



## CENTRAL BOARD OF SECONDARY EDUCATION

(An Autonomous Organisation under the Union Ministry of Human Resource Development Govt. of India)  
"SHIKSHA KENDRA", 2, COMMUNITY CENTRE, PREET VIHAR, DELHI – 110092

F-2021/ROT/SS/2013

06.11.2013

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**Sub: Limited Tenders for P&F of CCTV, Attendance/Access Control Systems for Regional Office, Trivandrum**

**Sir,**

The CBSE intends to provide CCTV, Attendance/Access Control Systems System for Regional Office, Trivandrum. Reputed agencies of with minimum 5 years experience and having executed two (2) similar works each costing Rs. 4.0 lakh or more in reputed organizations need apply. An EMD of Rs. 10,000/- payable through DD/BD in f/o the Secretary, CBSE must be attached. The interested agencies must enclose all requisite documents. Price-Bid must be sealed separately. Sealed tenders complete in all respect must be submitted latest by 15.11.2013 upto 2:00 p.m. & dropped in a tender box placed at Kendriya Vidyalaya, Pattom, Trivandrum. Also, tenders duly filled-in can be dropped in the tender-box placed at Reception Hall, CBSE HQ Bldg., 2, Community Centre, Preet Vihar, Delhi-92. The technical-bids shall be opened on the same day at 2:30 p.m.

Incomplete & conditional tenders shall be summarily rejected. The Secretary, CBSE reserves the right to reject any or all the tenders without assigning any reason thereof.

**(S.K.Sharma)**  
**Consultant(Tech.)**

# CENTRAL BOARD OF SECONDARY EDUCATION

## TECHNICAL BID

Last date of submission: 15.11.2013  
Upto 2:00 p.m.

**Name of work :** Limited Tenders for P&F of CCTV, Attendance/Access Control Systems for Regional Office, Trivandrum

### 1. Credentials of the Tenderers

1.1 Name of the Agency with .....  
Regn. No. ....

1.2 Office Address and .....  
Tel. No. ....

1.3 Name(s) of the Proprieter/ .....  
Partners .....

1.4 WCT No. ....

1.5 PAN No. ....

(with documentary evidence)

1.6 Annual turnover during last three years  
(2010-11,2011-12,2012-13) .....

supported with documentary evidence.....

### 2. Past Experience (preferable last three years).....

With all necessary documentary evidence.....

Such as copy of work order etc.

SL. Nos.	Year	Name of the Organization	Cost of the work (executed)	Officers Concd. In the Organization with T.No.	Period From
01.	2010-2011				
02.	2011-2012				
03.	2012-2013				

2.1 Has the firm been ever debarred/Black .....

Listed by any organization ? .....

If 'Yes' the details thereof. ....

2.2 Similar work in hand at Trivandrum or near-by  
cities.....

2.3 The organizational set-up including  
Technical infrastructure/staff strength in all the categories.  
.....

2.4 Particulars of Demand Drafts annexed as Earnest

Money & Cost of tender .....

Amount : .....

DD Nos. : .....

Issuing Bank with date of issue : .....

(Signature of the tenderer)

With complete address and seal

Tel. No. : .....

Mobile No.: .....

Place : .....

Date : .....

## Technical specification

### 1. Dome Indoor IR CCTV Camera

Type	Very High Resolution Day & Night Camera
Lens	1/3" CCD Sony CCD Sensor
Signal System	530TV lines or better
Video Output	1-Vp-p/75Ω
Sensitivity	0.1 Lux (F 1.2) or better
S/N Ratio	56db or better
Power	12V±10% (for rough power conditions)
Lens	3.6mm fixed Lens, Auto iris,
Iris Drive	DC (Must have the IRIS Control for different light condition)
Flickerless	Yes (Camera Flickering in front of light source will not be accepted)
Day & Night	Auto/manual, (dip Switch Settings)
Back Light Compensation	Auto/manual, (dip Switch Settings)
White Balance	Auto/manual, (dip Switch Settings)

***Box Camera is quoted it should be quoted with suitable housing and stand for indoor application, all specs are same as above, except lens will be vari-focal 3.8mm-12mm***

Acceptable brands

Samsung, Pelco, Honeywell, Bosch, Panasonic, GE.

### 2. Indoor Speed Dome Camera

Type	Very High Resolution Day & Night Speed Dome Camera
Sensor	1/3" or 1/4" Interline CCD, WDR Camera
Signal System	600 TV lines or better
Optical Zoom	10X (3mm to 30mm or more)
Digital Zoom	10X or more
Protocol support	PELCO-D, Panasonic, Vicon, Honeywell,

	(Multiple protocol)
Video Output	1-Vp-p/75 Ω
Sensitivity	0.1 Lux
Motion Detection	On / Off selectable
Preset Positions	128 or more
Rotation Angle	Pan : 300° or more, Tilt : -0° ~ -180°
Focus Control	Auto / Manual
Communication	RS-485, RS-422, RS-232C, TCP/IP
Operating Temperature	0° ~ +50°C
Day & Night	Auto/manual, User Selectable
Back Light Compensation	Auto/manual, User Selectable
White Balance	Auto/manual, user Selectable
Power Supply	Included
Housing and Bracket	Indoor housing with bracket and cable Management

Note: Separate PAN, TILT and Zoom Camera configuration is not acceptable, hence should not be quoted.

Acceptable brands

Honeywell, Panasonic, Samsung, Pelco, Bosch

### 3. **Digital Video Recorder**

Video input	16 channels
Video output	BNC/composite/RC/VGA (only VGA input is not accepted)
Compression	<b>H.264</b>
Resolution	<b>CIF to 4CIF (PAL)</b> , should be selectable.
Display Rate	<b>Min 400 fps (PAL)</b> ,
Recording rate	<b>Min 400 fps (PAL)</b> ,
Dual Streaming	<b>Yes (Must have Dual Streaming)</b>

Play back	<b>Simultaneous 1/4/8/16 (only Single Channel playback is not acceptable)</b>
Recording bit rate	variable upto 1Mbps
Recording mode	Manual/scheduled
Hard disk capacity	<b>1 TB</b>
Expandability	Provision for additional hard disks to be Support , upto 4TB
Redundancy recording	<b>Yes</b>
Recording Time Period	Not less 5
Remote Network Support	<b>Remote query, playback and download video files,</b>
Network Protocols	<b>TCP/IP, PPPoE, DHCP, DNS, DDNS, NTP,</b>
Communication	<b>TCP/IP, RS-485, RS-232</b>
Remote operation	<b>TCP/IP, inbuilt web server, Remote software included.</b>
Operating Temperature	0 deg to 50 deg
Power	230VAC

Acceptable brands

Samsung, Honeywell, Hikivision, Panasonic,

#### **4. LCD 25"**

Type	LCD
Video input	<b>Must have Composite Video Input, (LCD/TFT having only VGA input will not be accepted and will be Summarily rejected)</b>
Size	22 inches or more
Contrast Ratio	5,000:1 or better
Brightness	min 300cd/m <sup>2</sup>
View Angle	160H/V or more
Resolution	1680 X 1050
Response Time	5 ms or less

Stand

Wall mount or table top, included

Power

230V AC

Acceptable brands

Samsung, Honeywell, LG, SONY, PANASONIC.

#### **5. Power Supply**

Type

SMPS power supply

Input

230V± 10%

Output

12± 10%

Amp Rating

3 Amp

Switching time

≤ 10ms

#### **6. Cables**

(a) Video cable

3+1 solid copper

Acceptable brands :

D-Link, kalinga, Anchor

#### **7. Conduit**

(a) Conduit/channel

¾ /1" PVC Conduit

Acceptable Brands :

AKG, Setia/Polycab/other equivalent ISI Marked

# Schedule of work

## "Price-Bid"

Name of work: S.I.T.C of CCTV system at R.O. Trivandrum

S.No.	Description of item	Qty.	Unit	Rate	Amount
1	H.264 compression 16ch DVR with 16 video input,1ch audio input (RCA),2SATA HDD support,USB 2.0,Record: support CIF realtime recording or D1(4CIF) recording with 6/7fps, dual encoding streams, smart phone monitoring(windows mobile) Model,Samsung1652  Approved brands : As per tech. specification sheet	1			
2	Samsung 2020P, Dome Indoor IR,1/3 Sony super HAD CCD color,600 TVL,IR Fixed lens o Lux,3.5 MM Lens,IR Wall mounted  Approved brands : As per tech. specification sheet	7			
3	Samsung Indoor Speed Dome Camera with 600 TVL,1/3 CCD Sony Lens,10XDizital Zoom,with optical Zoom,Rotation Angel 360",Tilt 180: with day night mode  Approved brands : As per tech. specification sheet	3			
4	Samsng LCD 25 " Display Unit For Camera  Approved brands : As per tech. specification sheet	1			
5	Balun Connectors	20			
6	Installation, commissioning and delivery Charges complete etc.	10 pcs			
7	Western Digital 1 TB	1			
8	Power supply For 10 Cameras 10 Amp (reputed brands)	1			



9	Wiring with 3+1 copper wire in PVC conduit pipe				
	20 mm	150	Mtr.		
	25 mm	100	Mtr.		
	<b>Approved brands : As per tech. specification sheet</b>				
10	Non-comprehensive AMC charges per year (for next 3 years)	% rate of hardware cost	L.S.		

**Grand Total**

( Signature of the Agency)  
With complete address and seal

Add. \_\_\_\_\_

\_\_\_\_\_

Tel. No.: \_\_\_\_\_

Mobile No.: \_\_\_\_\_

## Schedule of work

### “Price-Bid”

**Name of work: S.I.T.C of Attendance Machine/Access control system at R.O. Trivandrum**

ATTENDENCE MACHINE/ ACCESS CONTROL SYSTEM					
S.No.	Description of item	Qty.	Unit	Rate	Amount
1)	Supply, installation, testing & Commissioning of centralised Access Door controller capable of controlling 2 <b>Nos. doors (2 Nos. Access Control Doors)</b> along with individual access door controllers/ Reader modules, required interface module for connecting to existing PC for Access control systems, Time attendance software module, power supply unit with SMF batteries etc. complete as per specifications and as required. The system shall be capable of managing upto 5000card holders database . The Access control software shall be server client base and shall be able to support four to five users simultaneously. The Colour Printer shall be provided for printing of Cards. <b>Real Time (Make Korean)</b>	1	Set		
2)	<b>Supply, installation, testing &amp; commissioning of Proximity Digital Card Reader with a range of 3-5" complete as required and as per specification. complete as required.with 30 Nos Card</b>	30	Nos		
3)	<b>Supply, installation, testing &amp; commissioning of Emergency exit push button including break glass enclosure complete as required.</b>	1	No.		
4)	<b>Wiring with Cat 6 cable (Approved brand : D-Link )</b>	45/-mtr			
5.	<b>P&amp;F of PVC conduit on surface/recess (as per directions of the Engineer Incharge ) (Approved brands : AKA/Setia/Polycab/other ISI marked 20 mm</b>	30	Mtr.		
6.	<b>S&amp;F metal box of nominal size on surface/recess with phenolic laminated sheet cover i/c ptg. Etc. as required.</b>	2	Nos.		
	<b>75 x 75 x 60 mm</b>	1	No.		
	<b>150 x 75 x 60 mm</b>				

7.	<b>Non-comprehensive AMC Charges Per year (for next 3 years)</b>	<b>Per</b>	<b>% rate of hardware cost</b>		

**Grand Total**

(Signature of the tenderer)

With complete address and seal

Tel. No. :.....

Mobile No.: .....

Place : .....

Date : .....

## Terms and Conditions

1. The work must be executed as per the specifications and best engineering practice.
2. Rates must be quoted both in figures & words.
3. Cutting/overwriting should be avoided. In case of any cutting/overwriting, the same must be initialed/authenticated.
4. Rates are to be quoted on the prescribed format.
5. CBSE reserves the right to deviate the quantity. Any item can be deleted if not required as per site condition. Payment shall be made on the basis of the measurements.
6. ALL T & P shall be arranged by the agency at their own cost.
7. In case of any damage to the structure, the same shall be made good by the agency.
8. The rates quoted must be inclusive of all Taxes.
9. Since the firms are required to give demonstration of the proposed system, Board does not bind itself to accept the Lower-bid or to give any reasons for its decisions.
10. The agency shall be bound to complete the work within 20 days from the issue of the work order.
11. In case of delayed execution a penalty @ 1% per week shall be levied.
12. The agency selected for the work shall deposit a performance guarantee equivalent to 10% of the total value of the work. It can be submitted in the form of the Bank Guarantee.
13. In case of slow progress & the Board put to any financial loss, the CBSE shall invoke the Bank Guarantee.
14. The agency shall submit all the guarantee cards/Brochures to the Engineer-In-Charge.
15. All materials brought to site shall be subjected to the approval of the Engineer-In-Charge. In case of any unapproved material is used, the same shall be removed by the agency at his own expense.
16. Non Comprehensive AMC shall for a period of 3 years shall have to be undertaken by the agency for which separate agreement shall be executed.
17. 10% of the basic value of bill shall be retained as defect liability for a period of six months effective from the date of completion. In case of satisfactory performance, the same shall be refunded without interest.
18. No running payment is permissible however; the final bill would be processed & cleared within 30 days from the date of its submission.
19. The equipments /products installed must be guaranteed for a period of one year from the date of completion.
20. The safety & security of the equipments/products after its installation shall rest with the Board.
21. The complaint if reported shall be got rectified by the agency within 24 hours failing which a penalty @ Rs. 200/- per day shall be levied.
22. In case of any dispute, the Chairman shall have the right to appoint an Arbitrator whose decision shall be final & binding on both the parties.

( Signature of the Agency)

With complete address and seal

Add. \_\_\_\_\_

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