranty/guarantee** with parts, period should be **05 years** from the date of commissioning of the machine. It should include cost of service and spares including replacement of UPS batteries during the period <sup>of</sup> warranty. During this period the system should have 95% uptime, calculated on the basis of 365 days in a year.
- ii. Down time would be defined as failure of equipment operation to acquire or process images, resulting in the inability to carry out the required procedure / test.
- iii. If the uptime percentage fall short of 95%- 85%, then downtime with no penalty (Warranty / Guarantee period will be extended by number of days calculated as downtime). Below - 85% the warranty period will be extended by 2.0 times the number of days as extra down time.
- iv. Firm is bound to provide the cost of the annual service contract after the expiry of the initial warranty period as optional alongwith the initial bid. It should include cost of service and parts (separately) including one tube head during the period of service contract. The cost of X-ray tube head shall be fixed and remain valid after Warranty / Guarantee period of 05 x years.
- v. Original manufacturer CDs/ USB for all software & licenses will be supplied with the machine.
- vi. Copy of valid authorization & direct and sole distribution certificate of local distributor in Pakistan from OEM / principal must be attached with technical bid. (sole & single distributor is acceptable only)
- vii. POF Hospital reserves all right to reject / ignore the bid of local firm which has poor backup services & technical support or unsatisfactory performance (excessive downtime) in the past.
- viii. A comprehensive list of above said units installed in reputable hospitals along with after sale service infrastructure shall be provided. Preference will be given to those vendors having performance certificate / feedback from hospitals.

- ix. Original manufacturer's service & operational manual (in English in duplicate) of quoted model be provided by the firm, in hard print copies (Soft form in USB can also be provided additionally).
- x. Firm to guarantee the supply of spare parts up to 10 years on payment basis as and when required basis.
- xi. The firm will be responsible to replace accessories / or faulty part (if any) within warranty period on FOC basis.
- xii. Standardization: Valid approved FDA,CE/MHLW/JIS & ISO certifications of the quoted model must be attached with technical bid.



SPECIAL CONDITIONS

1. STANDARD ACCESSORIES THE COST OF WHICH IS COVERED IN BASIC UNIT SHOULD BE CLEARLY INDICATED AND LISTED AS A PART OF BASIC EQUIPMENT. ALSO, PROVIDE DETAIL SPARE LIST OF MACHINE.
2. OPTIONAL ACCESSORIES, IF AT ADDITIONAL COST, SHOULD BE SHOWN SEPARATELY.
3. THE LIST AND PRICE OF RECOMMENDED SPARE PARTS REQUIRED FOR THREE YEARS TROUBLE FREE OPERATION SHOULD BE QUOTED.
4. EQUIPMENT WILL BE INSTALLED AND COMMISSIONED AT POF HOSPITAL WAH CANTT FREE OF CHARGE.
5. THE FIRM WILL PROVIDE **05 YEARS** WARRAANTY/GUARANTEE OF THE ENTIRE SYSTEM FROM THE DATE OF SUCCESSFUL COMMISSIONING. DURING THIS PERIOD REPLACEMENT OF ANY COMPONENT/PART IF NECESSARY WILL BE MADE BY THE FIRM FREE OF CHARGE IN ADDITION TO FREE SERVICE. THE SUPPLIER SHOULD ALSO CONFIRM THAT THEY HAVE PROPER SERVICES AND CONFIRM THAT THEY HAVE LOCCAL REP. ADDRESS, TELEPHONE/FAX NUMBER AND THE CONTACT PERSONS SHOULD BE CLEARLY STATED IN THE QUOTATION AND UNDERTAKING DULY SIGNED BY YOUR LOCAL REP. FOR MAINTAINING AND PROVIDING AFTER SALES SERVICES TO THE EQUIPMENT ON YOUR BEHALF DURING AND AFTER WARRAANTY/GUARANTEE PERIOD MUST BE ENCLOSED.
6. THE FIRM WILL ENCLOSE AN UNDERTAKING/ CONFIRMATION TO GUARANTEE FOR SUPPLY OF SPARE PARTS FOR NEXT 10 YEARS AS AND WHEN REQUIRED.
7. CONSUMABLE BEING OFFERED FREE OF CHARGE WILL BE IDENTIFIED SEPARATELY.
8. THE FIRM SHOULD MENTION PRODUCT YEAR OF MAUNFACTURING AND REFERENCES WHERE THE QUOTED MODEL IS AVAILABLE/ INSTALLED IN PAKISTAN.
9. THE SUCCESSFUL BIDDER WILL PROVIDE PERFORMANCE BOND (BANK GUARANTEE) AT THE RATE OF 10% OF FOB VALUE.
10. OEMS HAVING AFTER SALE/BACK-UP SERVICES IN PAKISTAN WILL BE ELIGIBLE TO PARTICIPATE.
11. THE STORE MUST BE PROTECTED ADEQUATELY AND APPROPRIATELY TO THE MODE OF DISPATCH AGAINST DAMAGE FROM ENVIRONMENTAL EFFECTS, WATER OR OTHER SUBSTANCES DURING THE SEA VOYAGE AND OVERLAND JOURNEY TO WITHSTAND THE ROUGH HANDLING INVOLVED IN TRANSIT AND PROVE PROPER PRESERVATION OF MATERIALS WHILE HELD IN STORAGE BY THE CONSIGNEE.
12. Firm should not quote the rates, if their Govt. does not permit them for export of the material to Pakistan

WARRANTY/ GUARANTEE CERTIFICATE

Firm's Name \_\_\_\_\_

Contract No. \_\_\_\_\_

1. We hereby guaranty that the goods supplied against the above contract are in all respect in accordance with the relevant specifications and terms of the contract and that the material used, whether or not of our manufacture, are in accordance with the latest approved standard specifications complete, are of good workshop/quality throughout, and that we shall replace free of cost, every article or part thereof which before use or in use, shall be found defective, or not within the limits and tolerance of specification requirements, or in any way not in accordance with the terms of the contract.
2. In case of our failure to replace the defective stores free of cost within the period specified by the purchaser, we will refund the relevant cost.
3. The Warranty/ Guaranty will remain valid for **05 years** after the receipt of stores by the consignee/installation of the equipment.

Signature \_\_\_\_\_

Name \_\_\_\_\_

Status in firm \_\_\_\_\_

Date \_\_\_\_\_

Company Stamp \_\_\_\_\_



FORMAT OF BANK GUARANTEE FOR PERFORMANCE ON  
JUDICIAL STAMP PAPER OF RS.100/- OR AS  
SUITABLE TO THE AMOUNT OF B.G.

- i) Contract No. \_\_\_\_\_ Date. \_\_\_\_\_
- ii) Name of Firm/Contractor \_\_\_\_\_
- iii) Address of Firm/Contractor \_\_\_\_\_
- iv) Name of Guarantor \_\_\_\_\_
- v) Address of Guarantor \_\_\_\_\_
- vi) Amount of Guarantee Rs. \_\_\_\_\_  
( \_\_\_\_\_ )

(in words )

vii) Date of Expiry of Guarantee \_\_\_\_\_

To: The President of the Islamic Republic of Pakistan through the  
Controller of Military Accounts (CMA) POFs, Wah Cantt.

Sir,

1. Whereas your goodself have entered into Contract No. \_\_\_\_\_  
dated \_\_\_\_\_ with Messrs \_\_\_\_\_

(Full Name and Address)

hereinafter referred to as our customer and that one of the conditions  
of the contract is the submission of unconditional Bank Guarantee by  
our customer to your goodself for a sum of Rs. \_\_\_\_\_  
Rupees/FE (as applicable ) \_\_\_\_\_

2. In compliance with this stipulation of the contract, we hereby agree  
and undertake as under:-

a. To pay to you unconditionally on demand and/or without any  
reference to our Customer and amount not exceeding the sum  
of Rs. \_\_\_\_\_ Rupees or FE (as applicable  
) \_\_\_\_\_ as would be  
mentioned in your written Demand Notice.

b. To keep this Guarantee in force till  
\_\_\_\_\_

c. That the validity of this Bank Guarantee shall be kept **FIVE**  
clear year ahead of the original/extended delivery period or  
the warrantee of the stores which so ever is later in  
duration on receipt of information from our Customer i.e.  
M/S \_\_\_\_\_ or from your office.  
Claim, if any, must be duly received by us on or before this  
day. Our liability under this Bank Guarantee shall cease on  
the closing of banking hours on the last date of the  
validity of this Bank Guarantee. Claim received thereafter  
shall not be entertained by us whether you suffer a loss or  
not. On receipt of payment under this guarantee, this

document i.e. Bank Guarantee must be clearly cancelled, discharged and returned to us.

- d. That we shall inform your office regarding termination of the validity of this Bank Guarantee one clear month before the actual expiry date of this Guarantee.
- e. That with the consent of our customer you may amend/alter any term/clause of the contract or add/delete any term/clause to/from this contract without making any reference to us. We do not reserve any right to receive any such amendment/alteration or addition/deletion provided such like actions do not increase our monetary liability under this Bank Guarantee which shall be limited only to or FE (as applicable)Rs. \_\_\_\_\_  
(Rupees \_\_\_\_\_).
- f. That the Bank Guarantee herein before given shall not be affected by any change in the constitution of the Bank or Customer/Seller or Vendor.
- g. That this is an unconditional Bank Guarantee, which shall be encashed on sight on presentation without any reference to our Customer/Seller or Vendor.

Guarantor

Dated: \_\_\_\_\_

\_\_\_\_\_  
(Bank Seal and Signatures)

POF HOSPITAL WAH CANTT  
PROPOSED CT SCANNER LAYOUT PLAN

