

TENDER DOCUMENT FOR



*SUPPLY OF MEDICAL EQUIPMENT
PORTABLE DIGITAL 300 MA X-RAY MACHINE*

NATIONAL CENTRE FOR ANTARCTIC & OCEAN RESEARCH

(Ministry of Earth Sciences, Govt. Of India)

Headland Sada, Vasco-da-Gama

GOA -403 804, INDIA.

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NATIONAL CENTRE FOR ANTARCTIC & OCEAN RESEARCH
(Ministry of Earth Sciences, Govt. Of India),
HEADLAND SADA, VASCO-DA-GAMA,
GOA - 403 804

TENDER NO. NCAOR/AES-11192/PT-38
TENDER FOR MEDICAL EQUIPMENT (PORTABLE DIGITAL 300 MA X-RAY MACHINE)

1.	SUPPLY OF PORTABLE DIGITAL 300 MA X-RAY MACHINE Quantity-Specification-	1 Pc As per Annexure I
2.	General Terms and Conditions	As per Annexure II
3.	Cost of Tender Documents (In Person)	₹ 500.00
4.	Cost of Tender Documents (By Post)	₹ 550.00
5.	Tender Documents	Tender documents can be downloaded by tenderers from NCAOR website. In case a tenderer is using the documents and forms downloaded from the website, the cost of tender documents shall be sent in the form of Bank Draft in a separate envelope along with the tender.
	EMD	Bidders shall submit EMD along with their tender, either By DD drawn in favour of NCAOR, for a sum of ₹ 15,000/- (Rupees Fifteen Thousand only) or in the form of a bank guarantee for a sum of ₹ 15,000/- (Rupees Fifteen Thousand only)
6.	Last Date and time for issue of tender documents	MONDAY 10.11.2014 1600Hrs (IST)
7.	Last Date and time for submission of sealed quotations	TUESDAY 11.11.2014 1700Hrs (IST)
8.	Date and time of tender opening	WEDNESDAY 12.11.2014 1000Hrs (IST)

Technical Specification for Mobile/Portable X-Ray Unit

Compact, easily transportable, digital mobile radiographic unit with articulated/telescopic arm, suitable for bedside X-Ray for ward patients, intensive care units and operation theatres. The unit should be a digital system with flat panel detector and must include the following.

1. Power line connection : The unit should operate in single- phase power supply and should have overload protection. Plug in facility to any standard wall outlet with automatic adaptation to line voltage 200 to 240 Volts 1.5 Amp plug.
2. Ergonomics: The unit should have small foot print. The height of the column stand should not be more than 150cm for easy transportation in the lift etc. And areas with small height doors. The Equipment should be light weight, not more than 160 kg. It must have an articulated or telescopic arm for maximum positioning flexibility in any patient position. The cables should be concealed in the arm system. The exposure release switch should be detachable with a cord of at least 5 meters. Extractable measurable tape should be available.
3. The Generator:
 - 3.1 Must be microprocessor controlled high frequency.
 - 3.2 Output 30 KW or more at Nominal power Rating.
 - 3.3 Display it should have a digital display of mAs and KV and an electronic timer.
 - 3.4 KV range: 40 KV to 125 KV or more
 - 3.5 Max. Current : 400 mA or more
 - 3.6 mAs it should be capable of delivering up to 300 mAs in different steps
 - 3.7 Shortest exposure time: Should be 1 ms or less.
4. X-ray Tube:
 - 4.1 Output should match the output of the generator
 - 4.2 It must have a rotating anode with at least 3000rpm or more.
 - 4.3 It should have dual focus. Large Focus: 1.3 mm and small Focus 0.6 mm or better
 - 4.4 Anode heat storage capacity should be more than 100KHU.
 - 4.5 Multi-leaf collimation rotatable +/-90 degrees with off/on timer should be supplied with the system.
5. Flat panel detector
 - 5.1 The flat panel detector should be of the size 14 x17 inch or more.
 - 5.2 Detector should have DQE of 65% at 0 lp/s or more.
 - 5.3 The Detector pixel matrix should be 2k x 2k or more.
 - 5.4 Pixel size/pitch should be 160µm or less.
 - 5.5 The machine should have a detector storage compartment.
 - 5.6 The image viewing time after exposure should not be more than 5 sec.
 - 5.7 Weight of the detector should not be > 5 kg.
 - 5.8 The Detector should be designed and calibrated for General Radiography Purposes and must be fully integrated with the mobile unit including the controls.
 - 5.9 The Detector should have a long chord to easily reach the patient for bedside x-rays
6. Battery
 - 6.1 The machine should be able to run on mains as well as on battery supply.
 - 6.2 Please specify number of exposures which can be done on battery
 - 6.3 The battery should also provide power for the motor to move the machine.
 - 6.4 The battery should be able to be charged from a normal 15A, 220-240V single phase socket in less than 6 hours

7. Inbuilt Console: The machine should have an integrated/inbuilt console with a TFT touch screen
 - 7.1 The console should enable to view the image, and provide post processing features, using touch screen.
 - 7.2 The post processing features should include zoom, contrast and brightness, adjustment, panning annotate, mark and reporting.
 - 7.3 Storage of image with a memory of at least 3000 images.
 - 7.4 The touch screen size should be 15 inches or more.
8. Connectivity: The machine should be fully network ready and it should be possible to transfer images and patient data from and to hospital network using LAN connectivity or wireless LAN.
9. Accessories: grid of 10:1 ratio of appropriate size preferably 17”x 17”should be supplied.
10. Breaking System: The Unit should have effective breaking system for parking.
11. Warranty: 5 Years comprehensive warrantee for complete system including X-ray tubes.
12. CMC Charges: The bidders should quote year-wise CMC charges for five years after completion of warrantee uptime warrantee should be 98%
13. Certification: System shall have valid AERB certificate of the quoted model. The bidder to provide any other certificate required for importing the equipment in case of imported modes.
14. Installations and Training: The bidder should have installed same model successfully in India. The copy of the satisfactory performance certificate of same model to be enclosed along-with the bid.
15. Service Center: Company should have an established registered service center in Delhi. The bidder should provide the address and phone numbers.
16. Product Data Sheet: All specification to be provided with original product data sheet. All technical specification should be supported with original data sheet highlighting the page number in the compliance sheet. Photocopy/ computer print will not be acceptable.
17. Spare Availability: The principal should give undertaking regarding the spares availability for next 10 years.

TECHNICAL COMPLIANCE STATEMENT FOR SUPPLY OF PORTABLE DIGITAL 300 MA X-RAY MACHINE

Technical Specification for Mobile/portable X-Ray Unit

SPECIFICATIONS FOR SUPPLY OF PORTABLE DIGITAL 300 MA X-RAY MACHINE	COMPLIED/ NOT COMPLIED	EXTRA FEATURES
Compact, easily transportable, digital mobile radiographic unit with articulated/telescopic arm, suitable for bedside X-Ray for ward patients, intensive care units and operation theatres. The unit should be a digital system with flat panel detector and must include the following.		
1. Power line connection : The unit should operate in single- phase power supply and should have overload protection. Plug in facility to any standard will outlet with automatic adaptation to line voltage 200 to 240 Volts 1.5 Amp plug.		
2. Ergonomics: The unit should have small foot print. The height of the column stand should not be more than 150cm for easy transportation in the lift etc. And areas with small height doors. The Equipment should be light weight, not more than 160 kg. It must have an articulated or telescopic arm for maximum positioning flexibility in any patient position. The cables should be concealed in the arm system. The exposure release switch should be detachable with a cord of at least 5 meters. Extractable measurable tape should be available.		
3. The Generator: 3.1 Must be microprocessor controlled high frequency. 3.2 Output 30 KW or more at Nominal power Rating. 3.3 Display it should have a digital display of mAs and KV and an electronic timer. 3.4 KV range: 40 KV to 125 KV or more 3.5 Max. Current : 400 mA or more 3.6 mAs it should be capable of delivering up to 300 mAs in different steps 3.7 Shortest exposure time: Should be 1 ms or less.		
4. X-ray Tube: 4.1 Output should match the output of the generator 4.2 It must have a rotating anode with at least 3000rpm or more. 4.3 It should have dual focus. Large Focus: 1.3 mm and small Focus 0.6 mm or better 4.4 Anode heat storage capacity should be more than 100KHU. 4.5 Multi-leaf collimation rotatable+/-90 degrees with off/on timer should be supplied with the system.		
5. X-ray Tube: 5.1 Output should match the output of the generator 5.2 It must have a rotating anode with at least 3000rpm or more. 5.3 It should have dual focus. Large Focus: 1.3 mm and small Focus 0.6 mm or better 5.4 Anode heat storage capacity should be more than 100KHU. 5.5 Multi-leaf collimation rotatable+/-90 degrees with off/on timer should be supplied with the system.		

<p>6. X-ray Tube:</p> <p>6.1 Output should match the output of the generator</p> <p>6.2 It must have a rotating anode with at least 3000rpm or more.</p> <p>6.3 It should have dual focus. Large Focus: 1.3 mm and small Focus 0.6 mm or better</p> <p>6.4 Anode heat storage capacity should be more than 100KHU.</p> <p>6.5 Multi-leaf collimation rotatable +/-90 degrees with off/on timer should be supplied with the system.</p>		
<p>7. Flat panel detector</p> <p>7.1 The flat panel detector should be of the size 14 x17 inch or more.</p> <p>7.2 Detector should have DQE of 65% at 0 lp/s or more.</p> <p>7.3 The Detector pixel matrix should be 2k x 2k or more.</p> <p>7.4 Pixel size/pitch should be 160µm or less.</p> <p>7.5 The machine should have a detector storage compartment.</p> <p>7.6 The image viewing time after exposure should not be more than 5 sec.</p> <p>7.7 Weight of the detector should not be > 5 kg.</p> <p>7.8 The Detector should be designed and calibrated for General Radiography Purposes and must be fully integrated with the mobile unit including the controls.</p> <p>7.9 The Detector should have a long chord to easily reach the patient for bedside x-rays</p>		
<p>8. Battery</p> <p>8.1 The machine should be able to run on mains as well as on battery supply.</p> <p>8.2 Please specify number of exposures which can be done on battery</p> <p>8.3 The battery should also provide power for the motor to move the machine.</p> <p>8.4 The battery should be able to be charged from a normal 15A, 220-240V single phase socket in less than 6 hours</p>		
<p>9. Inbuilt Console: The machine should have an integrated/inbuilt console with a TFT touch screen</p> <p>9.1 The console should enable to view the image, and provide post processing features, using touch screen.</p> <p>9.2 The post processing features should include zoom, contrast and brightness, adjustment, panning annotate, mark and reporting.</p> <p>9.3 Storage of image with a memory of at least 3000 images.</p> <p>9.4 The touch screen size should be 15 inches or more.</p>		
<p>10. Connectivity: The machine should be fully network ready and it should be possible to transfer images and patient data from and to hospital network using LAN connectivity or wireless LAN.</p>		
<p>11. Accessories: grid of 10:1 ratio of appropriate size preferably 17"x 17" should be supplied</p>		
<p>12. Breaking System: The Unit should have effective breaking system for parking</p>		
<p>13. Warranty: 5 Years comprehensive warrantee for complete system including X-ray tubes</p>		
<p>14. CMC Charges: The bidders should quote year-wise CMC charges for five years after completion of warrantee uptime warrantee should be 98%</p>		

15. Certification: System shall have valid AERB certificate of the quoted model. The bidder to provide any other certificate required for importing the equipment in case of imported modes		
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19. Spare Availability: The principal should give undertaking regarding the spares availability for next 10 years.		

TERMS AND CONDITIONS FOR SUBMISSION OF QUOTATION

- 1) The National Centre for Antarctic and Ocean Research (NCAOR) **invites sealed quotations** from the reputed firms for the “**SUPPLY OF PORTABLE DIGITAL 300 MA X-RAY MACHINE**” at NCAOR, GOA as per the specifications given in Annexure “I”
- 2) The bids should be submitted in sealed covers, super scribing tender **for SUPPLY OF PORTABLE DIGITAL 300 MA X-RAY MACHINE**”, sealed and addressed to the Director, National Centre for Antarctic & Ocean Research, Headland Sada, Vasco-da-Gama, Goa – 403 804. **Offer sent through fax will not be accepted.**
- 3) Overwriting and corrections should be attested properly. The bid should be complete in all respects and should be duly signed. **Incomplete and unsigned bids will not be considered at all.**
- 4) All relevant technical literature pertain to items quoted **with full specifications** (Drawing, if any), information about the products quoted, including brochures if any should accompany the quotation.
- 5) A list of **reputed clients** to whom the firm has supplied similar items to be furnished along-with the quotation.
- 6) Quotation should be **valid for a period of 90 days** from the date of tender opening and the period of delivery required should also be clearly indicated. If the supplier fails to deliver the goods within the time to be agreed upon, for delayed deliveries and for delays in installation (wherever applicable) NCAOR reserves the right to **levy liquidated damages** at the rate of 0.5% per week or part thereof up to maximum of 5%.
- 7) Technical Bid should contain EMD.**
Bidders shall submit **EMD** along with their tender, **either By DD** drawn in favour of NCAOR, for a sum of ₹ 15,000/- (Rupees Fifteen Thousand only) **or in the form of a bank guarantee** for a sum of ₹ 15,000/- (Rupees Fifteen Thousand only) from any reputed bank (scheduled bank) initially valid for 180 days from the date of closing of the tender as per the proforma enclosed.
- Tender without EMD in the envelope shall be summarily rejected.** The EMD of unsuccessful bidders shall be returned within 15 days of the award of contract. The earnest money will be liable to be forfeited, if the tenderer withdraws or amends impairs or derogates from the tender in any respect within the period of validity of his tender.
- 8) Please **specify the Make/Brand** and Name of the Manufacturer with address, country of origin and currency in which rates are quoted.
- 9) **Compliance Statement:** Equipments point-by-point comparison/compliance statement with **technical specification** indicated in the tender, should be enclosed along with your tender as well as any other extra features of the equipment be shown separately therein and also **compliance statement for all commercial terms** of the tender document.
- 10) **The order acknowledgement** should be from the principals and if the Indian Agent is empowered to quote and to furnish order acknowledgement, a copy of agreement entered by you with the Indian Agent to be furnished.
- 11) NCAOR is not entitled to issue form “**C/D**”. No sales Tax or any other Tax shall be payable by us unless payment of the same is specifically mentioned by the suppliers in their bids and same is legally leviable.
- 11) To avail duty concessions i.e. **Excise Duty** as per Govt. notification 10/97 & **Custom Duty** as per Govt. notification 51/96, NCAOR will provide exemption certificates. Hence, the rates should be split into basic cost and Excise Duty if any.
- 12) A Committee constituted by the Director, NCAOR for the purpose reserves the right to open the

bids.

13) A technical Committee constituted by the Director will assess the product supplied/installed for their quality and their conformity to the specifications provided by the firm in their quotations. Any item(s) identified by the Committee to be not as per the specifications or are found to be of inferior quality will be rejected, and the bills towards the supply will not be processed for payment till proper replacements are provided.

15) All medical equipment should be in good working conditions and shall be packed properly.

16) The rate quoted against each should be *units stated*. Where quotations are in terms of units other than that specified, relationship between the two sets of units must be furnished.

17) Quotation should be submitted on FOR, Goa.

18) The supplier will be responsible for and should cover, Insurance for all transit risk.

19) No advance payment will be made. Payment shall be made within 30 days from the date of receipt, acceptance and satisfactory installation of equipment. The payment will be authorized after submission of a Bank Guarantee for 10% value of the order towards warranty guarantee. The **performance Bank Guarantee** should be furnished within 15 days from the date of placement of order from a reputed bank (scheduled bank in India) valid till 60 days after the warranty period.

20) Acceptance of this tender form and submission of the quote within the stipulated time would be treated as:

a) The tenderer has understood all requirements as described in our Tender document.

b) Acceptance to provide/establish all the facilities mentioned in our tender without any price escalation, if the tenderer finds it necessary to add any hardware or software or any other materials during implementation.

c) Agreeing to execute order to the satisfaction of NCAOR or its authorized representatives within the stipulated time.

21) NCAOR will not be liable for any obligation until such time NCAOR has communicated to the successful bidder of its decision to release the Purchase Order.

22) NCAOR will not be responsible for any postal delays.

23) Bidders shall note that NCAOR will not entertain any correspondence or queries on the status of the offers received against this Tender Invitation.

24) Tenders from Manufacturers/Suppliers/Tenderers whose performance was not satisfactory in respect of quality of supplies and delivery schedules in any organizations, are liable for rejection. The tenders that do not comply with the above criteria and other terms & conditions are liable for rejection.

25) The Director, NCAOR does not bind to accept the lowest quotation and reserves the right to himself, to reject or partly accept any or all the quotations received without assigning any reason.

QUESTIONNAIRE

- a. **Name of the Manufacturer / Tenderer.**
- b. **Full postal address with Telephone, Telefax, Email.**
- c. **Please specify whether Public Limited, Company, Private Organization or Partnership Firm.**
- d. **Nature of the Business.**
- e. **Date of Establishment.**
- f. **Present Turnover.**
- g. **Permanent Income Tax Ref. No.**
- h. **C.S.T. / S.T. NO.**
- i. **Address & Telephone Nos. Of your branch office in GOA (please specify whether Distributing/Servicing/Marketing the products).**
- j. **Reference of reputed Customers.**
- k. **Details of the highest order executed and value thereof.**
- l. **Tender fee submitted/enclosed.**
- m. **Technical Specifications/Literature/Brochure attached.**
- n. **Tender Acceptance.**

TENDER ACCEPTANCE UNDERTAKING

To

The Director,
NCAOR, Headland Sada,
Vasco – Goa.

Having examined the tender document for **SUPPLY OF PORTABLE DIGITAL 300 MA X-RAY MACHINE**, we the undersigned hereby offer to supply the equipment in conformity with all specifications and conditions set out in the tender document.

We enclosed all the relevant documents as per the tender.

We understand that you are not bound to accept the lowest or any tender received.

Date :

(Signature of Bidder)

Name :

Designation :

Seal

BANK GUARANTEE FORMAT FOR FURNISHING EMD

To

**NATIONAL CENTRE FOR ANTARCTIC & OCEAN RESEARCH
Headland Sada, Vasco-da-Gama, GOA 403 804, INDIA**

Whereas _____
 (Hereinafter called the "tenderer")
 has submitted their offer dated _____
 for the supply of _____
 (Herein after called the "tender")

WE _____ of having our registered office
 At _____ are bound unto the NATIONAL
 (Hereinafter called the Bank)

CENTRE FOR ANTARCTIC & OCEAN RESEARCH, Ministry of Earth Sciences, Govt. Of India having its office at Headland Sada, Vasco Goa 403 804, India (herein after called NCAOR which expression shall unless repugnant to the context or meaning thereof include all its successors, administrators, executors and assigns) in the sum of _____ for which payment will and truly to be made to. NCAOR, the Bank binds itself, its successors and assigns by these presents. Sealed with the common seal of the said Bank this _____ day of _____ 2014.

THE CONDITIONS OF THIS OBLIGATION ARE:

- 1) If the tenderer withdraws or amends, impairs or derogates from the tender in any respect within the period of validity of this tender.
- 2) If the tenderer having been notified of the acceptance of his tender by NCAOR during the period of its validity.
 2. a) If the tenderer fails to furnish the Performance security for the due performance of the contract.
 2. b) Fails or refuses to execute the contract

We undertake to pay NCAOR up to the above amount upon receipt of its first written demand, without NCAOR having to substantiate its demand, provided that in its demand the NCAOR will note that the amount claimed by it is due to it owing to the occurrence of one or both the two conditions, specifying the occurred condition or conditions.

This guarantee is valid until the _____ day of _____ 2014.

Signature of the bank

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 Email: warlu62@ncaor.gov.in Website: www.ncaor.gov.in
PUBLIC TENDER

Director, National Centre for Antarctic & Ocean Research (NCAOR) invites sealed tender super scribing Tender No. Item and due date from well established/ reputed manufacturers / authorized and bonafide vendors for supply of the following:-

Sl. No.	Tender No.	Item Description	Qty.	Cost of Tender Doc	EMD
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