



Centre for Development of Imaging Technology (C-DIT)  
Chithranjali Hills, Thiruvallom, Tvpm-695 027  
Phone: 2380910/ 912/ 895 Fax: 2380681

---

## Tender

Extract of Public Notice:

 www.cdit.org	<p>Centre for Development of Imaging Technology (C-DIT) Chithranjali Hills, Thiruvallom, Tvpm-695 027 Phone: 2380910/ 912/ 895 Fax: 2380681</p> <hr/>
<b>TENDER NOTICE</b>	
<b>No. C-DIT/3/SET-M&amp;Z/11/T 306 Dated 14.11.11</b>	
<p>C-DIT invites sealed competitive bids for supply &amp; installation of 1) Automatic Ticketing Kiosks (4 Nos) 2) Memento Printing Machine (2 Nos). Full details are given in our Website: <a href="http://www.cdit.org">www.cdit.org</a>. Last date for receipt of sealed tenders along with EMD is 23.11.11 at 3PM. The tenders will be opened at 3.30PM, same day.</p>	
<b>Sd/ REGISTRAR</b>	

Terms & Conditions and detailed specifications:

---

**Scope of work: Supply of Automatic Ticketing Kiosks & Memento Printing Machines for M& Z Project of Software Engineering Team.**

### **I. Specification of Automatic Ticketing Kiosk- Requirement-4 Nos**

ATK consisting of :

1.	PC		Compliance
	Processor	Intel Pentium Dual core 2 Ghz or better	
	Cache	256 KB cache	
	RAM	DDR3 -2GB	
	HDD	250 GB or above	
	DVD-WR	24X or above	
	Multimedia	On board Audio and Two speakers	
	Network card	Ethernet card 10/100 Mbps	
	Additional items for maintenance	PS2 Key board & Mouse	
2.	Monitor 17"LCD with SAW Touch screen		
	Touch Screen- SWA		
	Touch screen Resolution	1024 touch points per axis within the calibrated area	
	Positional Accuracy	Standard deviation of error less than $\pm 1.5\%$ error within the active area	
	Touch Contact	As low as 3ms	
	Optical Light Transmission (As per ASTM D 1003)	At least 78% or more at 550nm wavelength (visible light spectrum)	
	Touch life	50 million touches in any one location	
	Finish	Anti-Glare & Anti Reflective.	
3.	Ticket Printer		
	Print Method	Thermal	
	No of Dots	432	
	Reso	8 dots/mm	
	Printing Speed	75mm per sec or more	
	Paper width	60mm	
	Printable width	54mm	

	Print Head life	50 km paper length	
	Paper Cutter	Automatic & Integrated	
	Cutter life	1million cuts with 80g/m2 paper	
	Interface	Parallel	
	Paper Loading	Front or bottom	
	Operating Temperature	0 to 50 deg non cond.	
	Operating Humidity	20 to 80% non cond.	
4	Coin Recycling System		
	Coin Acceptance	16 coin types max	
	Coin Dispensing	6 coin types	
5	Currency Recycling System		
	To accept Rs .5,10,20,50,100,500 &1000 (Gandhi series)		
	Validation rate	96%or above	
	Bank note insertion	Four way	
	Escrow	Multiple Notes ( programmable)	
	Validation MFBT	500000 cycle	
	Operating Temperature	0 to 50 deg non cond.	
	Operating Voltage	24V DC	
	Recycling Cassette	3 x 100 Notes capacity intelligent Recycling Cassette	
	Enclosure Design		
	<ul style="list-style-type: none"> <li>Fabricated with smooth finishing and user friendly design .</li> </ul>		
	<ul style="list-style-type: none"> <li>Fitted with cooling fans for heat dissipation.</li> </ul>		

	<ul style="list-style-type: none"> <li>• Built-in spike suppressor power points for additional power supply protection to the equipment inside.</li> </ul>	
	<ul style="list-style-type: none"> <li>• Suitable internal wiring with Earth bar for electrical points.</li> </ul>	
	<ul style="list-style-type: none"> <li>• Door with lock &amp; key and louvers for air circulation</li> </ul>	
	Software Features	
	<ul style="list-style-type: none"> <li>• Should be user user-friendly with Graphic User Interface</li> </ul>	
	<ul style="list-style-type: none"> <li>• Multi Lingual Support (English, Malayalam &amp; Tamil)</li> </ul>	
	<ul style="list-style-type: none"> <li>• Option for taking single / multiple Tickets of various Museums' and Zoo</li> </ul>	
	<ul style="list-style-type: none"> <li>• Option for taking reports from a central location.</li> </ul>	

6. Software Development charges for the ticket vending machine along with the integration to the customer application has to be quoted separately after the study at customer site by the vendor at their own cost.

7. Installation & Commissioning is part of Supply.

8. Warranty: One year from the date of supply & installation

9. The Supplier should be authorized dealer or reseller and able to provide technical support at site within a specified time limit and in case of urgency.

10. The Supplier should have supplied atleast one similar type/similar nature ATK in Kerala or nearby place and should provide details of such transaction.

11. Separate Quotes for each components of ATK will not be entertained. **(The Supplier should quote ATK as a whole unit, with separate price for each component)**

-----  
 II. Specification of Memento Printing Machine- Requirement-2 Nos

MPM consisting of -

1.	PC		Compliance
	Processor	Intel Pentium Dual core 2 Ghz or better	
	Cache	256 KB cache	
	RAM	DDR3 -2GB	
	HDD	250 GB or above	
	DVD-WR	24X or above	
	Multimedia	On board Audio and Two speakers	
	Network card	Ethernet card 10/100 Mbps	
	Additional items for maintenance	PS2 Key board & Mouse	
2.	Monitor 17"LCD with SAW Touch screen		
	Touch Screen- SWA		
	Touch screen Resolution	1024 touch points per axis within the calibrated area	
	Positional Accuracy	Standard deviation of error less than $\pm 1.5\%$ error within the active area	
	Touch Contact	As low as 3ms	
	Optical Light Transmission (As per ASTM D 1003)	At least 78% or more at 550nm wavelength (visible light spectrum)	
	Touch life	50 million touches in any one location	
	Finish	Anti-Glare & Anti Reflective.	
3.	Ticket Printer		
	Print Method	Laser	
	Print Quality	Up to 600 x600 DPI	
	Resolution	8 dots/mm	
	Printing Speed	14 PPM	
	Paper width	A4	
4	Cash Accepting System		

	To accept Rs .5,10,20,50,100,500 &1000 (Gandhi series)		
	Validation rate	96%or above	
	Bank note insertion	Four way	
	Escrow	One bank note	
	Validation MFBT	1.5million cycle	
	Self adjustable bill path		
	Enclosure Design		
	<ul style="list-style-type: none"> <li>• Fabricated with smooth finishing and user friendly design .</li> </ul>		
	<ul style="list-style-type: none"> <li>• Fitted with cooling fans for heat dissipation.</li> </ul>		
	<ul style="list-style-type: none"> <li>• Built-in spike suppressor power points for additional power supply protection to the equipment inside.</li> </ul>		
	<ul style="list-style-type: none"> <li>• Suitable internal wiring with Earth bar for electrical points.</li> </ul>		
	<ul style="list-style-type: none"> <li>• Door with lock &amp; key and louvers for air circulation</li> </ul>		

5. Software Development charges for the Memento Printing machine (Application for Fixed value Tickets (Customer should tender exact change), Ticket shall be printed on high Quality Multi colour stationary (Stationary to be supplied and loaded by the customer).Necessary MIS reports for the collection data. Customized Browser software for Information Kiosk) along with the integration to the customer application has to be quoted separately after the study at customer site by the vendor at their own cost.

6. Installation & Commissioning is part of Supply .

7. Warranty: One year from the date of supply and installation

8. The Supplier should be authorized dealer or reseller and able to provide technical support at site within a specified time limit and in case of urgency against telephonic calls.

10. The Supplier should have supplied atleast one similar type/similar nature MPM in Kerala or nearby place and should provide details of such transaction.

11. Separate Quotes for each components of MPM will not be entertained under any circumstance. *(The Supplier should quote MPM as a whole unit, with separate price for each component)*

---

**I. General Conditions:**

**EMD is 2% of the quoted value and should be submitted in the form of DD/BC/ BG favouring Registrar, C-DIT payable at Thiruvananthapuram**

1. **EMD:** The EMD of unsuccessful tenderer's will be returned as soon as the formalities are completed after award, and the EMD of the successful tenderer will be released when the successful tenderer has executed an agreement (as in Annexure-iii) and as soon as the SD is submitted. The EMD/BG submitted by all tenderers are liable to be forfeited in case the tenderer withdraws his tender or enhances the prices during the validity period.

**If the tenderer is eligible for exemption from submission of EMD, he shall produce exemption certificate from relevant authorities at the time of bid opening. (Those having valid SSI Registration in the field of Mfr/ service and if quoted for that service/ item, then the Manufacturing or Service, that Enterprise will be exempted from submission of EMD).**

2. SD: Security Deposit: If the bidder provides a Bank Guarantee/ DD/BC for the equivalent amount of 5% favouring Registrar, C-DIT within a period of 7 days after the release of purchase order , the full contract amount shall be paid by C-DIT. Otherwise CDIt shall retain 5% of the order value as Security Deposit against each purchase order for a period of 12 months from the date of the purchase order.
3. Delivery time required has to be specified clearly in the quotation.
4. The price quoted by the Supplier should be inclusive of all taxes, freight, and installation at site. The appropriate rates should be shown clearly in the invoice.
5. No additional charge for installation at site. Site is at Thiruvananthapuram.
6. Non compliance with any of the contractual provision by the Supplier shall result in the termination of the contract.
7. Deviation in Delivery Schedule: Any deviation in agreed delivery schedule will attract penalty as per C-DIT's Procurement Policy. If the delivery at site is not made within the scheduled dates, liquidated damages, not penalty amounting to ½ % of contract value shall be levied from the supplier per week of delay or part thereof for delay up to 15 days from the scheduled date of supply subject to a

maximum of 5% of contract value. Further in case of delays beyond a grace period of 15 days, C-DIT reserves the right to cancel the order without further notice

II. Authority: The authority for the acceptance of the tenders rests exclusively with the C-DIT. The C-DIT does not undertake to accept the lowest or any particular tender or to assign any reason whatsoever for the rejection of any tender.

III. Payment terms: The following terms of payment shall be applicable for the contract –100 % payment within 15-20 days time after successful supply & installation/ completion of work.

IV. Default in execution schedule: In case the Contractor fails to complete the work within the time provided for, or the contractor commits any breach of the contract, it shall be lawful for the society to cancel the contract at the risk and cost of the contractor.

V. Other conditions: a) The contractor shall undertake to supply/ use materials according to the relevant national/ international standards/specifications. No representation of enhancement of rates once accepted will be considered. b) Any deviation in the specifications in comparison with the requirement should be clearly brought to the notice of C-DIT.

VI. If you have any doubt or requires any further clarifications in respect of specifications or requires site details or any other additional details, please contact- Mr. Lal Mohan @ Mobile Number 9447401920 or Land phone number – 0471-2570110

Sd/ Senior Manager (Purchase)  
For REGISTRAR, C-DIT

Dated 14.11.2011

**Annexures:**

**ANNEXURE I**

**PROFORMA FOR BANK GUARANTEE IN LIEU OF EARNEST MONEY DEPOSIT  
(To be stamped in accordance with Stamp Act)**

Bank Guarantee No. ....

Date : .....

Ref :-

To

Centre for Development of Imaging Technology  
Chitranjali Hills  
Thiruvallom, Thiruvananthapuram – 695 027 (India)

Dear Sirs,

WHEREAS in response to your Tender Notification No. .... due on .....\* ..... M/s ..... having its registered office at ..... (hereinafter called "Tenderer") wish to participate in said tender for ..... as specified AND

WHEREAS an irrevocable bank guarantee in lieu of cash deposit for an amount of ..... valid for .....\*\*\* ..... days from ..... is required to be submitted by the Tenderer as a condition precedent for participation in the said tender, which amount is liable to be forfeited on the happening of any contingencies mentioned in the Tender documents.

We, the ..... at ..... having our Head Office at ..... (hereinafter referred to as "the Bank") do hereby undertake to pay immediately on demand to the Centre for Development of Imaging Technology, Chitranjali Hills, Thiruvallom, Thiruvananthapuram - 27 (hereinafter called C-DIT) an amount of Rs. .... (on words and figures) without any reservation, protest, demur and recourse. Any such demand made by C-DIT shall be binding on us irrespective any dispute or difference raised by the Tenderer.

This guarantee shall be irrevocable and shall remain valid upto .....\*\*\* ..... If any further extension is remitted the same shall be extended to such required period (not exceeding one year) on receiving instructions from M/s. .... On whose behalf this guarantee is issued.

In witness whereof the Bank, through its authorised Officer, has set its hand and stamp on this ..... Day of ..... Month 200 ..... at .....

WITNESS

.....

(Signature)

(Name)

(Signature)

.....

Designation with

Bank stamp

(Name)

No :

.....

Power of Attorney

Date

(Official Address)

Notes :-

The stamp paper is to be purchased in the name of  
Executing Bank

\* This date shall be due date of tender opening

\*\* The amount shall be 2% of the bid price

\*\*\* The validity date shall be 210 days from the due date of bid  
opening

ANNEXURE – II

PROFORMA FOR PERFORMANCE GUARANTEE  
(To be stamped in accordance with Stamp Act)

Bank Guarantee No. ....

Date : .....

Ref .....

To

Centre for Development of Imaging Technology  
Chitranjali Hills  
Thiruvallom, Trivandrum 695 027

Dear Sirs,

In consideration of Cetnre for Development of Imaging Technology  
(herein after referred to as C-DIT, which expression shall unless repugnant  
to the context or meaning thereof include its successors, administrators  
and assigns) having awarded to M/s.

..... with its Registered / Head  
Office at ..... (herein after referred to as the  
"Contractor"/which expression shall unless repugnant to the context or  
meaning thereof, include its successors, administrators, executors and  
assigns), a contract by issue of C-DIT's letter of intent/Purchase Order No.  
..... dated .....

and the same having been unequivocally accepted by the Contractor  
resulting in a contract, bearing ref. No. ....  
dated ..... Valued at.. for

..... and the contractor  
having agreed to provide a contract performance Guarantee for the

faithful performance of the entire contract in lieu of Cash/Security Deposit equivalent to 5% (five percent) of the said value of the Contract to C-DIT.

We the Bank (Name & Address) .....  
having our Head Office at ..... (hereinafter referred to as the "Bank", which expression shall, unless repugnant to the context or meaning thereof, include its s, administrators, executors and assigns) do hereby guarantee and undertake to pay the C-DIT, on demand any and all moneys payable by the Contractor to the extent of ..... as aforesaid at any time upto .....\*\* ..... (days/month/year) without any demur, reservation, contest, recourse or protest and/or without any reference to the contractor. Any such demand made by the C-DIT on the Bank shall be conclusive and binding notwithstanding any difference between the C-DIT and the Contractor or any dispute pending before any Court, Tribunal, Arbitrator or any other authority. The Bank undertakes not to revoke this guarantee during its currency without previous consent of the C-DIT and further agrees that the guarantee herein contained shall continue to be enforceable till the C-DIT discharges this guarantee.

The C-DIT shall have the fullest liberty without affecting in any way the liability of the Bank under this guarantee, from time to time, to extend the time for performance on the contract by the contractor. The C-DIT shall have the fullest liberty, without affecting this guarantee, to postpone from time to time the exercise of any powers vested in them or of any right which they might have against the Contractor and to exercise the same at any time in any-manner, and either to enforce or forbear to enforce any covenants, contained or implied, in the contract between the C-DIT and the Contractor or any other course or remedy or security available to the owner. The bank shall not be released of its obligations under these presents by any exercise by the C-DIT of its liberty with reference to the matters aforesaid or any of them or by reason of any other act or forbearance or other acts of omission or commission on the part of the C-DIT or any other matter or thing whatsoever which under law would, but for this provision have the effect of relieving the Bank.

The Bank also agrees that the C-DIT at its option shall be entitled to enforce this guarantee against the Bank as a Principal debtor in the first instance without proceeding against the Contractor and notwithstanding

any security or other guarantee that the C-DIT may have in relation to the contractor's liabilities.

Notwithstanding anything contained herein above our liability under this guarantee is restricted to ..... and it shall remain in force up to and including.. and shall be extended from time to time for such period (not exceeding one year) as may be desired by M/s. .... on whose behalf this guarantee has been given :

Dated this ..... day of ..... 200 -  
..... at .....

(Signature) .....  
(Banker's Rubber Stamp)

WITNESS

(Signature).  
(Name).

(Name) (Designation with Bank stamp)

(Official Address) Attorney as per power of  
..... Attorney No.  
.....

Date .....

Notes:

The Stamp papers of appropriate value shall be purchased in the name of Guarantee issuing Bank.

\*\*The date will be the expiry date of the guarantee period as specified in the Contract.

**ANNEXURE III**

PROFORMA OF "AGREEMENT"

(To be executed on non-Judicial Stamp Paper)

This Agreement made this. day of ..... Two thousand and ..... Between Centre for Development of Imaging Technology, a Society, registered under the Travancore-Cochin Literary, Scientific and Charitable Societies Registration Act XII of 1955, having its registered Office at Chitranjali Hills, Thiruvallom, Trivandrum 695 027 (hereinafter referred to as "C-DIT" which expression shall include its administrators, successors, executors and assigns) of the one part and ..... a company/firm incorporated under the.. having its registered Office at ..... (hereinafter referred to as the "Contractor" or ..... "X" ..... (brief name of contracting Co.) ..... (which expression shall include its administrators, successors, executors and permitted assigns) of the other part.

WHEREAS C-DIT has invited bids for ..... (briefly describe scope of ..... the ..... (work) as per its specification Ref. No. ....

AND WHEREAS..... "X" ..... had participated in the above referred bidding vide their proposal No. .... dated ..... and C-DIT accepted their aforesaid proposal and awarded the dated ..... and C-DIT accepted their aforesaid proposal and awarded the contract to. "X" ..... on terms and conditions contained in its letter of Indent/Purchase Order No. .... dated ..... And the documents referred to therein, which have been accepted by ..... "X" ..... resulting into a "Contract"

NOW THEREFORE THIS DEED WITNESSETH AS UNDER :-

#### Article 1.0 AWARD OF CONTRACT

C-DIT has awarded the contract to ..... "X" ..... for the work of ..... on the terms and conditions contained in its letter of Indent/Purchase Order No. .... dated ..... and the documents referred to therein. The award has taken effect from. ....i.e. .... the date of issue of the aforesaid Letter. The terms & expressions used in this Agreement shall have the

same meaning as are assigned to them in the "Contract Documents" referred to in the succeeding Article.

## Article 2.0 CONTRACT DOCUMENTS

The Contract shall be performed strictly as per the terms and conditions stipulated herein and in the following documents attached herewith (hereinafter referred to as "Contract Documents").

## Article 3.0 CONDITIONS & CONVENANTS

The scope of Contract, Consideration, Terms of payment, price Adjustment, Taxes wherever applicable, Insurance, liquidated Damages, performance, Guarantee and all other terms and conditions are contained in C-DIT's Purchase Order No. .... dated ..... read in conjunction with other aforesaid Contract documents. The Contract shall be only performed by the Contractor strictly and faithfully in accordance with the terms of the Agreement.

The scope of work shall also include supply and installation of all such items which are not specifically mentioned in the contract Documents, but which are needed for successful, efficient, safe & reliable operation of the equipment unless otherwise specifically excluded in the specifications under "exclusions" or Purchase Order.

**TIME SCHEDULE:** Time is the essence of the contract and schedules shall be strictly adhered to. "X" shall perform the work in accordance with the agreed schedule as given in letter of Indent/Purchase Order.

The Contractor guarantees that the equipment package under the contract shall meet the ratings and performance parameters, as stipulated in the Technical Specifications (Volume II) and in the event of any deficiencies found in the requisite performance figures, the C-DIT may at its option reject the equipment package or alternatively accept it on the terms and conditions and subject to levy of the liquidated damages in terms of Contract Documents. The amount of liquidated damages so leviable shall be in accordance with the Contract Documents and without any limitation.

It is further agreed by the Contractor that the Contract performance Guarantee shall in no way be construed to limit or restrict the C-DIT's right to recover the damages/compensation due to short-fall in the equipment performance figures as stated in para 3.4 above or under any other

clause of the Agreement. The amount of damages/Compensation shall be recoverable either by way of deduction from the contract price, contract performance guarantee and/or otherwise.

The Contract performance Guarantee furnished by the Contractor is irrevocable and un-conditional and the C-DIT shall have the powers to invoke it notwithstanding any dispute or difference between the C-DIT and the contractor pending before any court, tribunal, arbitrator or any other authority.

This Agreement constitutes full and complete understanding between the parties and terms of the presents. It shall supersede all prior correspondence to the extent of inconsistency of repugnancy to the terms and conditions contained in the Agreement. Any modification of the Agreement shall be effected only by a written instrument signed by the authorised representatives of both the parties.

#### Article 4.0 SETTLEMENTS OF DISPUTES

It is specifically agreed by and between the parties that all the differences or disputes arising out of the Agreement or touching the subject matter of the Agreement shall be decided by process of settlement & Arbitration as specified in clause.. and ..... of the conditions of the contract and the provisions of the Indian Arbitration Act, 1940 shall apply and Kerala Courts alone shall have exclusive jurisdiction over the same.

#### NOTICE OF DEFAULT

Notice of default given by either party to the other party under the Agreement shall be in writing and shall be deemed to have been duly and properly served upon the parties here to if delivered against acknowledgement or by telex or by registered mail with acknowledgement due addressed to the signatories at the addresses mentioned hereinabove.

IN WITNESS WHEREOF, the parties through their duly authorised representatives have executed these presents (execution where of has been approved by the competent authorities of both the parties) on the day, month and year first above mentioned at Trivandrum.

WITNESS

C-DIT

1. ....

(Signature)

(Name)

2. ....

(Designation)

(Seal)

1. ....

(Contractors signature)

(Designation)

(Seal)

2. ....