

**GOVERNMENT OF INDIA  
DEPARTMENT OF SPACE  
ISRO PROPULSION COMPLEX (IPRC)  
MAHENDRAGIRI**

**Tender for Supply, Installation and Commissioning of Industrial 160 kV  
X ray machines with accessories**

**Bids to be submitted online**

**Tender No.: IPRC/PURGP2/IP202400106001 dated 24-09-2024**

## A. Tender Details

Tender No : **IPRC/PURGP2/IP202400106001**

Tender Date : **24-09-2024**

Tender Classification: **GOODS**

Purchase Entity : **PURGP2**

Centre : **ISRO PROPULSION COMPLEX (IPRC)**

### **Supply,Installation and Commissioning of Industrial 160 kV X ray machines with accessories**

1] KINDLY READ ALL INSTRUCTIONS BEFORE QUOTING.

2] THIS IS A PUBLIC TWO PART TENDER. PART I: TECHNICAL BID AND PART II- COMERCIAL BID. TECHNICAL BID PART IS FOR ALL TECHNICAL DETAILS . COMMERCIAL BID SHOULD CONTAIN ALL PRICE DETAILS.PRICE RELATED DOCUMENT SHOULD BE UPLOADED IN HEADER . SUPPORTING DOCUMENTS FROM VENDOR (PRICE DETAILS) .IF PRICE RELATED INFORMATION IS MENTIONED ANYWHERE OTHER THAN HEADER. PRICE BID AND SUPPORTING DOCUMENTS FROM VENDOR (PRICE DETAILS), YOUR OFFER IS LIKELY TO GET REJECTED.PRICE BID WILL BE OPENED ONLY AFTER TECHNICAL BID EVALUATION ON A LATER DATE.

3]Foreign vendors are not permitted to quote.

4]Only Class-I and Class-II Local suppliers as per Make in India Policy are eligible to participate in the bid.

e.The percentage of local content should be specifically mentioned in the offer, without which it will be summarily rejected.

f.Preference will be given to Class-I Local Supplier and in their absence, Class- II Local Supplier will be considered.

5]Last minute clarification on tenders will not be entertained.

6]This is an E-Tender. Hence Postal/Fax/Email tenders will not be accepted.

7]Acceptance of Guarantee / Warranty, PBG, SD & LD are specified in your offer .

8] MSME preference is applicable only against the claim of the manufacturer and production of documentary evidence by the manufacturer for the registration of particular item under MSME

9] Items as per the Tender is eligible for Concessional rate of GST (i.e., @ 5%) as per Ministry of Finance, Dept. of Revenue Notification No. 24/2018 Central Tax (Rate) Schedule-I; Sl. No. 243B dated 31.12.2018 (Amendment to Notification No. 6/2018 - Central Tax (Rate) dated 25.01.2018 and Notification No. 1/2017 dated 28.06.2017) and Government of Tamil Nadu, Commercial Taxes & Registration (B1) Department G.O(Ms) No.18 Dtd. 25/01/2018 & Schedule-I; Sl. No. 243 B as per the amendment dated 31.12.2018 (Amendment G.O(Ms)No.170 dated 31/12/2018). Necessary concessional GST certificate will be issued. Please confirm your acceptance.

## **A.1 Tender Schedule**

Bid Submission Start Date : **24-09-2024 17:00**

Bid Clarification Due Date : **22-10-2024 15:00**

Bid Submission Due Date : **24-10-2024 14:00**

Bid Opening Date : **24-10-2024 14:10**

Price Bid Opening Date : **29-10-2024 14:00**

## B. Tender Attachments

### Technical Write-up/Drawings

[Document : Local content declaration form](#)

### Instructions To Vendors

#### 2. LOCAL CONTENT DECLARATION CERTIFICATE FORMAT (in your letter head)

1. In line with the Government Public Procurement Order No. P/45021/2/2017-BE-II dtd . 15.06.2017 , as amended from time to time, and as applicable on the date of submission of tender, we hereby certify that , we M/s. \_\_\_\_\_ are local supplier meeting the requirement of minimum local content, \_\_\_\_\_%, as defined above in the orders for the material against Tender Enquiry No. \_\_\_\_ dtd. \_\_\_\_ .

2. The HSN No. of the item supplied is \_\_\_\_\_

Percentage of Local value addition , involved in the item are:

- 1.
- 2.
- 3.

3. This is also certified that the following factors are excluded in the above percentage: (strike out which are not applicable)

1. imported item sourced locally from resellers/distributors (value in \_\_\_\_% including tax, if applicable)
2. The license fee/royalties paid/technical charges paid out of india. (value in \_\_\_\_% including tax, if applicable)
3. Repackaged/refurbished/rebranded imported products (value in \_\_\_\_% including tax, if applicable)

4. The details of location at which the value addition will be made is as follows :

\_\_\_\_\_  
-----

5. We also understand that , false declarations will be in breach of code of integrity, under rule 175 (1) (i) (h), of the General Financial Rules, for which a bidder, or its successors can be debarred for up to 3 years under Rule 151 (iii) of the GFR along with such other actions as may be permissible under law.

For (company name)

Authorised Signatory

### **3. General Instructions**

1. Last minute clarification on tenders will not be entertained.
2. This is an E Tender. Hence Postal/Fax/Email tenders will not be accepted.
3. If a vendor is not able to submit bid against this tender due to any reason, such vendor is requested to post their REGRET message in the e-procurement portal with clear reasons or email to psogroup2@iprc.gov.in. Non submission of bids without regrets will be viewed seriously.
4. IPRC reserves the right to split the tendered quantity in part or whole on its sole discretion without assigning any reason.
5. IPRC has the right to cancel the tender without assigning any reason etc.
6. If any vendor submits forged / false documents along with the tender, offer of such vendors will be summarily rejected and such bidders will be blacklisted for all future tenders.
7. Option Clause:-The purchaser reserves the right to increase/decrease the ordered quantity by up to 25-30 percent at any time, till final delivery date (or the extended delivery date of the contract), by giving reasonable notice even though the quantity ordered initially has been supplied in full before the last date of the delivery period (or the extended delivery period)

### **4. Conditions for BIDDER FROM A COUNTRY WHICH SHARES LAND BORDER WITH INDIA**

1. Any false declaration and non-compliance of the above would be a ground for immediate rejection of offer or termination of the contract and further legal action in accordance with the laws.
2. As per the Rule 144(xi) of General Financial Rule, 2017, any bidder from a country which shares a land border with India will be eligible to bid in any procurement whether of goods, services (including consultancy services and non-consultancy services) or works (including turnkey projects) only if the bidder is registered with the competent authority ie., Department for Promotion of Industry and Internal Trade (DPIIT).
3. Hence, Vendors or Agents of a Vendor (Indian or others) from a country sharing border with India shall submit copy of valid registration made with Department for Promotion of Industry and Internal

Trade (DPIIT), Government of India along with the tender mandatorily, without which the offer will be treated as invalid.

#### 4. Model Certificate for Tenders

I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India; I certify that this bidder is not from such a country or, if from such a country, has been registered with the Competent Authority. I hereby certify that this bidder fulfils all requirements in this regard and is eligible to be considered

5. Validity of Registration: Registration should be valid at the time of submission of bids and should be valid at the time of placement of order.

#### 5. GeM Seller ID

1. GeM Seller Registration: All vendors shall register themselves in GeM Portal (gem.gov.in) and provide GeM Seller unique ID in the tender documents, as this ID is mandatory for award of contract.

#### 6. STANDARD TERMS AND CONDITIONS (DOS PM: 20)

##### 1. ACCEPTANCE OF STORES:

(a) The stores shall be tendered by the Contractor for inspection at such places as may be specified by the purchaser at the Contractor's own risk, expense and cost.

(b) It is expressly agreed that the acceptance of the stores Contracted for, is subject to final approval by the purchaser, whose decision shall be final.

(c) If, in the opinion of the purchaser, all or any of the stores do not meet the performance or quality requirements specified in the Purchase Order, they may be either rejected or accepted at a price to be fixed by the purchaser and his decision as to rejection and the prices to be fixed shall be final and binding on the Contractor.

(d) If the whole or any part of the stores supplied are rejected in accordance with Clause No. 8 (c) above, the purchaser shall be at liberty, with or without notice to the Contractor, to purchase in the open market at the expense of the Contractor stores meeting the necessary performance and quality Contracted for in place of those rejected, provided that either the purchase, or the agreement to purchase, from another supplier is made within six months from the date of rejection of the stores as aforesaid.

## 2. DELIVERY:

- (a) The time for and the date of delivery of the stores stipulated in the Purchase Order shall be deemed to be the essence of the Contract and delivery must be completed on or before the specified dates.
- (b) Should the Contractor fail to deliver the stores or any consignment thereof within the period prescribed for such delivery, the purchaser shall be entitled at his option either.
- (i) to recover from the Contractor as agreed liquidated damages and not by way of penalty, a sum of 0.5% per week of the price of any stores which the Contractor has failed to deliver as aforesaid or during which the delivery of such store may be in arrears subject to a minimum of 10%, or
- (ii) to purchase from elsewhere, without notice to the Contractor on the account and at the risk of the Contractor, the stores not delivered or others of a similar description (where others exactly complying with the particulars, are not, in the opinion of the purchaser, readily procurable, such opinion being final) without cancelling the Contract in respect of the consignment (s) not yet due for delivery, or
- (iii) to cancel the Contract or a portion thereof and if so desired to purchase or authorise the purchase of stores not so delivered or others of a similar description (where others exactly if complying with the particulars are not, in the opinion of the purchaser, readily procurable, such opinion final) at the risk and cost of the Contractor.

In the event of action being taken under sub-clause (ii) & (iii) of clause 10 (b) above, the Contractor shall be liable for any loss which the purchaser may sustain on that account, provided that the re-purchase or if there is an agreement to re-purchase then such agreement is made within six months from the date of such failure. But the Contractor shall not be entitled to any gain on such re-purchase made against default. The manner and method of such re-purchase shall be at the discretion of the purchaser, whose decision shall be final. It shall not be necessary for the purchaser to serve a notice of such re-purchase on the defaulting Contractor. This right shall be without prejudice to the right of the purchaser to recover damages for breach of Contract by the Contractor.

## 3. DISPATCH:

The Contractor is responsible for obtaining a clear receipt from the Transport Authorities specifying the goods dispatched. The consignment should be dispatched with clear Railway Receipt/Lorry Receipt. If sent in any other mode, it shall be at the risk of the Contractor. Purchaser will take no responsibility for short deliveries or wrong supply of goods when the same are booked on "said to contain" basis. Purchaser shall pay for only such stores as are actually received by them in accordance with the Contract.

#### 4. ERECTION OF PLANT & MACHINERY:

Wherever erection of a plant or machinery is the responsibility of the Contractor as per the terms of the Contract and in case the Contractor fails to carry out the erection as and when called upon to do so within the period specified by the purchaser, the purchaser shall have the right to get the erection done through any source of his choice. In such an event, the Contractor shall be liable to bear any additional expenditure that the purchaser is liable to incur towards erection. The Contractor shall, however, not be entitled to any gain due to such an action by the purchaser.

#### 5. EXTENSION OF TIME:

As soon as it is apparent that the Contract dates cannot be adhered to, an application shall be sent by the Contractor to the purchaser. If failure, on the part of the Contractor, to deliver the stores in proper time shall have arisen from any cause which the purchaser may admit as reasonable ground for an extension of the time (and his decision shall be final) he may allow such additional time as he considers it to be justified by circumstances, of the case without prejudice to the purchaser's right to recover liquidated damages under clause 10 thereof.

#### 6. GUARANTEE & REPLACEMENT:

(a) The Contractor shall guarantee that the stores supplied shall comply fully with the specifications laid down, for material, workmanship and performance.

(b) For a period of twelve months after the acceptance of the stores, if any defects are discovered therein or any defects therein found to have developed under proper use, arising from faulty stores design or workmanship, the Contractor shall remedy such defects at his own cost provided he is called upon to do so within a period of 14 months from the date of acceptance thereof by the purchaser who shall state in writing in what respect the stores or any part thereof are faulty.

(c) If, in the opinion of the purchaser, it becomes necessary to replace or renew any defective stores such replacement or renewal shall be made by the Contractor free of all costs to the purchaser, provided the notice informing the Contractor of the defect is given by the purchaser in this regard within the said period of 14 months from the date of acceptance thereof.

(d) Should the Contractor fail to rectify the defects, the purchaser shall have the right to reject or repair or replace at the cost of the Contractor the whole or any portion of the defective stores.

(e) The decision of the purchaser notwithstanding any prior approval or acceptance or inspection thereof on behalf of the purchaser, as to whether or not the stores supplied by the Contractor are defective or any defect has developed within the said period of 12 months or as to



whether the nature of the defects requires renewal or replacement, shall be final, conclusive and binding on the Contractor.

(f) To fulfill guarantee conditions outlined in clause 4 (a) to (e) above, the Contractor shall, at the option of the purchaser, furnish a Bank Guarantee (as prescribed by the purchaser) from a Bank approved by the purchaser for an amount equivalent to 3% of the value of the Contract along with first shipment documents. On the performance and completion of the Contract in all respects, the Bank Guarantee will be returned to the Contractor without any interest.

(g) All the replacement stores shall also be guaranteed for a period of 12 months from the date of arrival of the stores at purchaser site.

(h) Even while the 12 months guarantee applies to all stores, in case where a greater period is called for by our specifications then such a specification shall apply in such cases the period of 14 months referred to in para 4 (b) & (c) shall be the guarantee period plus two months.

#### 7. PERFORMANCE BANK GUARANTEE:

Supplier has to submit an interest free Performance Bank Guarantee for an amount equivalent to 3% (THREE PERCENT) of order value obtained from any scheduled Banks executed on Rs.200/- non-judicial stamp paper and shall be valid for a period of sixty days beyond expiry date of warranty period. The same shall be submitted along with Invoice towards final payment.

#### 8. PACKING FORWARDING & INSURANCE:

The Contractor will be held responsible for the stores being sufficiently and properly packed for transport by rail, road, sea or air to withstand transit hazards and ensure safe arrival at the destination. The packing and marking of packages shall be done by and at the expense of the Contractor. The purchaser will not pay separately for transit insurance, all risks in transit being exclusively of the Contractor and the Purchaser shall pay only for such stores as are actually received in good condition in accordance with the Contract.

#### 9. PRICES:

Tender offering firm prices will be preferred. Where a price variation clause is insisted upon by a tenderer, quotation with a reasonable ceiling should be submitted. Such offers should invariably be supported by the base price taken into account at the time of tendering and also the formula for any such variation/s.

#### 10. REJECTED STORES:

Rejected stores will remain at destination at the Contractor risk and responsibility. If instructions for their disposal are not received from the Contractor within a period of 14 days from the date of receipt of the advice of rejection, the purchaser or his representative has, at his discretion, the right to scrap or sell or consign the rejected stores to Contractor's address at the Contractor's entire risk and expense, freight being payable by the Contractor at actuals.

**11. SECURITY DEPOSIT(SD):**

The Supplier shall provide Bank Guarantee for an amount equivalent to the 3% (Three PERCENT) of the total Order value towards Security Deposit for the due performance of the Purchase Order. The Security Deposit can be submitted in the form of Bank Guarantee (format enclosed) or Fixed Deposit receipt obtained from any Nationalized/ Scheduled Bank and it shall be kept valid for a period of sixty days beyond the date of completion of the Purchase Order. This Security Deposit will be returned to the Supplier only upon successful completion of all the contractual obligations or shall be adjusted/ forfeited against non-fulfilment of any of the contractual obligations. The Security Deposit shall be submitted within 30 days from the date of receipt of Purchase Order.

**12. TEST CERTIFICATE:**

Wherever required, test certificates should be sent along with the dispatch documents.

13. The Purchaser shall mean the President of India or his successors or assigns.

## C. Bid Templates

### C.1 Technical Bid - Supply, Installation and Commissioning of Industrial 160 kV X ray machines with accessories

#### 1. Non-Destructive Testing : Industrial 160 kV Constant potential X ray machine

##### Item specifications for Non-Destructive Testing

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Supply, Installation and commissioning of Industrial 160 kV X ray machine	Detailed Specifications are attached in annexure	Yes / No / Explain		

**Document : Detailed specifications and conditions**

##### Common Specifications (Applicable for all items)

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Supply, installation, commissioning and training of 160kV Directional, Portable, Dual focus, light weight, Constant potential & 100 % Duty Cycle X ray Machine.	As per given specifications	Yes / No / Explain		
2	1. Tube Head		-		
3	1.1 X ray tube type	a) Metal-Ceramic b) Directional	Yes / No / Explain		
4	1.2 Tube High Voltage range	160 kV	Yes / No / Explain		
5	1.3 Tube current	0.5 to 20 mA or better	Yes / No / Explain		
6	1.4 Focal Spot size, Large Focus :	1.5 mm nominal or better as per EN12543 or equivalent	Yes / No / Explain		

7	1.5 Focal Spot size, Small focus :	0.4 mm nominal or better as per EN12543 or equivalent	Yes / No / Explain		
8	1.6 Large focus Maximum Tube Current :	10 mA or more @ 160kV Tube Power: 1600W or more Provision for higher mA at lower kV	Yes / No / Explain		
9	1.7 Small focus Maximum Tube Current :	4 mA or more @ 160kV Tube Power: 600W or more Provision for higher mA at lower kV	Yes / No / Explain		
10	1.8 Beam Angle	30° x 40°	Yes / No / Explain		
11	1.9 Filtration :	Be / Cu filter	Yes / No / Explain		
12	1.10 Anode Cooling :	Closed circuit type water cooling system with hoses of length 10m or more	Yes / No / Explain		
13	2. Control Unit		-		
14	2.1 Microprocessor controlled unit	Microprocessor controlled unit with digital display, automatic warm-up and diagnostic mode, 250 or more storable exposure programs, If applicable selectable pre-warming time etc.,	Yes / No / Explain		
15	2.2 Mains input voltage :	230V (±10%), 50 ± 3 Hz single phase	Yes / No / Explain		
16	2.3 Parameters settings :	True measure and display of Tube voltage and Current, adjustable in steps of 1 kV and 0.1 mA respectively or finer.	Yes / No / Explain		
17	3. High Voltage Generator		-		
18	3.1 HV Generator :	Compatible Generator for the above X-ray tube	Yes / No / Explain		
19	3.2 Tube Voltage :	10 to 160kV or better	Yes / No / Explain		
20	3.3 Tube current :	0.5 to 20 mA or better	Yes / No / Explain		
21	3.4 Input Voltage :	230V (±10%), 50 ±3 Hz single phase	Yes / No / Explain		

22	3.5 Ripple	It shall be <0.1%	Yes / No / Explain		
23	3.6 Compact	Oil/Solid/Gas insulated HV module	Yes / No / Explain		
24	3.7 Safety interlocks :	3.7.1. Power circuit failure safety 3.7.2. Key switch position safety 3.7.3. Preheating/warmup mode safety 3.7.4. Over load safety 3.7.5. Over voltage safety 3.7.6. Door interlock safety switch with cable of length 20m 3.7.7. Coolant safety 3.7.8. Insulation gas safety (If applicable)	Yes / No / Explain		
25	3.8 High Voltage connection	R24	Yes / No / Explain		
26	3.9 HV cable Length	10 m	Yes / No / Explain		
27	4. Water cooler System		-		
28	4.1 Water Cooler System:	a) Closed circuit type water cooling unit with pump water filter and Rubberized hoses and QC/DC arrangement to connect X-ray tube head and cooler unit. b) Cooling shall be efficient to provide 100% duty cycle. c) Supplier shall supply Six additional QC/DC connectors (Spare) along with the supply	Yes / No / Explain		
29	5. Essential Accessories		-		

30	5.1 Tri-pod stand:	a) Mobile Tri-pod Tube Stand with handle, adjustable height min. 1m from ground and provision for up/down movement and to fix the tube head at necessary exposure angles. b) Tube should rotate 360° about its own axis and also about the axis perpendicular to the tube axis. c) Attach the supporting catalogue /brochure's along with the quote	Yes / No / Explain		
31	5.2 Laser Centering Device with clamp:	a) It shall have quick lock and release mechanism b) It shall have a foolproof design for non-remembrance of return its original position from tube head after setting c) Supplier shall supply one additional Laser Centering device along with the supply (Total : 2 Nos.)	Yes / No / Explain		
32	5.3 Telescopic centering rod with clamp:	Easy fit and removal design is preferable	Yes / No / Explain		
33	5.4 Limit Switches	2 Nos. for safety interlock should be incorporatable with our two sliding doors	Yes / No / Explain		
34	5.5 Warning Lamp	Warning Lamp (Red) with cable length 20 m or more.	Yes / No / Explain		
35	5.6 Lead obturator	To be fitted with tube head while Pre-Heating	Yes / No / Explain		

36	5.7 Two or three wheeled trolley	<p>Two or three wheeled trolley for moving the entire system for easy site handling.</p> <p>a) Compact two wheeled (Hard rubber or Solid) trolley /cart must accommodate HV Generator, Tube head, Water cooler and HV cables also provisions to wrap the cables.</p> <p>b) An Eye bolt arrangement shall be given for easy lifting by a crane.</p> <p>c) Supplier shall furnish the catalogue /brochure along with the quote</p>	Yes / No / Explain		
37	5.8 Radiation survey meter:	<p>a) Capability to measure Gamma and X radiation, Operating ranges: 50 keV to 1MeV or better</p> <p>b) Measuring ranges:5 mSv/h to 3 Sv/h or better</p> <p>c) Accuracy: Within 10% of reading between 10% and 100% of full scale indication on any range</p> <p>d) Supplier shall furnish the calibration certificate and warranty certificate for survey meter.</p>	Yes / No / Explain		
38	5.9 Computer with accessories :	<p>The X ray machine Outputs like Operational history, Preheating history shall be monitored through exclusive Desktop PC (Monitor 24 Inch ,processor i5 or better, 2 GB Graphics card &amp; 500 GB Hard disk or better) with essential accessories.</p>	Yes / No / Explain		
39	Terms and Conditions		-		

40	6 Warranty	All the supplied items shall be warranted for the period of minimum 12 months from the date of successful installation, commissioning and Acceptance of the machine at our site.	Yes / No / Explain		
41	7 Delivery terms	7.1. All ordered items shall be supplied in ONE LOT without any part/short shipment 7.2. Delivery Schedule: 6 Months from the date of receipt of Purchase Order 7.3. The supplier shall provide advance intimation to IPRC for arranging the procurement clearance/NOC from BARC/AERB. Necessary documents shall be provided to IPRC to meet the delivery schedule.	Yes / No / Explain		



42	8 Pre-Delivery Inspection	<p>8.1. Prior to transportation to the site the supplier shall perform factory acceptance tests of following important parameters of the 160 kV X-ray equipment (i) X-ray dose rate, (ii) Electron beam current, (iii) X-ray energy, (iv) Focal spot size, (v) Leakage of X-Rays and (vi) safety interlocks</p> <p>8.2. All the performance test and calibration results of the machine to be sent to IPRC prior to pre-delivery inspection for review at our end.</p> <p>8.3. Minimum four weeks time gap shall be given for arranging the travel and other formalities for pre-delivery inspection by IPRC personnel.</p> <p>8.4. Performance test and capability demonstration 160 kV X-ray equipment of the system shall be carried out at the supplier's site in presence of IPRC representatives. The machine has to be fully assembled for this purpose.</p> <p>8.5. Training to our representatives at the supplier's site for the operation of the machine, basic training on maintenance and troubleshooting shall be provided.</p> <p>8.6. The inspection and calibration certification for compliance to the specified requirements as per the specification shall be verified by IPRC personnel. Dispatch clearance will be provided by IPRC representatives based</p>	Yes / No / Explain		
----	---------------------------	---	--------------------	--	--

		on the satisfactory pre-dispatch inspection and testing at your site.			
43	9 Testing, Evaluation & Acceptance by Statutory board	The system should have regulatory clearance from the Radiation & Nuclear Safety Authority of the country of origin / International Atomic Energy Agency (IAEA), especially for design approval and type approval from AERB to operate within India for industrial radiography. The system should have compliance with respect to international norms for environmental protection, radiation safety and electromagnetic compatibility. Supplier shall obtain necessary clearance such as Type Approval for 160 kV X-ray equipment from Atomic Energy Regulatory Board (AERB) of India.	Yes / No / Explain		
44	10 Installation and commissioning	10.1. Installation, commissioning, demonstration and Training for the machine shall be carried out at IPRC 10.2. Installation should be within One month from the receipt of equipment at our site.	Yes / No / Explain		

45	11 Non-Comprehensive AMC	<p>11.1. The party shall undertake Non-comprehensive AMC for a period of three years, after the expiry of warranty period.</p> <p>11.2. The quote shall be in Indian Rupees since Non-comprehensive AMC is to be carried out by the authorized Indian service provider of the manufacturer.</p> <p>11.3. A separate contract Purchase order will be released after completion of warranty period.</p> <p>11.4. The scope shall be for two half yearly Preventive maintenance and one Breakdown visits per year. For each preventive maintenance, duration shall be minimum 2 days per visit. Party can quote for additional breakdown charges per visit basis separately.</p> <p>11.5. Though, quotations are also sought for Annual Maintenance Contract (AMC), it is to be noted that the AMC will be placed after completion of warranty period, accordingly, the prices quoted for the AMC should be valid till such time.</p> <p>11.6. The cost of the Non-comprehensive AMC will be considered for evaluation of price bid</p>	Yes / No / Explain		
----	--------------------------	--	--------------------	--	--

46	12 Technical documents	<p>a. Party shall provide test data of primary beam output in rads / seiverts / min at 1m distance at various kV and also leakage radiation from tube head when primary beam is closed with lead obturator.</p> <p>b. Calibration and focal point measurement method and data shall be provided</p> <p>c. Operational manual and service manual including maintenance instructions (2 sets) in English shall be provided (Both Hard copy and softcopy).</p> <p>d. Original product catalogues must be supported for product/system specifications.</p>	Yes / No / Explain		
47	13.0 Pre-Qualification Criteria (Table-A)		-		
48	Criteria	Vendor Compliance (Yes/No)	Yes / No / Explain		
49	13.1 The tenderer/party shall be a Manufacturers (OEM) of 160 kV constant potential X-ray system or their authorized dealers. (If dealers quoted, authorization certificates shall be attached).		-		

50	<p>13.2 Heritage of supplying constant potential (100% Duty cycle) X-ray machines to ISRO centres/ other units/ Engineering industry/ Organisation shall be provided along with proof such as P.O copy/Installation report, Contact person etc. Purchaser reserves the right to evaluate the equipment performance at the shop floor.</p>		-		
51	<p>13.3 160 kV X-ray unit shall have type approval of AERB and shall satisfy AERB norms with respect to leakage radiation.</p>		-		

52	<p>13.4 Party shall provide assured support of maintenance and service for at least five years after the warranty period. Supplier should have after sales service facility and trained manpower in India to promptly attend preventive/ breakdown maintenance of X-ray system subsequent to commissioning of the same.</p>		-		
53	<p>13.5 The party shall ensure the availability of essential spares/accessories for at least 10 years.</p>		-		
54	<p>13.6 Bidder shall submit other information in the enclosed vendors evaluation format. The bid submitted without the evaluation format will not be considered for evaluation.</p>		-		
55	<p>14.0 Instructions for submitting offers</p>		-		

56	14.1 The suppliers shall submit their offers in two separate part as under: Part-I: Techno –Commercial Part-II: Price Bid	The offers should include the following details; a) Basic Price of full complement of the machine as per specification and scope of work as per tender document. b) Price for critical spares and consumables for trouble free operation with break-up cost for each. c) Price for Installation & commissioning of the machine at purchasers site. d) Price for optional items with cost break up. e) Price for Annual Maintenance Contract for three years. f) Price for work holding devices or fixtures if any.	Yes / No / Explain		
57	14.2 Part-I: Techno –Commercial	a) Techno-Commercial part shall clearly indicate in addition of quotation, the technical details, the terms & conditions like Payment Terms, Delivery conditions, Validity, Warranty/Guarantee, Delivery period, LD, PBG and SD etc. b) Complete Literature relevant to the offer, as applicable shall be enclosed to the Techno-commercial part of the tender	Yes / No / Explain		

58	14.3 Part-II: Price Bid	<p>a) Part-II, Price part shall only indicate price as per Tender Form enclosed (Annexure- 1).</p> <p>b) Prices shall be mentioned in the space / column provided in the ISRO e-procurement portal only for such purpose.</p> <p>c) The currency shall be legibly indicated both in numerals and words in the appropriate space/column.</p> <p>d) Price Bid , (Part-II) technically and commercially acceptable bids will be opened at a later date.</p> <p>e) The offer shall be valid for a minimum period of 90 days from the tender due date.</p>	Yes / No / Explain		
----	----------------------------	---	--------------------	--	--

### Supporting Documents required from Vendor

**1. Local content declaration to be submitted as per format provided in the documents**

**2. Detailed compliance statement and offer**

**3. The party shall provide the all necessary data sheet , Autorization certificate,Performance certificate as mentioned in the Specification annexure sheet**

**4. Minimum criteria for qualification as per attached annexure table-A**

**5. Price bid document with Break up cost as per enclosed format (Price Bid Related)**

5 additional documents can be uploaded by the vendor



## C.2 Commercial Terms / Bid

Sl. No.	Description	Compliance	Vendor Terms
1	The scope of the supplier includes supply, installation & commissioning of 160 kV X ray machines with accessories. The technical specifications of 160 kV X ray system Annexure enclosed	Yes / No / Explain	
2	Delivery Period: within 6 months from the date of acceptance of Purchase Order	Yes / No / Explain	
3	AMC quote :The party shall undertake Non-comprehensive AMC for a period of three years, after the expiry of warranty period	Yes / No / Explain	
4	Taxes and other costs, if any: (Specify)	Yes / No / Explain	
5	Validity of Offer (specify)	Yes / No / Explain	
6	Delivery Period (specify)	Yes / No / Explain	
7	Delivery Terms: Normal delivery terms - FOR Destination (i.e., IPRC, Mahendragiri)	Yes / No / Explain	
8	PAYMENT TERMS - Our normal payment terms is 100% within 30 days of receipt and acceptance of the items (No advance payment allowed). Specify your payment terms.	Yes / No / Explain	

9	<p>Security Deposit: Supplier shall submit an interest free Security Deposit for an amount equivalent to 3% of the order value, obtained through Bank Guarantee or fixed deposit receipt from any of the Nationalized/Scheduled Banks executed on non-judicial stamp paper of Rs.200/- value, and shall be kept valid for a period of sixty days beyond the date for completion of the Purchase Order. The Security Deposit can be submitted within 15 days from date of PO.</p> <p>1.In case of BG, confirmation for issued BG may be sent by issuing Bank/Branch to : IFSC Code: SBIN0000880; SBI, Nagercoil Branch.</p> <p>2.In case of FDR, the lien should be marked to Sr. Accounts Officer, IPRC, Mahendragiri.</p> <p>3.In case of DD, it should be drawn in the favour of Sr. Accounts Officer, IPRC, Mahendragiri, payable at Mahendragiri.</p>	Yes / No / Explain	
10	Confirm: Conditions for BIDDER FROM A COUNTRY WHICH SHARES LAND BORDER WITH INDIA	Yes / No / Explain	
11	Name of PRINCIPAL, Address, Contact No, E-mail Id etc. (specify):	Yes / No / Explain	
12	Currency quoted (specify)	Yes / No / Explain	
13	Warranty / Guarantee Period: (specify)	Yes / No / Explain	
14	Only Class-I and Class-II Local suppliers as per Make in India Policy are eligible to participate in the bid. Percentage of Local Content for the offered item / items shall be specified	Yes / No / Explain	
15	Liquidated Damages - Delivery is the essence of the order. If delivery is delayed beyond the stipulated delivery period, LD at 0.5% per week shall be recovered subject to a maximum of 10% of order value of undelivered items	Yes / No / Explain	
16	MSE preference is applicable only against the claim of the manufacturer and production of documentary evidence by the manufacturer	Yes / No / Explain	

17	Bank Details (State Bank of India, Mahendragiri, Tirunelveli (Dist) - 627 133) Details of your bank shall be furnished.	Yes / No / Explain	
18	Percentage of Local Content shall be declared in the prescribed format attached. For the items sold by the bidders as a resellers, Country of Origin Certificate from your OEM shall be submitted mandatorily.	Yes / No / Explain	
19	PERFORMANCE BANK GUARANTEE: Supplier shall furnish Performance Bank Guarantee for an amount equivalent 3% of order value on Non-Judicial stamp paper of appropriate value, obtained from any of the scheduled / nationalized Banks, valid for a period of 60 days beyond completion of warranty period.	Yes / No / Explain	
20	Any other terms	-	

### C.3 Price Bid

Sl. No.	Item	Quantity	Unit Price	Currency	Total Price	Remark
1	Non-Destructive Testing : Industrial 160 kV Constant potential X ray machine	2.00 Sets		-		