



**RESERVE BANK OF INDIA
ESTATE DEPARTMENT
THIRUVANANTHAPURAM**

NOTICE INVITING TENDER

Reserve Bank of India invites e-Tender for Supply, installation, testing and commissioning of X-Ray Baggage Scanner System for Bank's Office Building at RBI, Thiruvananthapuram. The tendering would be done through the e-Tendering portal of MSTC Ltd (<http://mstcecommerce.com/eprochome/rbi>). The Schedule of e-Tender is as follows:

Schedule of Tender (SOT)

a. e-Tender Name	Supply, installation, testing and commissioning of X-Ray Baggage Scanner System for Bank's Office Building at RBI, Thiruvananthapuram
b. e-Tender no	RBI/Thiruvananthapuram/ESTATE/143/21-22/ET/197
c. Mode of Tender	e-Procurement System (Online Part I - Techno-Commercial Bid and Part II - Price Bid through www.mstcecommerce.com/eprochome/rbiind)
d. Date of NIT available to parties to download	17:00 Hrs of onwards on October 05, 2021
e. Pre-Bid meeting	11.00 Hrs on October 12, 2021
f. Earnest Money Deposit	Details for NEFT for EMD Payment of ₹31,000.00/- Beneficiary Name: ESTATE<space>xbis<space>Your Firm's Name Beneficiary Ac No: 8614038 IFSC: RBIS0THPA01 Remarks: ESTATE Xray Baggage Scanner OR ₹31,000.00/- (Rupees Thirty one thousand only) in the form of DD/ BG (as per Annexure 3) in favour of Reserve Bank of India, Thiruvananthapuram, to be deposited in original at Estate Department, RBI, Thiruvananthapuram by 1.00 pm on October 28, 2021.
g. Last date of submission of EMD	13:00 Hrs On October 28, 2021

h. Date of Starting of e-Tender for submission of on line Techno-Commercial Bid and price Bid at www.mstcecommerce.com/eprochome/rbj	17:00 Hrs on October 13, 2021
i. Date of closing of online e-tender for submission of Techno-Commercial Bid & Price Bid	14:00 Hrs on October 28, 2021
j. Date & time of opening of Part-I of e-Tender (i.e. Techno-Commercial Bid)	15:00 Hrs on October 28, 2021
k. Date & Time of opening of Part- II (Price Bid)	Opening of price bid shall be intimated separately
l. Transaction Fee	To be paid through MSTC Payment Gateway/ NEFT/ RTGS in favour of MSTC Limited or as advised by M/s MSTC Ltd.

Applicants intending to apply will have to satisfy the Bank by furnishing documentary evidence in support of their possessing required eligibility and in the event of their failure to do so, the Bank reserves the right to reject their candidature.

The Bank is not bound to accept the lowest tender and reserves the right to accept either in full or in part any tender and reserves the right to reject all the tenders without assigning any reason therefor.

Amendment / corrigendum to the tender, if any, issued in future will only be notified on the RBI Website and MSTC Website as given above.

Regional Director for Kerala and Lakshadweep



**RESERVE BANK OF INDIA
ESTATE DEPARTMENT
THIRUVANANTHAPURAM**

**Supply, installation, testing and commissioning of
X-Ray Baggage Scanner System for Bank's Office Building at
RBI, Thiruvananthapuram**

E-Tender no	RBI/Thiruvananthapuram/ESTATE/143/21-22/ET/197
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Part I

Name of the tenderer _____

Address _____

Contact Person :-

Mobile No :-

Email id :-

Due Date of Submission of E-Tender: 02.00 PM on October 28, 2021

Date of Pre-bid Meeting: 11:00 AM on October 12, 2021

Important instructions for E-procurement

Bidders are requested to read the terms & conditions of this tender before submitting your online tender. **1**

Process of e-Tender:

A) Registration: The process involves vendor's registration with MSTC E-procurement portal which is **free of cost**. Only after registration, the vendor(s) can submit his/their bids electronically. Electronic Bidding for submission of Technical Bid as well as Commercial Bid will be done over the internet. The Vendor should possess Class III signing type digital certificate. Vendors are to make their own arrangement for bidding from a P.C. connected with Internet. MSTC is not responsible for making such arrangement. (Bids will not be recorded without Digital Signature).

SPECIAL NOTE: THE TECHNICAL BID AND THE COMMERCIAL BID

HAS TO BE SUBMITTED ON-LINE AT

www.mstcecommerce.com/eprochome/rbi

1). Vendors are required to register themselves online with www.mstcecommerce.com → e-Procurement → PSU/Govt depts → Select RBI Logo → Register as Vendor → Filling up details and creating own user id and password → Submit.

2). Vendors will receive a system generated mail confirming their registration in their email which has been provided during filling the registration form. In case of any clarification, please contact RBI/MSTC, (before the scheduled time of the e-tender).

Contact person (RBI, Thiruvananthapuram):

1. V Jayaraj (AGM)-8547868519 (vjayaraj@rbi.org.in)
2. R Sureshkumar (AM-Tech) 9446021054 (rsureshkumar@rbi.org.in)
3. T Gowthami (AM) 0471 2783045 (gowthamit@rbi.org.in)

Contact person (MSTC Ltd):

1. MSTC, Office Address: 1st Floor, Forest Central Library Building, Kerala Forest Head Quarters, Vazhuthacaud, Thiruvananthapuram – 695014, mstctvm@mstcindia.co.in, Ph: 0471-2529137
 2. Shri Santhosh Kumar- skrajendran@mstcindia.co.in Mobile 8884600700
 3. Mr. Sushil Nale, Asst. Manager – sushil@mstcindia.co.in Mobile- 09987758460
 4. Ms. Archana, Asst. Manager- archana@mstcindia.co.in Mobile- 09990673698
 5. Ms. Rupali Pandey, Executive- rpandey@mstcindia.co.in Ph- 022 22886268
 6. Mr. Tejas V, Executive tejasv@mstcindia.co.in Ph-022 22822789 Google hangout ID- (for text chat)- mstceproc@gmail.com
- E-mail Help Desk- helpdesk@mstcindia.co.in

	<p>B) System Requirement:</p> <p>i) Windows 7 or above Operating System ii) IE-7 and above Internet browser.</p> <p>iii) Signing type digital signature iv) Latest updated JRE 8 (x86 Offline) software to be downloaded and installed in the system.</p> <p>To disable “Protected Mode” for DSC to appear in The signer box following settings may be applied.</p> <ul style="list-style-type: none"> ➤ Tools => Internet Options =>Security => Disable protected Mode, if enabled- i.e, Remove the tick from the tick box mentioning “Enable Protected Mode”. Other Settings: ➤ Tools => Internet Options => General => Click on Settings under “Browsing history/Delete Browsing History” => Temporary Internet Files => Activate “Every time I Visit the Webpage”. ➤ To enable ALL active X controls and disable ‘use pop up blocker’ under Tools →Internet Options→ custom level (Please run IE settings from the page https://www.mstcecommerce.com once)
2	<p>The Techno-commercial Bid and the Price Bid shall have to be submitted online at https://www.mstcecommerce.com/eprchome/rbi. Tenders will be opened electronically on specified date and time as given in the Tender.</p>
3	<p>All entries in the tender should be entered in online Technical & Commercial Formats without any ambiguity.</p>
4	<p>Special Note towards Transaction fee:</p> <p>The vendors shall pay the transaction fee using “Transaction Fee Payment” Link under “My Menu” in the vendor login. The vendors have to select the particular tender from the event dropdown box. The vendor shall have the facility of making the payment either through NEFT or Online Payment. On selecting NEFT, the vendor shall generate a challan by filling up a form. The vendor shall remit the transaction fee amount as per the details printed on the challan without making change in the same. On selecting Online Payment, the vendor shall have the provision of making payment using its Credit/ Debit Card/ Net Banking. Once the payment gets credited to MSTC’s designated bank account, the transaction fee shall be auto authorized and the vendor shall be receiving a system generated mail.</p> <p>Transaction fee is non-refundable. A vendor will not have the access to online e-tender without making the payment towards transaction fee.</p> <p>NOTE: Bidders are advised to remit the transaction fee well in advance before the closing time of the event so as to give themselves sufficient time to submit the bid.</p>
5	<p>Information about tenders /corrigendum uploaded shall be sent by email only during the process till finalization of tender. Hence the vendors are required to ensure that their corporate email I.D. provided is valid and updated at the time of registration of vendor with MSTC. Vendors are also requested to ensure validity of their DSC (Digital Signature Certificate).</p>
6	<p><u>E-tender cannot be accessed after the due date and time mentioned in NIT.</u></p>

7	<p>a) The process involves Electronic Bidding for submission of Technical and Commercial Bid.</p> <p>b) The vendor(s) who have submitted transaction fee can only submit their Technical Bid and Commercial Bid through internet in website: https://www.mstcecommerce.com → e-procurement →PSU/Govt depts→ Login under RBI → My menu→ Auction Floor Manager→ live event →Selection of the live Event.</p> <p>c) The vendor should allow running JAVA application. This exercise has to be done immediately after opening of Bid floor. Then they have to fill up Common Terms/Commercial specification and save the same. After that click on the Technical bid. If this application is not run, then the vendor will not be able to save/submit his Technical bid.</p> <p>d) After filling the Technical Bid, vendor should click 'save' for recording their Technical bid. Once the same is done, the Commercial Bid link becomes active and the same has to filled up and then vendor should click on "save" to record their Commercial bid. Then once both the Technical bid & Commercial bid has been saved, the vendor can click on the "Final submission" button to register their bid.</p> <p>e) Vendors are instructed to use <i>Attach Doc button</i> to upload documents. Multiple documents can be uploaded.</p> <p>f) In all cases, vendor should use their own ID and Password along with Digital Signature at the time of submission of their bid.</p> <p>g) During the entire e-tender process, the vendors will remain completely anonymous to one another and also to everybody else.</p> <p>h) The e-tender floor shall remain open from the pre-announced date & time and for as much duration as mentioned above.</p> <p>i) All electronic bids submitted during the e-tender process shall be legally binding on the vendor. Any bid will be considered as the valid bid offered by that vendor and acceptance of the same by the Buyer will form a binding contract between Buyer and the Vendor for execution of supply.</p> <p>j) It is mandatory that all the bids are submitted with digital signature certificate otherwise the same will not be accepted by the system.</p> <p>k) Buyer reserves the right to cancel or reject or accept or withdraw or extend the tender in full or part as the case may be without assigning any reason thereof.</p> <p>l) No deviation of the terms and conditions of the tender document is acceptable. Submission of bid in the e-tender floor by any vendor confirms his acceptance of terms & conditions for the tender.</p> <p>m) Pages of Part I (Techno-Commercial Bids) of the tender where details shall be filled in and signed, shall be downloaded from the uploaded tender documents, details to be filled in, signed and uploaded. Vendors are instructed to use 'Attach Doc' button to upload documents. Multiple documents can be uploaded.</p>
	Any order resulting from this tender shall be governed by the terms and conditions mentioned therein.
	The tender inviting authority has the right to cancel this e-tender or extend the due date of receipt of bid(s) without assigning any reason thereof.
	Vendors are requested to read the vendor guide and see the video in the page https://www.mstcecommerce.com/eprochome/rbi to familiarize them with the system

	before bidding.
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Important Note

In the price bid due to number of words limitation of 1000 characters, complete description could not be accommodated and description given thereof is brief. Before quoting rates, all the contractors must read the complete details of each items given in the un-priced bill of quantities (BOQ) given in Part-I of the tender. For execution and rate purpose, the details given in Unpriced Bill of Quantities in Part-I of the tender will be implemented.

Section I

Commercial Terms and Conditions

Form of Tender

The Regional Director
Reserve Bank of India
Estate Department
Thiruvananthapuram

Madam

We have carefully examined the specifications, designs and schedule of quantities relating to the works specified in the memorandum hereinafter set out and having visited and examined the installation site of the works specified in the said memorandum and having acquired the requisite information relating thereto as affecting the tender. We hereby offer to execute the works specified in the said memorandum within the time specified in the said memorandum at the rates mentioned in the attached Schedule of Quantities and in accordance in all respects with specifications, designs and instructions in writing referred to in articles of agreement, general instructions to the tenderers and special conditions, conditions hereinbefore referred to, specifications, data sheet and schedule of quantities and with such materials as are provided for, by and in all other respects, in accordance with such conditions so far as they may be applicable.

MEMORANDUM

(a)	Description of works	Supply, installation, testing and commissioning of X-Ray Baggage Scanner System for Bank's Office Building at RBI, Thiruvananthapuram
(b)	Estimated cost	₹ 15.50 lakh
(c)	Earnest Money	₹ 31,000/-
(d)	Percentage to be deducted from bills	5%
(e)	Time allowed for completion of the work from tenth day after the date of written order to commence work	12 weeks

2. Should this tender be accepted, we hereby agree to abide by and fulfil the terms and provisions of the said Condition of Contract annexed hereto so far as they may be applicable or in default thereof to forfeit and pay to the Reserve Bank of India the amount mentioned in the said conditions.
3. We have deposited a sum of ₹31,000/- as earnest money with the Reserve Bank of India, which amount is not to bear any interest. Should we fail to

execute the Contract when called upon to do so, we do hereby agree that this sum shall be forfeited by us to the Reserve Bank of India.

4. The list showing the particulars and the names of manufacturers of specified item are enclosed.

5. The details of our bankers are

Sr. No.	Name of Bank	Branch and its complete address	Name of the contact person	Telephone and FAX number
1	2	3	4	5

We are enclosing herewith list of our clients with complete details as per the Bank's proforma ([Annexure - I](#)).

Name of the partner of the firm authorised to sign (or)

Name of person having power of Attorney to sign the contract. (Certified true copy of the Power of Attorney should be attached.)

Yours faithfully

Signature of Contractor

(Signatures and addresses of witnesses)

Section II

General instructions to tenderer(s) & special conditions

Reserve Bank of India

Supply, installation, testing and commissioning of X-Ray Baggage Scanner System for Bank's Office Building at RBI, Thiruvananthapuram

Part I - Commercial Conditions

Only those contractors who have minimum 5 years' experience in the field of undertaking similar works viz Supply, installation, testing and commissioning of X-Ray Baggage Scanner System units and associated works for the office buildings/commercial premises/industrial houses and have, during the last 5 years (works completed on or after September 2016), executed successfully similar works individually costing as under:

(a) Three works each costing not less than 40% of estimated cost.

OR

(b) Two works each costing not less than 50% of estimated cost.

OR

(c) One work costing not less than 80% of estimated cost.

AND

(d) Have a minimum yearly turnover of 100% of estimated cost during the last 3 years supported by audited financial statements.

AND

(e) Have a service set up at Thiruvananthapuram or Kochi for rendering after sales service.

Tenderers should submit the following documents in respect of their eligibility:

- i. Copies of detailed work order indicating scope and value of works.
- ii. Completion certificate for the qualifying works.
- iii. List of completed works with all the details as per the proforma
- iv. Financial statement for turnover for last 3 years
- v. Banker's Certificate

Only tenderers who qualify as above will be eligible to tender for the work. A tender submitted by a firm who is found to be not satisfying the above criteria will be liable for rejection

1. **Pre-bid meeting:** - A pre-bid meeting will be held at 11.00 AM on October 12, 2021 at Reserve Bank of India, Thiruvananthapuram to discuss/clarify anything about the tender. No separate communication will be sent for this

meeting. All the intending tenderers are advised to be present and study the tender documents.

2. Tenderers are required to submit the details of the works carried out by them during last 5 years along with the name and contact no. of the users of the equipment in the enclosed format.
3. A tender submitted by a firm who is found to be not submitting the above details will liable to be rejected.
4. Tenders shall be submitted in two parts viz. Part I containing technical and commercial details of the offer and Part II containing prices only. While Part I will be opened on the same day at 3 PM. Part II will be opened on subsequent date, which will be intimated to the tenderers in advance.
5. The Reserve Bank of India reserves the right to accept or reject any or all the tenders, in full or in part, without assigning any reason therefore. The Bank also reserves the right to accept the tender of any firm. Tenderers are requested to quote unit rates and amounts separately. They are also requested to use the enclosed proforma only (and not to use their own format).
6. **Earnest Money** :- The tenderers shall pay as Earnest Money a sum of Rs.31,000/- (Rupees Thirty one thousand only) by a demand draft or Bank Guarantee in a form ([Annexure-3](#)) valid for 6 months, acceptable to the Bank in favour of Reserve Bank of India, Thiruvananthapuram drawn on a scheduled bank along with Part I of the tender or through NEFT by October 28, 2021. The Earnest Money Deposit of the successful tenderer shall be released without any interest on issue of virtual completion certificate. The Earnest Money Deposit of unsuccessful tenderer shall be released to them without any interest after award of work.
7. **Validity of tender**:-The tenders shall be valid for a period of 90 days from the date of opening of Part I of the tender.
8. The rates quoted shall be inclusive of all duties, transport, packing, forwarding, insurance etc. and shall be for the complete work duly installed and commissioned at site. The prices quoted shall remain firm for the entire period of contract and shall not be subjected to any variations in the foreign exchange or variations of any other taxes, levies, duties etc. No import license will be furnished by the Bank. The tenderers shall make their own arrangement for import of any part or components, if any, required for completion of the work.

9. **Completion of work:** - The entire work of supply, installation, testing and commissioning of the system shall be completed within a period of 12 weeks from the 10th day of date of issue of work order.
10. **Damages for non-completion:** If the Contractor fails to complete the works within tender specified completion period, the Contractor shall pay the Employer at rate of **0.25%** of the contract amount per week for the period during which the said works shall so remain incomplete subject to a maximum of 10% of the contract amount and the Employer may deduct such damages from any money due to the Contractor.
11. **Service set-up:** - The tenderers shall indicate details of the service centre at Thiruvananthapuram or Kochi, the staff strength, contact numbers and the availability of spares for the system as per enclosed [Annexure-VII](#).
12. **Warranty/Defect Liability period and Annual Comprehensive Maintenance Service contract:**
- a. The equipment supplied shall be guaranteed against all types of defects for a period of one year from the date of virtual completion. Any defects in the system/sub-assemblies, found within the guarantee period, shall be rectified/replaced by the tenderer without any additional cost to the Bank. The rate should include for servicing at monthly interval or earlier as prescribed by the manufacturer and as mutually agreed to during this period.
 - b. The tenderers shall also quote their charges separately for comprehensive annual maintenance service (AMC) after the expiry of the one year guarantee period. During the comprehensive annual maintenance service contract period, the servicing shall be carried out at quarterly interval or earlier as prescribed by the manufacturer and as mutually agreed shall be carried out in addition to any number of breakdown calls. These rates shall be applicable from the date of expiry of one year guarantee period. Comprehensive annual maintenance service charges shall be paid on half yearly basis on rendering satisfactory service and on submission of service reports.
 - c. The charges for comprehensive annual maintenance service shall include replacement of any part of the system, including all required spares, consumables etc during service contract period. Any defects in the system/sub-assemblies, found within the AMC period, shall be rectified/replaced by the tenderer without any additional cost to the Bank.
 - d. During the warranty period or the comprehensive annual maintenance service period, any fault in the system shall be rectified within 24 hours of receipt of intimation of the defect in the system. The quoted rates shall, therefore, take into account all the cost, including travel cost from the nearest service station. There will be a penalty of ₹ 500/- per day subject to maximum of the annual maintenance charges, if the defect in the system is

not rectified within the period of 24 hours as stated above. In addition to this, if the system **is not rectified within the period of 10 days, the Bank shall have right to rectify the system at risk and cost of the contractor. The Bank shall have also right to invoke the BG as a penalty for delay in rectifying the system and terminate the contract, if service rendered by the contractor is found to be unsatisfactory.**

- e. The service contract shall be renewed for a further additional period of at least 8 years after the initial annual service contact period of one year after one year warranty. While renewing the contract the new contract amount will be arrived at based on following formula.

$A_C = A_P [(15+60x(EPI_C/EPI_P)+25x(CPI_C/CPI_P))] \times 100$	
A_C	The contract amount for the current year.
A_P	The contract amount for the previous year.
EPI_C	Wholesale Price Index for Electrical Products 6 months prior to the commencement date of contract for the current year.
EPI_P	Wholesale Price Index for Electrical Products 6 months prior to the commencement date of contract for the previous year.
CPI_C	Consumer Price Index for Industrial Workers (All India Average) 6 months prior to the commencement date of contract for the current year.
CPI_P	Consumer Price Index for Industrial Workers (All India Average) 6 months prior to the commencement date of contract for the previous year.

13. Evaluation of tenders:

Tenders will be evaluated on the basis of Net Owning Cost of the System comprising of the Capital Cost of the system (A) and taking into account the effect of rates quoted for comprehensive Annual Maintenance service contract charges (AMC) for a period of 9 years after the expiry of one year defect liability period.

Net Owning cost shall be the total of Capital Cost of the System (A) plus the NPV of comprehensive annual maintenance Service contract charges for the period of 9 years after one-year defect liability period.

NPV Factor will be calculated assuming 5% increase in contract amount every year after first year of AMC, half yearly payment and a discount rate of 8%.

Net Owning Cost of System = Capital Cost (A) + AMC Charges (B) x MF

(MF is the NPV factor for 10 years (1yr warranty + 9 year AMC) = 7.048)

14. Performance Bank Guarantee (BG):- The Bank Guarantee of 10% of the contract amount to be taken for due fulfillment of the terms and obligations of the Contract, guarantee period and service contract for the entire life cycle of the equipment shall be renewed every year before one month of expiry of validity of BG up to the end 10 years. ([Annex. IV](#))

15. Terms of payment: -

The following terms of payment, subject to statutory deductions, will apply to the contract:

- (a) 60% of the quoted rate, on pro rata basis against delivery of all the equipment and material at site
- (b) 35% of the quoted rate against erection, testing, commissioning and handing over of the system to the Bank and on submission of a Performance Bank Guarantee amounting to 10% of the contract amount, initially valid for 1 year, in a form ([Annexure-IV](#)) acceptable to the Bank as security against due fulfillment of the terms and obligations of the Contract, guarantee period and service contract for the entire life cycle of the equipment.
- (c) 5% on completion of defect liability period (i.e. one year after virtual date of completion). This may be released on submission of a Bank Guarantee equivalent to the amount (5% held) in addition to the performance Bank Guarantee.

16. Insurance: - The Contractor shall at his own expense, arrange to effect and maintain (until the virtual completion of the contract) with an approved office the following insurance policies in the joint name of employer and himself with the employer being first (Principal) and deposit such policy or policies with the employer from time during the currency of this contract.

- a. Storage, erection, testing and commissioning policy (C.A.R. policy) for the total amount of contract.
- b. Workmen compensation policy.
- c. Third party liability policy with the limits as under.
 - I. Rs.10,00,000/- per annum
 - II. Rs.2,00,000/- per occurrence

17. The payment for the work will be made by RBI, Thiruvananthapuram. The dispute arising out of this contract will also be sorted out within the jurisdiction of courts situated in Thiruvananthapuram.

18. The contractors shall upload / enter the technical details of the system along with the tender. The tenderers are requested to use the enclosed

proforma only for this purpose (and do not use their own formats and data sheets).

19. The tenderers shall give the names and postal addresses of their bankers,
20. The tenderers shall give the full name, Contact Numbers and postal addresses of clients to whom similar equipment has been supplied by them in [annexure-I](#).
21. The tenderers are requested to fill in the Check list (Section IV) on terms and conditions of the contract. They are advised to confirm whether they agree to the Bank's terms and conditions by indicating "YES" or "NO" only. If "NO" then only they shall list out the deviations proposed by them in the appropriate column
22. **Training:** The tenderer shall impart training to the Bank's Engineers/Technicians on the system before handing over of the system without any charge to the Bank.
23. **Agreement:** The successful tenderer shall execute an agreement with the Bank on stamped paper in the format in [annexure V](#) enclosed within fourteen days of receipt of letter of acceptance. However, the issue of letter of acceptance by the Bank shall be construed as a binding contract, as though such an agreement has been executed and all the terms and conditions shall apply on this contract
24. All disputes and differences of any kind whatever arising out of or in connection with the contract or the carrying out of the works (whether during the progress of the works or after completion and whether before or after the determination abandonment or breach of the contract) shall be referred to and settled by the Bank who shall state its decision in writing. Such decision may be in the form of a final certificate or otherwise. The decision of the Bank with respect to any of the excepted matters shall be final and without appeal as stated in hereof. But if either the Contractor be dissatisfied on any matter on which a decision is taken by the Bank as above, except any of the expected matter the Contractor may within 28 days after receiving notice of such decision give a written notice to the other party requiring that the matters in dispute be arbitrated upon. Such written notice shall specify the matters, which are in dispute or difference of which such written notice has been given. If both the parties agree, a single arbitrator would be appointed for the purpose. In case no agreement could be reached on the appointment of single arbitrator, both the parties will nominate one person each as an arbitrator on their behalf. The two

arbitrators nominated by the parties shall nominate one more person to act as third arbitrator.

The arbitrator or Arbitrators, as the case may be, shall have power to open up, review and revise any certificate, opinion, decision, requisition or notice, save in regard to the excepted matters, referred to in the preceding clause, and to determine all matters to dispute which shall be submitted to arbitration and of which notice shall have been given as aforesaid.

The arbitrator or Arbitrators, as the case may be, shall make his or their award within one year (or such further extended time as may be decided by him or them as the case may be with the consent of the parties) from the date of entering on the reference. In case during the arbitration proceedings the parties mutually settle or compromise their dispute or difference, on the parties filing their joint memorandum of the settlement or compromise, the Arbitrator or the Arbitrators as the case may be, shall make an award in terms of such settlement or compromise.

Upon any such reference, the decision on the cost incidental to the reference and Award respectively shall be in the discretion of the arbitrator or Arbitrators as the case may be, who may determine the amount thereof or direct the same to be taxed as between the party and party, and shall direct by whom and to whom and in what manner the same shall be borne and paid.

This submission shall be deemed to be a submission to arbitration within the meaning of the Indian Arbitration and Conciliation Act, 1996 or any statutory modification thereof.

The award of the arbitrator or Arbitrators, as the case may be, shall be final and binding on the parties. It is agreed that the Contractor shall not delay the carrying out of the works by reason of any such matter, question or dispute being referred to arbitration, but shall proceed with the works with all due diligence and shall until the decision of the Arbitrator or Arbitrators, as the case may be, is given, abide by the decision of the Bank. No award of the Arbitrator or Arbitrators, as the case may be, shall relieve the Contractor of his obligations to adhere strictly to the Bank's instructions with regard to the actual carrying out of the works. The Employer and the Contractor hereby also agree that arbitration under this Clause shall be a condition precedent to any right of action under the Contract.

25. Non-disclosure Clause:-

The Contractor shall not disclose directly or indirectly any information, materials and details of the Bank's infrastructure/systems/equipment etc., which may come to the possession or knowledge of the Contractor during the course of discharging its contractual obligations in connection with this agreement, to any third party and shall at all times hold the same in strictest confidence. The Contractor shall treat the details of the contract as private and confidential, except to the extent necessary to carry out the obligations under it or to comply with applicable laws. The Contractor shall

not publish, permit to be published, or disclose any particulars of the works in any trade or technical paper or elsewhere without the previous written consent of the Employer. The Contractor shall indemnify the Employer for any loss suffered by the Employer as a result of disclosure of any confidential information. Failure to observe the above shall be treated as breach of contract on the part of the Contractor and the Employer shall be entitled to claim damages and pursue legal remedies.

26. a) The contractor shall be solely responsible for full compliance with the provisions of “the Sexual Harassment of women at work place (Prevention, Prohibition and Redressal) Act, 2013”. In case of any complaint of sexual harassment against its employee within the premises of the Bank, the complaint will be filed before the Internal Complaints Committee constituted by the contractor/Agency and the contractor.

b) Any complaint of sexual harassment from any aggrieved employee of the Service Provider against any employee of the Bank or any employee of any other firm working in the Bank shall be taken cognizance of by the Regional Complaints Committee constituted by the Bank.

c) The contractor shall be responsible for any monetary compensation that may need to be paid in case the incident involves the employees of the contractor, for instance any monetary relief to Bank’s employee or other firm’s employee, if sexual violence by the employee of the contractor is proved.

d) The contractor shall be responsible for educating its employees about prevention of sexual harassment at work place and related issues.

e) The contractor shall provide a complete and updated list of its employees who are deployed within the Bank’s premises.

Signature of the contractor _____

Name of the firm _____

Seal of the firm _____

Safety Code

1. First aid appliances including adequate supply of sterilized dressings and cotton wool shall be provided in a readily accessible place.
2. An injured person shall be taken to a public hospital without loss of time, in cases where the injury necessitates hospitalization.
3. Suitable and strong scaffolds should be provided for workmen for all work that cannot safely be done from ground.
4. No portable single ladder shall be over 8 meters in length. The width between the side rails shall not be less than 30 cm (clear) and the distance between two adjacent rungs shall not be more than 30 cm. When a ladder is used an extra mazdoor shall be engaged for holding the ladder.
5. The excavated material shall not be placed within 1.5 meters of the edge of the trench or half of the depth of trench, whichever is more. All trenches and excavations shall be provided with necessary fencing and lighting.
6. Every opening in the floor of a building or in a working platform shall be provided with suitable means to prevent the fall of persons or materials by providing suitable fencing or railing; minimum height shall be one meter.
7. No floor, roof or other part of the structure shall be so overloaded with debris of materials as to render it unsafe.
8. Workers employed on mixing and handling material such as asphalt, cement mortar or concrete and lime mortar shall be provided with protective footwear and rubber hand-gloves.
9. Those engaged in welding works shall be provided with welder's protective eye-shields and gloves.
10. i) No paint containing lead or lead products shall be used except in the forms of paste or readymade paint.
ii) Suitable face masks shall be supplied for use by the workers when the paint is applied in the form of spray or surface having lead paint dry rubbed and scrapped.
11. Overalls shall be supplied by the Contractor to the painters and adequate facilities shall be provided to enable the working painters to wash during the period of cessation of work.
12. Hoisting machines and tackle used in the works, including their attachments, anchorage and support shall be in perfect condition.
13. The ropes used in hoisting or lowering material or a means of suspension shall be of durable quality and adequate strength and free from defects.
14. The contractor shall provide all the safety gadgets to the workers for carrying out the work as per statutory norms.
15. During the work execution necessary fire safety measures shall also be taken.

FIRE SAFETY

- i. Cutting / drilling machine and other electrically operated equipments used at site shall be plugged into correctly rated electrical outlets.
- ii. Only ISI marked 3 pin plug and other appliances and equipments shall be used.
- iii. Electrical power cables/wires used shall not have any joints and shall be properly rated.
- iv. All electrical appliances i.e. welding, drilling, cutting machine etc. shall be safely and securely earthed to prevent leakage current while in operation.
- v. Before commencing the welding work for the first time on any day, fire section shall be informed and only after the site inspection by the Fire officers/Personnel, work shall be started.
- vi. Two buckets of water and sand shall be kept in an easily accessible area on the site.
- vii. Fire extinguishers recommended and issued by fire officers shall be kept on the site.
- viii. Used paint drums shall be stored in specified store only after closing them properly.
- ix. Personal protective equipments such as safety shoes, hand gloves, welder's mask, ear plug etc. depending upon the requirement of the work shall be provided by the contractor to the workmen to prevent occupational health hazards.
- x. The safety belt shall be provided by the contractor and used by the workmen while working from height for more than 10' from Ground level.
- xi. None of the passages near lift lobby and staircases shall be used for stacking/ dumping any kind of materials/waste.
- xii. Both the staircase doors shall be normally kept closed.
- xiii. None of the fire extinguishers shall be removed/shifted from its designated location.
- xiv. Power supply shall be switched off from the mains when equipment is not in use.
- xv. Wood-shavings and saw-dust generated from the work shall be collected on daily basis , removed from site and stored at the designated place in proper manner.
- xvi. Any debris generated from the work shall be collected on daily basis, removed from site and stored at the designated place in proper manner.
- xvii. Battery operated emergency light/torches shall be provided by the contractor to the workmen while working beyond office hours.

Section III

The Conditions Hereinbefore Referred To

1. In constructing these conditions, the specification, schedule of quantities and Contract Agreement, the following words shall have the meaning herein assigned to them except where subject or context otherwise requires.

- a) "Employer" Shall mean the Reserve Bank of India and shall include its assignees and successors.
- b) In the case of company "Contractor shall mean _____ a company incorporated under _____ and having its registered office at _____ and shall include its successors and assigns.
- c) "Site" Shall mean the site of the contract works including any building and erection thereon and any other land (inclusively) as aforesaid allotted by the Employer for the Contractor's use.
- d) "This Contract" Shall mean the Article of Agreement, the special conditions, the conditions, the Appendix, the schedule of quantities and specifications attached hereto and duly signed.
- e) "Notice in writing" Shall mean a notice in written, typed or printed or written notice" characters sent (unless delivered personally otherwise proved to have been received) by registered post to the last known private or business address or registered office of the addressee and shall be deemed to have been received when in the ordinary course of post it would have been delivered.
- f) "Act of Insolvency" Shall mean any Act of insolvency as defined by the Presidency Town Insolvency Act, or the provincial insolvency Act or any Act amending such original Act.
- g) "Net Prices" If in arriving at the contract amount the Contractor shall have added to or deducted from the total of items in the Tender any sum, either as a percentage or otherwise, then net price of any item in their tender shall be the sum arrived at by adding to or deducting from the actual figures appearing in the Tender as the price of that the item a similar percentage or proportionate sum provided always that in determining the percentage or proportion of the sum so added or deducted by the Contractor the total amount of the any Prime Cost items and provisional

sums of money shall be deducted from the total amount of the tender. The expression "net rates" or "net prices" when used with reference to the contract or account shall be held to mean rates or prices so arrived at.

h) "The works" Shall mean Supply, Installation, Testing and Commissioning of Ductable Split Air Conditioners for the Executive Area at 3rd floor of the Main Office Building at Reserve Bank of India, Thiruvananthapuram.

2. **Scope of Contract**: The contractor shall carry out and complete the said work in every respect in accordance with this contract and with the directions of and to the satisfaction of the Bank's Engineer. The Bank's Engineer may in his absolute discretion and from time to time issue further drawings and/or written instructions, details, direction and explanations which are hereafter collectively referred to as "Bank's Engineer's instruction in regard to":

- a) The variations or modifications of the design, quality or works or the addition or omission or substitutions of any work.
- b) Any discrepancy in the Drawing or between the Schedule of Quantities and/or Drawing and/or specifications.
- c) The removal from the site of any materials brought thereon by the contractor and the substitution of any other material therefor.
- d) The removal and/or re-execution of any works executed by the contractor.
- e) The dismissal from the works of any persons employed thereupon.
- f) The opening up for inspections of any work covered up.
- g) The amending and making good of any defects under clause 20 hereof.

The contractor shall forthwith comply with and duly execute any work comprised in such Bank's Engineer's instructions provided always that verbal instructions, directions and explanations given to the Contractor or his representative upon the works by the Bank's Engineer shall, if involving a variation, be confirmed in writing by the Contractor within seven days, such shall be deemed to be Employer's instructions within the scope of the Contract.

The contractor shall submit a statement of variations giving quantity and rates duly supported by analysis of rates, vouchers etc. The rates on scrutiny and final acceptance by the Employer shall form a supplementary tender. The Employer shall not be liable for payment of such variations until these statements are sanctioned by him.

3. The Contract shall be executed in triplicate and the Bank's Engineer, the Employer and the Contractor shall be entitled to one executed copy each for his use. The contractor shall prepare the line diagram, system configuration drawing and Lay out plan of the site for carrying out the work. Before the issue

of the final certificate to the Contractor he shall submit to the Bank's Engineer all Drawings and Specifications.

4. The Contractor shall provide at his cost everything necessary for the proper execution of the works according to the intent and meaning of the Drawings, Schedule of Quantities and specifications taken together, whether the same may or may not be particularly shown or described therein provided that the same can reasonably be inferred therefrom, and if the Contractor finds any discrepancy in the Drawings or between the Drawings, Schedule of quantities and Specifications, he shall immediately and in writing refer the same to the Bank's Engineer, who shall decide which is to be followed.
5. **Authorities, notices and patents:** The Contractor shall conform to the provisions of any Act of the Legislature relating to the works, and to the regulations and bye-laws of any authority, and of any water, electricity supply and other companies and/or authorities with whose system the structure is proposed to be connected, and shall, before making any variations from the Drawings or Specifications that may be necessitated by so conforming, give to the architect written notice, specifying the variation proposed to be made and the reason for making it and apply for instructions thereon. In case the Contractor shall not within ten days receive such instructions he shall proceed with the work conforming to the provisions, regulations, or bye-laws in question, and any variation so necessitated shall be dealt with under clause 17 hereof.

The contractor shall bring to the attention of the Employer all notices required by the said Acts, regulations or bye-laws to be given to any authority and pay to such authority or to any public office all fees that may be properly chargeable-in respect of the works and lodge the receipts with the Employer.

The Contractor shall indemnify the Employer against all claims in respect of patent rights, and shall defend all actions arising from such claims and shall himself pay all royalties, licence fees, damages cost and charges of all and every sort that may be legally incurred in respect thereof.

6. **Setting out of work:** The contractor shall set out the works and shall be responsible for the true and perfect setting out of the same and for the correctness of the positions levels, dimensions and alignment of all parts thereof. If at any time any error in this respect shall appear during the progress of the works or within a period of one year from the completion of the works, the Contractor shall, if so required, at his own expense rectify such error to the satisfaction of the Bank's Engineer.
7. **Materials and Workmanship to conform to description:** All materials and workmanship shall so far as procurable be of the respective kinds described in the Schedule of Quantities and/or specifications and in accordance with the

contract and the Contractor shall furnish to the Employer with all invoices, accounts, receipts and other vouchers to prove that the materials comply therewith. The Contractor shall at his own cost arrange for and/or carry out any test of any materials.

8. **Contractor's superintendence and representative on the works:** The Contractor shall give all necessary personal superintendence during the execution of the works and so long thereafter as the Employer may consider necessary until the expiration of the "Defects Liability Period" stated in the Appendix hereto. The contractor shall, also during the whole time the works are in progress employ a competent representative who shall be constantly in attendance at the works while the men are to work. Any directions, explanations, instructions or notice given by the Bank's Engineer to such representative shall be held to be given to the Contractor.
9. **Dismissal of workmen:** The Contractor shall on the request of the Bank's Engineer immediately dismiss from the works any person employed thereon by him who may, in the opinion of the Bank's Engineer, be incompetent or misconduct himself and such persons shall not be again employed on the works without the permission of the Bank's Engineer.
10. **Access to works:** The Employer, shall at all reasonable times, have free access to the works and/or to the workshops, factories or other places where materials are lying or from which they are being obtained and the Contractor shall give every facility to the Employer necessary for Inspections and examination and test of the materials and workmanship. No person not authorised by the Employer except the representatives of public authorities shall be allowed on the works at any time.
11. **Bank's Engineer:** The term Bank's Engineer shall mean the person appointed and paid by the Employer to inspect the works. The Contractor shall afford the Bank's Engineer every facility and assistance for inspecting the works and materials and for checking and measuring time and materials.

The Bank's Engineer, or the Employer shall have power to give notice to the Contractor or to his representative of non-approval or any work or materials and such work shall be suspended or the use of such materials shall be discontinued. The work will from time to time be examined by the Assistant Manager (Tech.) but such examination shall not in any way exonerate the Contractor from the obligation to remedy any defects which may be found to exist at a stage of the works or after the same is completed. Subject to the limitations of this clause the Contractor shall take instructions only from the Bank's Engineer.

12. **Assignment and Subletting:** The whole of the works included in the Contract shall be executed by the Contractor and the contractor shall not directly or

indirectly transfer, assign or under-let the Contract or any part share thereof or any interest therein without the prior written consent of the Employer and not undertaking shall relieve the Contractor from the full and entire responsibility of the Contract or from active superintendence of the works during their progress.

13. No alteration, omission or variation shall vitiate this contract but in case the Bank's Engineer thinks proper at any time during the progress of the works to make any alterations in, or addition to, or omissions from the works or any alteration in the kind of quality of the materials to be used therein and shall give notice thereof in writing under his hand to the Contractor, the Contractor shall alter, add to, or omit from, as the case may be, in accordance with such notice, but the contractor shall not do any work extra to or make any alterations or additions to or omissions from the works or any deviation from any of the provisions of the Contract. Stipulations, specifications or Contract Drawings without the previous consent in writing of the Employer and the value of such extras alterations, additions or omission shall, in all cases, be determined by the Employer in accordance with the provisions of Clause 17 hereof, and the same shall be added to, or deducted from the Contract Amount, as the case may be accordingly.

14. **Schedule of Quantities**: The Schedule of quantities, unless otherwise stated shall be deemed to have been prepared in accordance with the Standard Method of Measurement.

Any error in description or in quantity or in omission of items from the schedule of quantities shall not vitiate this contract but shall be rectified and the value thereof, as ascertained under Clause 17 hereof, shall be added to, or deducted from the Contract Amount (as the case may be) provided that no rectification of errors, if any, shall be allowed in the Contractor's schedule of rates.

15. **Sufficiency of Schedule of Quantities**: The Contractor shall be deemed to have satisfied himself before tendering as to the correctness and sufficiency of his tender for the works and of the prices stated in the Schedule of Quantities and/or the schedule of rates and prices which rates and prices shall cover all his obligations under the contract, and all matters and things necessary for the proper completion of the works.

16. **Measurement of works**: The Bank's Engineer may, from time to time, intimate to the contractor that he requires the works to be measured, and the Contractor shall forthwith attend or send a qualified agent to assist Assistant Engineer in taking such measurements and calculations and to furnish all particulars or to give all assistance required by any of them.

Should the Contractor not attend or neglect or omit to send such agent then the measurement taken by the Bank's Engineer or a person approved by him shall

be taken to be correct measurement of the works. Such measurements shall be taken in accordance with the Mode of Measurements detailed in the Specifications.

The Contractor or his Agent may at the time of measurement take such notes and measurement as he may requires.

All authorised extra works, omissions and all variations made with the prior approval in writing of Employer shall be included in such measurements.

17. **Prices for extra** : The Contractor may, when authorised and shall, when directed, in writing by the Employer, add to, omit from or vary the works shown upon the drawings, or described in the specification, or included in the schedule of Quantities, but the contractor shall make no addition, omission or variation without such authorisation or direction. A verbal authority or direction by the Bank's Engineer shall, if confirmed by them in writing within seven days, be deemed to have been given in writing.

No claim for an extra shall be allowed unless it shall have been executed under provisions of clause above hereof with the concurrence of the Employer herein mentioned. Any such extra in herein referred to as authorised and shall be made in accordance with the following provisions.

- (a) (i) The net rates or prices in the original tender shall determine the valuation of the extra work where such extra work in similar character and executed under conditions as the work priced therein.
- (ii) Rates for all items, wherever possible should be derived out of the rates given in the priced Schedule of Quantities.
- (b) The net prices of the original tender shall determine the value of items omitted provided if omissions vary the conditions under which any remaining items of works are carried out, the prices for the same shall be valued under sub-clause(c) hereof.
- (c) Where the extra works are not of similar character and/or quoted under similar conditions as aforesaid or where the omissions vary the conditions under which any remaining items of works are carried out or if the amount of any omissions or additions relative the amount of the whole of the Contract works or to any part thereof shall be such that in the opinion of the Bank's engineer, the net rate or price contained in the priced Schedule of Quantities or tender or for any item of the works involves loss or expenses beyond that reasonably contemplated by the contractor or is by reason of such omission or addition rendered unreasonable or inapplicable, the Bank's Engineer shall fix such other rate or price as in the circumstances he shall think reasonable and proper, with the prior approval in writing of the Employer.
- (d) Where extra work cannot be properly measured or valued, the Contractor shall be allowed day work prices as the net rates stated in the tender or the Priced Schedule or Quantities or, if not so stated, then in

accordance with the local day work rates and wages for the district provided that in either case vouchers specifying the daily time (the workmen's names) and materials employed be delivered for verification to the Bank's Engineer at or before the end of the week following that in which the work has been executed.

The measurement and valuation in respect of the Contract shall be completed within the "period of final measurements" stated in the Appendix or if not stated then within six months of the completion of the Contract works as defined in Clause 21 hereof.

18. Unfixed materials when taken into account to be the property of the Employer

Where in any certificates (of which the Contractor has received payment) the Bank's Engineer has included the value of any unfixed materials included for and/or placed on or adjacent to the works such materials shall become the property of the Employer and they shall not be removed except for use upon the works, without the written authority of the Employer. The Contractor shall be liable for any loss of, or damage to, such materials.

19. Removal of improper work : The Employer shall, during the progress of the works, have power to order in writing from time to time the removal from the works within such reasonable time or times as may be specified in the order of any materials which in the opinion of the Bank's Engineer are not in accordance with the Specifications, the substitutions of proper materials, and the removal and proper re-execution of any work executed with materials or workmanship not in accordance with the drawings & specifications or instructions and the contractor shall forthwith carry out such order at his own cost. In case of default on the part of Contractor to carry out such order, the Employer shall have the power to employ any pay other persons to carry out the same; and all expenses consequent thereon, or incidental thereto, shall be borne by the Contractor, or may be deducted by the Employer from any moneys due, or that may become due, to the Contractor.

20. Defects after virtual completion : Any defect, shrinkage, settlement or other fault which may appear within the "Defects Liability Period" stated in the Appendix hereto, or, if none stated them within twelve months after the virtual completion of the works, arising in the opinion of the Employer from materials of workmanship not in accordance with the contract, shall upon the direction in writing of the Employer, and within such reasonable time as shall be specified therein, be amended and made good by the Contractor, at his own cost and in case of default the Employer may employ and pay other persons to amend and make good such defects, shrinkage settlements or other faults, and all damages loss and expenses consequent thereon are incidental thereto shall be made good and borne by the Employer or may be deducted by the Employer,

upon the Bank's Engineer's Certificate in writing, from any money due or that may become due to the Contractor, or the Employer may in lieu of such amending and making good by the Contractor deduct from any money due to the Contractor a sum, to be determined by the Employer equivalent to the cost of amending such work and in the event of the amount retained under clause 32 hereof being insufficient, recover the balance from the Contractor, together with any expenses the Employer may have incurred in connection therewith. Should any defective work have been done or materials supplied by any sub-contractor employed on the works who has been nominated as provided under clause 12 and 22 hereof, the contractor shall be liable to make good in the same manner as if such work or material had been done or supplied by the Contractor and been subject to the provision of this clause 2 hereof. The contractor shall remain liable under the provisions of this clause the signing of any certificate or the passing of any accounts by the Employer.

21. **Certificate of virtual completion and defects liability period:** The works shall not be considered as completed until the Bank's Engineer has certified in writing that they have been virtually completed. The defects liability period shall commence from the date of such certificates.
22. **Nominated Sub-Contractor:** All Specialists, Merchants, Tradesmen and others executing any work of supplying and fixing any goods for which the prime cost prices or provisional sums are included in the Schedule of Quantities and/or Specifications who may be nominated or selected by the Employer or hereby declared to be sub-contractors employed by the contractor and are herein referred to as nominated sub-contractors.

No nominated sub-contractors shall be employed on or in connection with the works against the Contractor shall make reasonable objection are (save where the Architect and the Contractor shall otherwise agree) who will not enter into contract providing.

- (a) That the nominated sub-contractor shall indemnify the contractor against the same obligation in respect of the sub-contract as the contractor is under in respect of this contract.
- (b) That the nominated sub-contractor shall indemnify the contractor against claims in respect of any negligence by the sub-contractors his servants or agents or any misuse by him or them or any scaffolding or other plant, the property of the Contractor or under any Workmen's Compensation Act in force.
- (c) Payment shall be made to the nominated sub-contractor within fourteen days of his receipt of the Employer's Certificate provided that before any Certificate is issued the Contractor shall upon request furnish to the Bank proof that all nominated sub-contractors accounts included in previous certificates have been duly discharged; in default whereof the Employer may pay the same upon a Certificate of the Bank and deduct

the amount thereof from any sums due to the Contractor. The exercise of this power shall not create private of contract as between Employer and Sub-Contractor.

23. **Other persons employed by Employer:** The Employer reserves the right to use premises and any portion of the site for the execution of any work not included in this Contract which it may desire to have carried out by other persons, and the Contractor shall allow all reasonable facilities for the execution of such work but shall not be required to provide any plant or material for the execution of such work except by special arrangement with the Employer. Such work shall be carried out in such manner as not to impede the progress of the works included in the Contract and the Contractor shall not be responsible for any damage or delay which may happen to or occasioned by such work.

24. **Insurance in respect of damage to person and property:** The Contractor shall be responsible for all injury to persons, animals or things, and for all structural and decorative damage to property which may arise from the operation or neglect of himself or of any nominated sub-contractor or any employee of either, whether such injury or damage arises from carelessness accident or any other clause whatever in any connected with the carrying out of this Contract. This clause shall be held to include inter alia, any damage to buildings, whether immediately adjacent or otherwise, and any damage to road, streets, foot-paths, bridges or ways as well as damage caused to the buildings and works forming the subject of this contract by frost, rain, wind or other inclemency of weather. The Contractor shall indemnify the Employer and hold it harmless in respect of all and any expenses arising from any such injury or damage to persons or property as aforesaid and also in respect of any claim made in respect of injury or damage under any acts of any legislature or otherwise and also in respect of any award or compensation or damages consequent upon such claim.

The Contractor shall reinstate all damage of every sort mentioned in this clause, so as to deliver up the whole of the Contract works complete to and perfect in every respect and so as to make good or otherwise satisfy all claims for damage to the property of third parties.

An insurance policy covering third party liability shall be taken by the contractor to cover the loss/disablement of human life (persons not belonging to the contractor). This shall also cover the risk of damages to other's materials/equipment/properties including those, if any of the banks during construction/erection/commissioning of the said contract work at site. The value of third party liability for compensation for loss of human life or full /partial disablement shall be of required statutory value for full and partial disablement and shall nevertheless cover such compensation as may be awarded by a court of law. Cover for damage to other's equipment/property shall be as approved by the bank. The sub-contractors of the contractor shall not be holders or

beneficiaries in the policy nor shall they be named in the policy. The bank shall be the principal holder of the policy along with the contractor. The bank reserves the exclusive right to assign the policy.

The Contractor shall indemnify the Employer against all claims which may be made against the Employer by any member of the public or other third party in respect of anything which may arise in respect of the works or in consequences thereof and shall at his own expenses arrange to effect and maintain, until the virtual completion of the contract, with an approved office a policy of insurance in the joint names of the Employer and the Contractor against such risks and deposit such policy or policies with the Architect from time to time during the currency of this contract. The Contractor shall also similarly indemnify the Employer, against all claims which may be made upon the Employer whether under the Workmen's Compensation Act or any other status in force during the currency of this contract or at common law in respect of any employee of the Contractor or any Sub-Contractor and shall at his own expenses effect and maintain, in the joint names of the Employer and the Contractor against such risks and deposit such policy or policies with the Architect from time to time during currency of the Contract.

The Contractor shall be responsible for any liability which may be executed from the Insurance Policies above referred to and also for all other damage to any person, animal or property arising out of the incidental to the negligent or defective carrying out of this Contract transit, storage, erection, testing & commissioning policy. He shall also indemnify the Employer in respect of any costs, charges or expenses arising out of any claim or proceedings and also in respect of any award of compensation or damages arising therefrom.

The Employer shall be entitled to deduct the amount of any damage, compensation, costs, charges and expense arising or accruing from or in respect of any such claims or damage from any or all sums due or to become due to the Contractor without prejudice to the Employer's other rights in respect thereof.

25. **Insurance:** The contractor shall, within 14 days from the date of commencement of the works, insure the works at his cost and keep them insured until the virtual completion of reworks, against loss or damage by fire with an office **in the joint names of the employer and the contractor (the name of the former being placed first in the policy) for the full amount of the contract.** Such policy shall cover the property of the "Employer" only. **The contractor shall deposit the policy and receipts for the premium with the employer within twenty one days from the commencement of the works.** In default of the contractor, insuring as provided above, the employer may so insure the works and may deduct the premium paid from any moneys due or which may become due to the Contractor without prejudice to the other rights of the Employer in respect of such default. In case it becomes necessary to suspend the works, the Contractor shall as soon as the claim under the policy is settled, or the work reinstated by the Insurance Office, should they elect to do

so, proceed with all due diligence with the completion of the works in same manner as though the fire had not occurred and in all respects under the same conditions of Contract. The Contractor in case of rebuilding or reinstatement after fire shall be entitled to such extension of time for completion as deems fit.

26. **Date of commencement and completion**: The Contractor shall be allowed admittance to the site on "Date of Commencement" stated in the Appendix hereto, or each later date as may be specified by the Employer and be shall thereupon and forthwith begin the works and shall regularly proceed with and complete the same (except such painting or other decorative work as the bank may desire to delay) or before the "Date of Completion" stated in the Appendix subject nevertheless to provisions for extension of time hereinafter contained.
27. **Damages for non-completion**: If the Contractor fails to complete the works by the date stated in the Appendix or within any extended time under Clause 26 and 20 here the Contractor shall pay the Employer the sum named in the Appendix as "Liquidated Damages" for the period during which the said works shall so remain incomplete and the Employer may deduct such damages from any money due to the Contractor.
28. **Delay and extension of time**: If in the opinion of the Employer the works be delayed(a) by force major or (b) by reason of any exceptionally inclement weather or c) by reason of proceedings taken or threatened by or dispute with adjoining or neighbouring owners or public authorities arising otherwise than through contractor's own default or (d) by the works or delays of other contractor or Tradesmen engaged or nominated by the Employer and not referred to in the schedule of quantities and/or specifications or (e) by reasons of Bank's Engineer instruction as per clause 17 hereof (f) by reason of civil commotion, local combination of workmen or strike or lockout affecting any of the building trades or (g) in consequence of the Contractor not having received in due time necessary instructions from the Bank for which he shall have specifically applied in writing or (h) from other causes which the Bank may certify as beyond the control of contractor or (I) in the event, the value of the work exceed the value of the Priced Schedule of Quantities owing to variation, the Bank may make a fair and reasonable extension of time for completion shall as soon as may be given written notice thereof to the bank but the Contractor shall nevertheless constantly use his endeavours to prevent delay and shall do all that may reasonably has required to the satisfaction of Bank to proceed with work.
29. **Contractor's failure to comply with Employers instruction**: If the Contractor after receipt of written notice from the Employer requiring compliance within 10 days fails to comply with such further drawings and/or Bank's instructions the Employer may employ and pay other persons to execute any such work

whatsoever that may be necessary to give effect thereto, and all costs incurred in connection therewith shall be recoverable from the Contractor by the Employer as a debt or may be deducted by him from any moneys due to the Contractor.

30. **Termination of Contract by the Employer:** If the Contractor being an individual or a firm commits any "act of insolvency" or shall be adjudged an insolvent or being an incorporated company shall have an order for compulsory winding up made against it or pass an effective resolution for winding up voluntarily or subject to the supervisions of the court and the Official Assignee or the Liquidator in such acts of insolvency or winding up, as the case may be, shall be unable within seven days after notice to him requiring him to do so to show the reasonable satisfaction of the Architect that he is able to carry out and fulfill the Contract and to given security therefore, if so required by the Architect.

Or if the Contractor (whether an individual, first or incorporated company shall suffer execution or other process of court attaching property to be issued against the Contractor.

Or shall suffer any payment under this contract to be attached by or on behalf of any of the creditors of the Contractors.

Or shall assign to sublet this Contract without the consent in writing of the Employer first had and obtained.

Or shall charge or encumber this Contract or any payments due or which may become due to the Contractor hereunder.

- (i) Has abandoned the Contract, or
- (ii) Has failed to commence the works, or has without any lawful excuse under these conditions suspended the progresses of the works for fourteen days after receiving from the Bank notice to proceed or
- (iii) Has failed to proceed with the work with such due diligence and failed to make such due progress as would enable the works to be completed within the time agreed upon, or
- (iv) Has failed to remove materials from the site or to pull down and replace work for seven days receiving from the Bank written notice that the said materials or work were condemned and rejected by the Bank's Engineer under these conditions' or
- (v) Has neglected or failed persistently to observe and perform all of any of the acts, matter or things by the Contract to be observed and performed by the Contractor for seven days after written notice shall have been given to the Contractor requiring the Contractor to observe or perform the same.

Then and in any of the said cases the Employer may, notwithstanding any previous waiver, after giving seven days notice in writing to the Contractor, determine the Contract, the whole of which shall continue in force as fully as if the Contract has not been so determined, and so if the works subsequently execute had been executed by or on behalf of the Contractor. And further, the Employer by his agents or servants may enter upon and taken possession of the works and all plant, tools scaffoldings, sheds, machinery, steam and other power utensils and materials lying upon the premises or the adjoining lands or roads, and use the same as his own property or may employ the same by means of his own servants and workmen in carrying on and completing the work or by employing any other Contractor or other person or persons to complete the works, and the Contractor shall not in any way interrupt or do any act matter or thing to prevent or hinder such other contractor or other person or persons employed for completing and finishing or using the materials and plant for the works. When the works shall be completed or as soon thereafter as convenient the Bank shall give a notice in writing to the Contractor to remove his surplus materials and plant, and should the Contractor fail to do so within a period of fourteen days after receipt thereof by him, the Employer may sell the same by public auction, and give credit to the Contractor for the net amount realised. The employer shall thereafter ascertain and certify in writing under his hand what of the said plant and materials so taken possessions or by the Employer and the expenses or loss which the Employer shall have been put to in procuring the works to be completed and the amount. If any, owing the Contractor and the amount which shall be so certified shall thereupon be paid by the Employer to the Contractor or by the Contractor to the Employer, as the case may be, and the Certificate of the Bank shall be final and conclusive between the parties.

31. **Termination of Contract by Contractor:** If this payment of the amount payable by the Employer under Certificate of the Bank's Engineer shall be in arrears and unpaid for thirty days after notice in writing requiring payment of the amount as aforesaid shall have been given by the Contractor to the Employer, or if the Employer interferes with or obstructs the issue of any such Certificate, or if the Employer shall repudiate the Contract, or if the works be stopped for three months under the order of the Architect or the Employer or by any injunction or other order of any court of to Law, then and in any of the said cases the Contractor shall be in liberty to determine the Contract by notice in writing to the Employer, and he shall be entitled to recover from the Employer, payment for all works executed and for any loss he may sustain upon any plant or materials supplied or purchased or prepared for the purpose or the Contract.

In arriving at the amount of such payment the net rates contained in the Contractor's original Tender shall be followed or where the same may not apply valuation shall be made in accordance with Clause 17 hereof.

32. **Certificates and Payments:** The Contractor shall be paid by the Employer from time to time by installments under interim Certificate to be issued by the Bank's Engineer on account of the works executed work to the approximate

value named in the Appendix as 'Value of work for Interim Certificate' has been executed in accordance with this Contract, subject, however, to a retention of the percentage of such value named in the Appendix as "Total Retention Money" after which time the installments shall be up to the full value of the work subsequently so executed and fixed in the building. And when the works have been virtually completed, the Contractor shall be paid by the Employer in accordance with the Certificate to be issued by the Bank's Engineers the sum of money named in the Appendix as "installment after Virtual Completion" being a part of the said Total Retention Money. And the Contractor shall be entitled to the payment of the Final Balance in accordance with the final Certificate at the expiration of the period referred to as 'the Defects liability Period' in the Appendix hereto from the date of virtual completion or as soon as after expiration of such period as the works shall have been finally completed and all defects made good according to the true intent and meaning hereof whichever shall last happen provided always or at or after their completion shall not relieve the Contractor from his liability under clause 21 and 36 nor relieve the Contractor of his inability in cases of fraud, dishonesty, or fraudulent concealment relating to the works or materials or to any matter dealt with in the Certificate and in case of the all defects and insufficiencies in the works or materials which a reasonable examination would not have disclosed.

The Employer shall have power to withhold any Certificate if the works or any parts thereof are not being carried out to his satisfaction.

33. **Delayed Payment:** Any amounts payable by the Employer to the Contractor shall, if not paid within the 'period of honouring Certificates' names in the Appendix carry interest at the rate named in the Appendix as the "Rate of interest for delayed payment" from the date upon which sum ought to have been paid by the Employer until the payment.
34. The decision, opinion, direction Certificate (except for payment) with respect to all or any of the matters under Clauses 2(a,b), 4,5, 14, 20 (a,b,c,d and f) hereof (which matters are herein referred to as the excepted matters) shall be final and conclusive and binding on the parties hereto and shall be without appeal. Any other decision, opinion, direction, shall be subject to the right of Arbitration and review under the Clause 35 hereof in the same way in all respects (including the provisions as to opening the reference).
35. **Settlement of disputes by Arbitration:** All disputes and differences of any kind whatever arising out of or in connection with the contract or the carrying out of the works (whether during the progress of the works or after the completion and whether before or after the determination abandonment or breach of the contract) shall be referred to and settled by the Bank who shall state its decision in writing. Such decision may be in the form of a final

certificate or otherwise. The decision of the Bank with respect to any of the excepted matters shall be final and without appeal as stated in Clause 33 hereof. But if either the Contractor be dissatisfied on any matter on which a decision is taken by the Bank as above, except any of the expected matter the Contractor may within 28 days after receiving notice of such decision give a written notice to the other party requiring that the matters in dispute be arbitrated upon. Such written notice shall specify the matters, which are in dispute or difference of which such written notice has been given. If both the parties agree, a single arbitrator would be appointed for the purpose. In case no agreement could be reached on the appointment of single arbitrator, both the parties will nominate one person each as an arbitrator on their behalf. The two arbitrators nominated by the parties shall nominate one more person to act as third arbitrator or umpire.

The arbitrator or Arbitrators, as the case may be, shall have power to open up, review and revise any certificate, opinion, decision, requisition or notice, save in regard to the excepted matters, referred to in the preceding clause, and to determine all matters to dispute which shall be submitted to arbitration and of which notice shall have been given as aforesaid.

The arbitrator or Arbitrators, as the case may be, shall make his or their award within one year (or such further extended time as may be decided by him or them as the case may be with the consent of the parties) from the date of entering on the reference. In case during the arbitration proceedings the parties mutually settle or compromise their dispute or difference, on the parties filing their joint memorandum of the settlement or compromise, the Arbitrator or the Arbitrators as the case may be, shall make an award in terms of such settlement or compromise.

Upon any such reference, the decision on the cost incidental to the reference and Award respectively shall be in the discretion of the arbitrator or Arbitrators as the case may be, who may determine the amount thereof or direct the same to be taxed as between the party and party, and shall direct by whom and to whom and in what manner the same shall be borne and paid.

This submission shall be deemed to be a submission to arbitration within the meaning of the Indian Arbitration and Conciliation Act, 1996 or any statutory modification thereof.

The award of the arbitrator or Arbitrators, as the case may be, shall be final and binding on the parties. It is agreed that the Contractor shall not delay the carrying out of the works by reason of any such matter, question or dispute being referred to arbitration, but shall proceed with the works with all due diligence and shall until the decision of the Arbitrator or Arbitrators, as the case may be, is given, abide by the decision of the Bank. No award of the Arbitrator or Arbitrators, as the case may be, shall relieve the Contractor of his obligations to adhere strictly to the Bank's instructions with regard to the actual carrying out of the works. The Employer and the Contractor hereby also agree that

arbitration under this Clause shall be a condition precedent to any right of action under the Contract.

Right of technical scrutiny of final bill

36. The Employer shall have a right to cause a technical examination of the works and the final bill of the contractor including all supporting vouchers, abstracts, etc. to be made at the time of payment of the final bill. If as a result of this examination of otherwise any sum is found to have been overpaid or over certified it shall be lawful for the employer to recover the sum.

Employer entitled to cover compensation paid to workman

37. If, for any reason, the Employer is obliged, by virtue of the provisions of the Workmen's Compensation Act, 1923, or any statutory modification or re-enactment thereof to pay compensation to a workman employed by the Contractor in execution of the works, the Employer shall be entitled to recover from the Contractor the amount of compensation so paid, and without prejudice to the rights of the Employer under the said Act. The Employer shall be at liberty to recover such amount or any part thereof by deducting it from the security deposit or from any sum due by the Employer shall not be bound to contest any claim made against it under the said Act, except on the written request of the Contractor and upon his giving to the Employer full security to the satisfaction of the Employer for all costs for which the Employer might become liable in consequence of contesting such claim.

Abandonment of works

38. If at any time after the acceptance of the tender, the Employer shall for any reasons whatsoever not requires the whole or any part of the works to be carried out, the Bank shall give notice in writing to the Contractor who shall have no claim to any payment of compensation or other-wise whatsoever on account of any profit or advantage which he might have derived from the execution of the whole works.

Return of surplus materials

39. Notwithstanding anything to the contrary contained in any or all the clauses of this Contract, where any material for the execution of the Contract is procured with the assistance of the Employer by purchase made under orders or permits or licenses issued by Government, the Contractor shall hold the said materials economically and solely for the purpose of the Contract and not dispose of them without the prior written permission of the Employer and return it to the Employer, if required by the Employer, at the price to be determined by the Bank having due regard to the conditions of the materials,

the price to be determined not be exceed the purchase price thereof inclusive of octroi and other such levies paid by the Contractor in respect thereof, in the even of breach of the aforesaid condition, the Contractor shall in addition to being liable to action for contravention of the terms of licenses or permit and/or criminal breach of trust, be liable to Employer for all moneys, advantages or profits resulting or which in the usual course would have resulted to his by reason of such breach.

Right of employer to terminate contract in the event of death of Contractor or individual

40. Without prejudice to any of the rights or remedies under this Contract, if the Contractor, being an individual, dies, the Employer shall have the option of terminating the contract without incurring any liability for such termination.

43. The clauses 41&42 will be part of agreement during AMC also.

I/We have understood all the above-mentioned conditions and they are acceptable to me/us.

Place:

Signature of Tenderer

Date :

Name

Designation

Name & seal of the firm

SPECIAL CONDITIONS

1. The workmen will not be allowed to stay within the premises.
2. The electric power required for the work can also be similarly drawn from the supply available at site free of cost.
3. The intending Tenderer can obtain any clarifications regarding the Tender drawings, specifications etc. from the department on any Bank's working day.
4. The debris/ dust or any wastage generated out of the above work shall be cleaned as required and as instructed by the Bank's Engineer.
5. The contractor shall depute a qualified supervisor during execution of the work. No work shall be carried out at site in unsupervised manner.
6. The Tenderer shall use only approved brands of materials. The Bank will be at liberty to choose any brand of materials from the names given therein in absence of any such choice indicated by the tenderer.
7. Rates quoted by the Tenderers in the "Rate Column" should be inclusive of GST.

Place:
Date:
Phone No:

Signature of the Tenderer
Name & address

APPENDIX HEREIN REFERRED

1.	Defects liability Period	12 months from the date of issue of virtual completion certificate.
2.	Period of final measurement	1 month from the date of final commissioning.
3.	Date of commencement	10 th day from the date of award letter.
4.	Period of completion	12 weeks from the 10 th day of work order
5.	Liquidated Damages for delay in completing the work.	¼% of the contract amount per week subject to a maximum of 10% of the contract amount.
6.	Value of work for Interim Certificate for running bill	As per the payment terms and conditions
7.	Installment after virtual completion	100% of Earnest money deposit shall be released
8.	Period of honoring interim certificate	1 month
9.	Interest for delayed payment	3 percent per annum

Signature of Contractor

Section IV

Supply, installation, testing and commissioning of X-Ray Baggage Scanner System for Bank's Office Building at RBI, Thiruvananthapuram

Scope of work and Technical Specifications

Technical Specification

1. X-Ray Baggage Scanner System having

- (i) Tunnel size (approximate): 600 mm (W), 400 mm (H) 1200(L)
with $\pm 10\%$ variation for screening of hand baggage/Briefcases.
- (ii) Resolution: 42 SWG (38 AWG)
- (iii) Penetration thickness: Minimum 28 mm. guaranteed
- (iv) Conveyor speed (approx.): 0.2 m/sec.
- (v) Carrying capacity (min): 150kg. Distributed load.
- (vi) Power supply: Suitable to operate on 220Volts $\pm 10\%$ AC, 50 Hz $\pm 3\%$

2. Image processing - The system shall consist of

- i. Digital Video Memory: minimum 32 MB
- ii. Grey levels: Around 4096 stored.
- iii. Video Display: 1280 X 1024, 24-bit, low radiation, ergonomic, flicker free 21" colour LCD/ LED Monitor with a lockable or inbuilt box for housing the monitor with standard material of high grade quality.
- iv. Variable Zoom: X 8 up to 64 X step & step less Zoom

3. Computer Specification (minimum)

Monitor:	1No 21-inch monitor
Operating System:	Window 8 or above
Processor:	Latest processor (Intel i 5) as per system Requirement
System Memory:	3 GB (MIN) RAM
Display:	24 Bit/32 Bit True Colour
Hard Disk:	minimum 1 TB
DVD writer:	52X (I no.)
USB port:	USB 3.0 support (4 nos.)
Mouse:	as per requirement
Key Board:	as per requirement
Printer:	System must be Compatible for connecting a printer

- 4. The system shall also have multi energy system with four colour palette for material discrimination high, low, medium penetration.

5. Edge enhancement

- i. Inverse video
 - ii. Black and white image
 - iii. Pseudo colour
 - iv. Bi-direction/scanning
 - v. NARC Scan
 - vi. Automatic image archiving
6. Enhanced performance X-Ray - The feature assists operators in identifying substances having specific characteristics of explosive or narcotics, enabling rapid and consistent detection capability, gold or currency may also be identified using EPX
7. Radiation Safety: Should comply with all applicable international/National radiation & health Regulations (**Certificate to be submitted for the compliance of the same from Atomic Energy Regulator Board. Any other regulatory approvals required for safeties should also be enclosed with Part I of tender**).

Product should be maximum radiation emission leakage of less 1microSv/hr from all external surfaces of the cabinet X – ray system.

- 8 The system will have certification from CE/ UL
- 9 Threat Image Projection (TIP)
- 10 Standard test kit arranged in a suitable brief case.

General:

TIP Software facility shall be incorporated in the offered X-ray machines to assist supervisors in testing the operator alertness and training X-ray screeners to improve their ability in identifying specific threat object. The system will create a threat object and the same will be superimposed on monitor screen while a bag is being screened. To acknowledge that the operator has seen the false object, operator must press the control Panel key that will cause the computer generated threat object to disappear from x-rayed bag image on the VDU screen. Each operator's action shall be recorded in the hard disc of the computer for the auditing purpose by the supervisor or other authorised person.

Design of the system

a) TIP software should be compatible with other X-Ray technologies such as automatic reject unit, Dual X-ray screen technologies, automatic threat recognition system, etc. All x-ray image functions must be available at the same time along with the TIP.

b) Image Library

- i) The TIP facility should have an image library containing at least 100 explosive devices, 100 knives and 100 fire arms in various sizes, shapes, locations & orientations. However, the system shall have facility to expand the library to incorporate additional images by user without assistance of the manufacturer.
- ii) The image library should contain images of threats at different orientations – both plane and end-on orientation should be used. Although these will be assigned different file names and references, it must be possible to cross-reference these as the same threat. All threat Image Projection images must be realistic, representative and non-distinguishable from real threat items.

c) Time Interval

- i) Programming facility shall be available to project threat images in different intervals. The time period for threat image as well as image mix in % age shall be user

programmable e.g. software shall select 40% images of explosive devices, 35% of fire arms & 25% of knives or Random, etc.

- ii) Once the screener has responded to identify the computer generated threat image, it should remain on the screen for a pre-defined user programmable time for analyses. The image should be highlighted, upon identification, and feedback message shall be visible to the screener.

d) System Administration

- i) The threat image projection facility shall have details of user data-base such as name of the office, Screener name, designation, user ID number, level of access such as Screener, Administrator, Maintenance & Password, etc.
- ii) Access to start-up Menu should be restricted only to the authorised individuals. A log-in procedure by means of 'Password' or 'Security key' could achieve restricted access to each of the comment. The log-in procedure should not take longer than 20 seconds. The system should have facility to bypass the TIP facility, if programmed so by the System Administrator. It is to be ensured that the TIP software shall not be hindrance to normal functioning of X-ray Machines.
- iii) When the operator logs-in or logs-out, message should be displayed on XBIS VDU Screen to confirm that he / she has been correctly logged-in or logged out.

e) Feed Back / Report

- i) The Threat Image Projection should be capable of giving feed back "HIT, MISS or FALSE ALARM" message. No message will be presented if a screener correctly passed a clear bag.
- ii) A "HIT" message to be presented when a screener has correctly identified a Threat Image Projection image. A "MISS" message shall be presented when screener fails to identify the Threat Image Projection Image. A "False Alarm" message shall be given when screener incorrectly indicate that Threat Image Projection image is present when in fact no Threat Image Projection is present. The feed back should clearly indicate in a screen that a TIP object has been correctly identified / a TIP object has been missed / or no TIP object was present. The information should be recorded in the database.
- iii) Different colour coding shall be used for feedback to the Screener. It is recommended that Colour Code "Red for MISS", Green for "HIT" and Yellow for "False Alarm or Interrupt" be used.
- iv) The system shall automatically prepare the daily log of events for each shift and for each Screener performance. TIP log shall include particulars of location, XBIS, Name of Screener, Time & date of threat image, whether threat image was successfully identified or missed, etc.
- v) The report on Threat Image Projection system may have date and time (From-To) as per requirement, Screener particulars, and decision / out come i.e. MISS, HIT or False alarm in %age as well in absolute numbers, number of bas screened, categories such as explosive devices knife or weapon, etc.
- vi) As a standard practice, daily / weekly / monthly report shall be retrieved. Report shall be for any given time and period, as per command.
- vii) All data should be stored on the system for a minimum of two months after it has been downloaded. No individual, regardless of access rights to the Threat Image Projection components would delete or amend any of Threat Image Projection data or time i.e. Threat Image Projection data on the actual X-ray machine will be read only file.

Note:-

The specifications indicated above are the minimum acceptable to the Bank. Tenderers are free to quote for equipments with higher and advanced specifications, if any of the technical specifications is out of the range of equipments manufactured by them.

TESTS TO BE CARRIED OUT

I. SINGLE WIRE RESOLUTION (TEST NO.1)

A set of uninsulated tinned copper wire of size 25 SWG, 30, 35, 38, 40 and 42 SWG are placed on Perspex sheet. The wires are laid out in "S" shaped curves. The wires are placed behind varying thickness of aluminium. The requirement is to display 42 SWG wire is not covered by step wedge. A tick will indicate the visibility of appropriate wire. Metallic marker should be provided using high density material, so that SWG numbers in the VDU are clearly visible.

II. USEFUL PENETRATION (TEST NO.2)

Definite what level of details can be seen behind a thickness of known material. The requirement of this test is that the 24 SWG wire is seen under second step wedge (5/16"). (Note : This is equivalent to FAA, USA and DOT UK requirement). Tick on log sheet will indicate what wires are visible.

III. MULTI ENERGY X-RAY (TEST No.3)

With multi-energy X-Ray it should be possible to distinguish between materials of different average atomic number. The use of sugar and salt samples encapsulated on the test piece and various materials used in the construction of CTP will check the material discrimination facility. A tick will indicate that the sugar/salt samples are shown in different colour.

IV. SIMPLE PENETRATION (TEST No.4)

This test defines what thickness of steel the machine should be able to penetrate. The steel step wedge on the CTP has steps of 2 mm. from 16 mm. to 30 mm. with a lead strip to check that the machine is above or below the requirement. The requirement is that the lead is visible beneath 28 mm. steel. A tick in log sheet will indicate where a difference between the lead strip and the step wedge is visible.

V. SPATIAL RESOLUTION (TEST NO.5)

This test defines the ability of the system to distinguish and display objects which are close together. The CTP has 16 copper gratings at right angle to each other. The requirement is that a vertical and horizontal grating can be seen. A tick in the log sheet will indicate that gaps in the gratings are visible.

Section-V

Details of Technical parameters

(To be furnished by tenderers)

Sr. No.	Particulars	Banks Specification	To be furnished by the tenderers	Remarks
1.	Make and Model No.			
2.	X-Ray Generator			
	i. Cooling	Sealed oil bath		
	ii. Anode Voltage	160kV rated 140kV operating		
	iii. Beam divergence	60 degree vertically upward		
	iv. Direction of X-Rays			
	v. Duty Cycle	100%		
	vi. Penetration (in mm. steel)	28 mm guranteed		
3.	Image processing			
	i. Sensor			
	ii. Video Memory	32 MB		
	iii. Grey Levels	Around 5000		
	iv. Display	1280 X 1024, 24 bit, low radiation, Egronomic, flicker free SVGA 21" colour flat LCD/LED Monitor with 0.25 mm. dot pitch		
4.	General			
	i. Conveyor Speed	Around 0.2 m/		
	ii. Resolution	42 SWG (38 AWG)		
	iii. Carrying capacity	Not less than 125 kg. Distributed load		
	iv. Power supply	Suitable to operate on 220Volts+/- 18% AC, 50Hz +/- 4%		
5.	Display monitor			
	i. No. of B/W monitor			
	ii. No. of colour monitor			
	iii. Make, size, resolution			
6.	Tunnel size			
	(a) Width	600 mm ±10%		
	(b) Height	400 mm ±10%		
	(c) Length	1200 mm ±10%		
7.	Loading platform			
	Width		Length	
8.	Delivery platform			
	Width		Length	
9.	Overall dimensions			
	Width		Length	
10.	Software capabilities			
	Zoom			

11	Computer details				
	Make and Model No.				
	(i)	Processor	Intel i 5 or latest		
	(ii)	System Memory			
	(iii)	Display	1280 X 1024, 24/32 bit, low radiation, Egronomic, flicker free SVGA 21" colour flat LCD /LED Monitor with 0.25 mm. dot pitch		
	(iv)	Hard Disk capacity	1 TB		
	(v)	CD Drive	Not less than 52 X		
	(vi)	VGA Card			
	(vii)	RAM	Not less than 3 GB		
	(viii)	Printer	System Compatible for Printer		

Section-VI

Check List

PART I

Supply, installation, testing and commissioning of
X-Ray Baggage Scanner System for Bank's
Office Building at Thiruvananthapuram

COMMERCIAL CONDITIONS

Sr. No.	Description	Bank's Terms	Whether acceptable to the tenderer or not (please indicate YES or NO)
1.	Validity	9 months	
2.	EMD	Rs. 31,000/- by DD/BG/NEFT	
3.	Terms of payment	(a) 60% of the quoted supply rate pro-rata against delivery of materials after checking at site.	
		(b) 35% of the quoted on completion of testing, commissioning and handing over the system subjected to submission of BG as per para – 14 of General instructions and special conditions.	
4.	a. Prices	a. Firm, inclusive of all taxes, duties, insurance, levies during the contract period.	-
5.	Guarantee period	12 months from date of handing over.	
6.	Service after sales	Free of cost during the guarantee period.	
7.	Completion period	12 weeks from 10 th day of letter of award of work.	
8.	Liquidated damages	0.25% of the contract amount per week of delay subject to maximum of 10% of the contract value.	
9.	(a) Time allowed for rectification	Maximum 24 Hours as per clause 12. (d) of General instructions and special conditions.	
	(b) Penalty for delay in providing service	Rs. 500/- per day, if system defect not rectified within 24 hours on receipt of complaint as per clause 12. (d) of General instructions and special conditions.	
10.	Service facility	Shall be available at Thiruvananthapuram/ Kochi and shall be approachable on telephone/ e-mail / mobile.	
11.	Committed period for system maintenance	At least 10 years from the date of handing over of the installation.	
12.	Certificate to be submitted from concerned authorities to comply meeting applicable International/National radiation & health regulation.		

Part II should not contain any terms and conditions but only priced bill of quantity. Terms and conditions, if any, incorporated in Part II, will not valid or considered.

Signature of Tenderer

Place:

Date:

Note:-

- (i) In case of tenderer accepting all the terms and conditions of the Bank, there is no need for enclosing any terms and conditions of their own.
- (ii) In case of tenderers proposing any deviation, they are advised to indicate the deviation only quoting relevant tender clause.

Schedule of Technical Deviations if any

We confirm that all technical terms and conditions and specifications of the Bank except for deviations listed below are acceptable to us.

Sr. No.	Section No.	Clause No.	Deviation proposed
1	2	3	4

Seal of company

Signature

Name
Designation

Date

List of Clients

**Details of similar qualifying works executed
during the last 3 years**

Sr. No.	Name and address of the firm	No. of units supplied	Value of the work	Whether works completed in time or not (give date of start & and date of completion)	Completion period as per work order	Fax /phone number &contact person of the firm

(Attach sheet if required)

Date

Signature of
Tenderer:

CLIENT'S CERTIFICATE REG. PERFORMANCE OF CONTRACTOR

Name & address of the Client

Details of Works executed by M/s

- | | | |
|----|---|--|
| 1 | Name of work with brief particulars | |
| 2 | Agreement No. and date | |
| 3 | Agreement amount | |
| 4 | Date of commencement of work | |
| 5 | Stipulated date of completion | |
| 6 | Actual date of completion | |
| 7 | Details of compensation levied for delay (indicate amount) if any | |
| 8 | Gross amount of the work completed and paid | |
| 9 | Name and address of the authority under whom works executed | |
| 10 | Whether the contractor employed qualified Engineer/Overseer during execution of work? | |
| 11 | i) Quality of work (indicate grading) | Outstanding/Very Good/Good/Satisfactory/poor |
| | ii) Amt. of work paid on reduced rates, if any. | |
| 12 | i) Did the contractor go for arbitration? | |
| | ii) If yes, total amount of claim | |
| | iii) Total amount awarded | |
| 13 | Comments on the capabilities of the contractor. | |
| | a) Technical proficiency | Outstanding/Very Good/Good/Satisfactory/poor |
| | b) Financial soundness | Outstanding/Very Good/Good/Satisfactory/poor |
| | c) Mobilization of adequate T&P | Outstanding/Very Good/Good/Satisfactory/poor |
| | d) Mobilization of manpower | Outstanding/Very Good/Good/Satisfactory/poor |
| | e) General behavior | Outstanding/Very Good/Good/Satisfactory/poor |

Note: **All columns should be filled in properly countersigned**"

Reporting Officer* with Office seal

*Officer of the rank of executive engineer/Superintending Engineer or equivalent

Proforma for Bank Guarantee In Lieu Of Earnest Money Deposit

(To be submitted on non-judicial stamp paper of appropriate value purchased in the name of the issuing Bank).

This deed of guarantee made this _____ day of _____ two thousand _____ between _____ (Name of Banker) having its registered office at _____ (place) and one of its local offices at _____ (hereinafter referred to as the Surety), and Reserve Bank of India, constituted by the Reserve Bank of India Act, 1934, having its Central Office at Central Office Building, Shahid Bhagat Singh Road, Mumbai-400 001 INDIA (hereinafter referred to as the Bank).

WHEREAS _____ (Tenderer's name hereinafter referred to as 'Tenderer') a Company registered under _____ and having its registered office at _____ is bound to deposit with the Bank by way of earnest money INR _____ (INR _____ only) in connection with its Tender for Supply, installation, testing and commissioning of X-Ray Baggage Scanner System for Bank's Office Building at RBI, Thiruvananthapuram and the specifications and terms and conditions enclosed therein.

WHEREAS the tenderer as per clause No. _____ Section IV of Instructions to tenderers and special conditions has agreed to furnish a Bank Guarantee valid up to _____ instead of deposit of earnest money in cash.

NOW THIS WITNESSETH:

1 That the Surety in consideration of the above Tender made by the Tenderer to the Bank hereby undertakes to guarantee payment on demand without demur to the Bank the said amount of INR _____ (INR _____ only) within one week from the date of receipt of the demand from the Bank on presentation of this deed of guarantee, which the Tenderer is bound to deposit with the Bank by way of earnest money in connection with his Tender.

2 This guarantee shall not be affected by any infirmity or irregularity on the part of the Tenderer or by the dissolution or any change in the constitution of the Bank, Tenderer or the Surety.

3 The Bank shall be eligible to make any claim under this guarantee if the Tenderer after submitting his Tender, rescinds from his offer or modifies the terms and conditions thereof in a manner not acceptable to the Bank or expresses his unwillingness to accept the order after the Bank has decided to place order with the Tenderer for the **Supply, Installation, Testing and Commissioning of Ductable Split Air Conditioners for the Executive Area at 3rd floor of the Main Office Building at Reserve Bank of India, Thiruvananthapuram**. The Banks' decision in this regard shall be final and binding.

4 The Surety shall not and cannot revoke this guarantee during its currency except with previous consent of the Bank in writing.

5 Notwithstanding anything contained in the foregoing, the Surety's liability under the guarantee is restricted to INR _____ (INR _____ only).

6 This guarantee shall remain in force and effective up to _____ and shall expire and become ineffective on intimation thereof being given to the Surety by the Bank in which event this guarantee shall stand discharged.

7 The Surety will make the payment pursuant to the demand notice issued by the Bank, notwithstanding any dispute that may exist or arise between the Tenderer and the Bank or any other person.

8 Any forbearance, act or omission on the part of the Bank in enforcing any of the conditions of the said tender or showing of any indulgence by the Bank to the tenderer shall not discharge the Surety in any way and the obligations of the Surety under this guarantee shall be discharged only on the intimation thereof being given to the Surety by the Bank.

9 Notwithstanding anything contained hereinabove, unless a demand or claim under this guarantee is made on the Surety in writing on or before _____, the Surety shall be discharged from all liabilities under guarantee thereafter.

10 The Surety has the power to issue this guarantee under its Memorandum and Articles of Association and the person who is hereby executing this deed has the necessary powers to do so under the Power of Attorney granted to him by the Surety.

SIGNED AND DELIVERED For and on behalf of or and on behalf of above named Bank. (Banker's Name and Seal)

**Bank Manager
(Banker's seal)**

**Proforma of Bank Guarantee for Retention money /
Performance Bank Guarantee**

(To be submitted on Non-judicial stamp paper of appropriate value purchased in the name of the issuing bank)

No. _____ Date _____

To:
The Regional Director
Reserve Bank of India
Bakery Junction
Thiruvananthapuram- 695033

Dear Sir

In consideration of your agreeing to accept the security deposit of INR ____ (INR ____

only) furnish able to you by Messrs _____ (hereinafter referred to as "the Contractor") in terms of their contract with you for Supply, installation, testing and commissioning of X-Ray Baggage Scanner System for Bank's Office Building at RBI, Thiruvananthapuram as per their Tender dated _____ and your Special Conditions of Contract and other tender documents relating thereto subject to the conditions and alterations mutually agreed upon the set forth or referred to in your Contract dated _____ in the form of guarantee from us in the manner hereinafter contained, we _____ (Name of the Bank) do hereby covenant and agree with you as follows :

1. We undertake to indemnify you and keep you indemnified from time to time to the extent of INR ____ INR(____ only) against any loss or damage caused to or suffered by or that may be caused to or suffered by you by reason of any breach or breaches on the part of the Contractor of any of the terms and conditions contained in the said Contract and in the event of the Contractor making any default or default in carrying out any of the work under the said Contract or otherwise in the observance and performance of any of the terms and conditions relating thereto in accordance with the true intent and meaning thereof, we shall forthwith on demand pay to you such sum or sums not exceeding in total the said sum of INR _____ (INR _____ only) as may be claimed by you as your losses and/or damages, costs, charges or expenses by reason of such default on the part of the Contractor.
2. Notwithstanding anything to the contrary, your decision as to whether the Contractor has made any such default or defaults and the amount or amounts to which you are entitled by reasons thereof will be binding on us and we shall not be entitled to ask you to establish your claim or claims under this Guarantee but will pay the same forthwith on your demand without any protest or demur.

3. This guarantee shall continue and hold good until it is released by you on the application by the Contractor after expiry of the relative guarantee period of the said Contract and after the contractor had discharged all his obligations under the said Contract and produced a certificate of due completion of the work under the said contract and submitted a "No Demand Certificate", provided always that this guarantee shall in no event remain in force after the day of _____ without prejudice to your claim or claims arisen and demanded from or otherwise notified to us in writing before the expiry of six months from the said date which will be enforceable against us notwithstanding that the same is or are enforced after the said date.
4. Should it be necessary to extend this guarantee on account of any reason whatsoever, we undertake to extend the period of this Guarantee on your request till such time as may be required by you. Your decision in this respect shall be final and binding on us.
5. You will have the fullest liberty without effecting this guarantee from time to time to vary any of the terms and conditions of the said contract or extend the time of performance of the Contractor or to postpone for any time or from time to time any of your rights or powers against the Contractor and either to enforce or forbear to enforce any of the terms and conditions of the said Contract and we shall not be released from our liability under this guarantee by the exercise of your liberty with reference to matters aforesaid or by reason of any time being given to the Contractor or any other forbearance, act or omission on your part or any indulgence by you to the Contractor or by any variation or modification of the said contract or any other act, matter or things whatsoever, which under the law relating to sureties would but for the provisions hereof have the effect of so releasing us from our liability hereunder provided always that nothing herein contained will enlarge our liability hereunder beyond the limit of INR _____ (INR _____ only) as aforesaid.
6. This guarantee shall not in any way be affected by your taking or varying or giving up any securities from the Contractor or any other person, firm or company on its behalf or by the winding up, dissolution, insolvency or death as the case may be, of the Contractor.
7. In order to give full effect to the guarantee herein contained you shall be entitled to act as if we were your principal debtors in respect of all your claims against the Contractor hereby guaranteed by us as aforesaid and we hereby expressly waive all our rights of surety-ship and other rights, if any, which are in any way inconsistent with any of the provisions of this guarantee.
8. Subject to the maximum limit of our liability as aforesaid, this guarantee will cover all your claim or claims against the contractor from time to time arising out of or in relation to the said contract and in respect of which your claim in writing is lodged on us before expiry of six months from the date of expiry of this guarantee.
9. Any notice by way of demand or otherwise hereunder may be sent by special courier, telex, fax or registered post to our local address as aforesaid and if sent by post, it shall be deemed to have been given when the same has been posted.
10. This guarantee and the powers and provisions herein contained are in

addition to and not by way of limitation of or substitution for any other guarantee or guarantees heretofore given to you by us (whether jointly with others or alone) and now existing un cancelled and that this guarantee is not intended to and shall not revoke or limit such guarantee or guarantees.

11. This guarantee shall not be affected by any change in the constitution of the contractor or us nor shall it be affected by any change in your constitution or by any amalgamation or absorption thereof or therewith but will ensure to the benefit of and be available to and enforceable by the absorbing or amalgamated company or concern.
12. Any forbearance, act or omission on the part of the Bank in enforcing any of the conditions of the said tender or showing of any indulgence by the Bank to the Tenderer shall not discharge the Surety in any way and the obligations of the Surety under this guarantee shall be discharged only on the intimation thereof being given to the Surety by the Bank.
13. This guarantee is irrevocable during the period of its currency and shall not be revoked without your previous consent in writing.
14. We further agree and undertake to pay you without demur the amount demanded by you in writing notwithstanding any difference or dispute or controversy that may exist or arise between you and contractor or any other person.
15. Notwithstanding anything contained herein above our liability under this guarantee is restricted to INR _____ (INR _____ only). Unless a written claim is lodged on us for payment under this guarantee within six months from the date of expiry, including extensions if any, of this guarantee all your rights under the guarantee shall be forfeited and we shall be deemed to have been released and discharged from all liabilities there under, irrespective of whether or not the original guarantee is returned to us.
16. We have power to issue this guarantee in your favour under the Memorandum and Articles of Association of our Bank and the undersigned has full power to execute this Guarantee under the Power of Attorney granted to him by the Bank.

SIGNED AND DELIVERED

(For & on behalf of the above named Bank)

For & on behalf of

(Banker's Name & Seal)

BRANCH MANAGER

(Banker's Seal)

Address _____

Articles of Agreement

Articles of Agreement

ARTICLES of Agreement made on the ----- day of -----
----- between the Reserve Bank of India, having its Central Office at Mumbai
(hereinafter called "The Employer") of the one part and -----
(hereinafter called "The Contractor") of the other part.

Whereas the employer is desirous of doing the work of Supply, installation, testing and commissioning of X-Ray Baggage Scanner System for Bank's Office Building at RBI, Thiruvananthapuram and whereas the said drawings and the specifications and the Schedule of Quantities have been signed by or on behalf of the parties hereto.

And Whereas the Contractor has agreed to execute upon and subject to the conditions set forth in the Conditions and in the Schedule of Quantities and Conditions of Contract (all of which are collectively hereinafter referred to as "the said Conditions") the works shown upon the said drawings and/or described in the said Specifications and included in the said Schedule of Quantities at the respective rates therein set forth amounting to the payable there under (hereinafter referred to as "the said Contract Amount").

NOW IT IS HEREBY AGREED AS FOLLOWS:

1. In consideration of the said Contract Amount to be paid at the time and in the manner set forth in the said Conditions, the Contractor shall upon and subject to the said Conditions execute and complete the work described in the said Specifications and the Schedule of quantities.
2. The Employer shall pay the Contractor the said Contract amount or such other sum as shall become payable, at the times and in the manner specified in the said Conditions.
3. The said conditions and Appendix thereto and the correspondence attached hereto shall be read and construed as forming part of this Agreement and the parties hereto shall respectively abide by and submit themselves to the said Conditions and the correspondence and perform the agreement on their part respectively in the said Conditions and the correspondence contained.
4. The plans, agreement and documents mentioned herein shall form the basis of this contract.
5. This Contract is an item rate contract to be paid for according to the completion of work as contained in Schedule of Quantities or as provided in the said conditions and all as per specifications and working drawings.

6. The contractor shall afford every reasonable facility for carrying out of all works of other Contractors appointed by the Employer and shall make good any damages done to walls, floors etc. after the completion of such works.
7. Time shall be considered as the essence of this Contract and the Contractor hereby agrees to commence the work/job from the 10th day of issue of formal work order as provided for in the said conditions and to complete the entire work specified within 12 **weeks** subject to nevertheless to the provisions for extension of time.
8. All payments by the Employer under this Contract will be made only at Thiruvananthapuram.
9. All disputes arising out of or in any way connected with this Agreement shall be deemed to have arisen at Thiruvananthapuram and only Courts in Thiruvananthapuram shall have the jurisdiction to determine the same.
10. That the several parts of this contract have been read by the Contractor and fully understood by the Contractor.
11. The contractor is bound to abide by the provision of payment of wages Act 1936 and minimum wages Act 1948. The Bank reserves the right to pay the minimum wages to worker by deducting appropriate amount from liability to contractor, in case minimum wages are not paid.

IN WITNESS WHEREOF the Employer and the Contractor have set their respective hands to these presents and two duplicates hereof the day and year first herein above written.

(If the Contractor is a partnership or an individual)

IN WITNESS WHEREOF the Employer has set its hands to these presents through its duly authorized official and the Contractor has caused its common seal to be affixed hereunto and the said two duplicates has caused these presents and the said two duplicates hereof to be executed on its behalf, the day and year first herein above written.

If the Contractor is a Partnership
or an Individual

IN WITNESS WHEREOF The Bank and the Contractor have set their respective hands to these presents and two duplicate hereof the day and year first hereinabove written.

If the Contractor is a Company

IN WITNESS WHEREOF The Bank has set its hand to these presents through its duly authorised official and the Contractor has caused its common seal to be affixed hereunto and the said two duplicate/has caused these presents and the said two duplicates hereof to be executed on its behalf, the day and year first hereinabove written.

Signature Clause

SIGNED AND DELIVERED by the Reserve Bank of India by the hand of
Shri
(Name and designation)

.....
..... in the presence of
(1)
Address

(2)
Address
.....
.....
.....

Witnesses

SIGNED AND DELIVERED BY If the part is a partnership firm or any
..... individual should be signed by all or on
...1)..... behalf of all the partners.
..... Address

.....
.....
2)
.....
..
Address
.....
.....
..

Witnesses

THE COMMON SEAL OF
Was hereunto affixed pursuant to
the resolutions passed
By its Board of Directors at the
meeting held on

.....
.....
.....
.....
In the presence of

If the Contractor signs under its common
Seal the signature clause should tally with
their sealing clause in the Articles of
Associations.

The Contractor is signing by the hand of
power of attorney whether a company or
individual.

(1
)

.....

....
(2
)

.....

....
Directors who have signed these
presents in taken thereof in the
presence of

(1)

.....

(2)

.....

SIGNED AND DELIVERED BY the
Contractor by the hand Of
Shri

.....

and duly constituted attorney.

The Contractor is signing by the hand of
power of attorney whether a company or
individual.

[Scanned copy (in pdf format) of the same to be uploaded with tender]

**FORM OF BANKERS' CERTIFICATE FROM A SCHEDULED BANK
(On Bankers' Letter Head)**

To
Regional Director
Reserve Bank of India
Thiruvananthapuram

This is to certify that to the best of our knowledge and information M/s.
/Shri.....
a customer of our bank having marginally noted address, are/is respectable and
can
be treated as good for any engagement up to a limit of
₹.....(Rupees.....). This certificate is
issued
without any guarantee or responsibility on the bank or any of its officers.

For the Bank with Name, Designation & Seal

- Note:-** (i) Bankers' certificates should be on letter head of the Bank
(ii) In case of partnership firm, certificate to include names of all partners as
recorded with the Bank.

Annexure -VII

Details of Service Set up at the place of work

S. No.	Details of service Centre	
1	Address of Service Centre	
2	Contact numbers	
3	Staff strength	
4	Whether spares parts of the system have been stocked	

Signature of the contractor

UNPRICED BILL OF QUANTITY

Supply, installation, testing and commissioning of X-Ray Baggage Scanner System for Bank's Office building at Thiruvananthapuram

Sr. No	Description of items	Qty.
1	Supply of X-Ray Baggage Scanner System with accessories such as Input output Roller, Stabilizer, Combined test piece (CTP)/Test Kit etc as per specification.	01set
2	Installation, testing and commissioning of X- Ray baggage scanner specified at sr. no. 1	LS
	Total (1+2)	
3	Buy back price for existing old X – Ray Scanner (in working condition) of ECIL- Rapiscan make.	01 set
	Net Total (1+2) - 3	
4	Comprehensive AMC charges in Rupees per annum after completion of defect liability period including all taxes as mentioned at clause 12 of General instructions and Special conditions.	

DATE:

PLACE:

Signature

Name of the CONTRACTOR

SEAL