

TENDER NOTICE

1. Member Secretary, Central Pollution Control Board invites sealed tenders from reputed firms/agencies for the following work:
2. **Name of Work** : “Installation, commissioning, Testing and operation of Face Recognition System / Biometric Finger Print based time and attendance System / Access Control System” in Parivesh Bhawan, Central Pollution Control Board, East Arjun Nagar, Delhi.

E.M.D Amount : ₹ 10, 000/- = (₹ Ten thousand only)
Last date of receipt of tender : 14/07/2014 up to 4:00 p.m.
Date of tender opening : 16/07/2014 at 3:00 p.m.
3. The intending bidder should fulfill the following requirements:-
 - (i) The firm should submit satisfactory completion certificate for **Installation, commissioning, Testing and operation of Face Recognition System / Biometric Finger Print based time and attendance System / Access Control System”** work from reputed organizations, where the firm has executed the above work satisfactorily
 - (ii) The firm should have valid Income Tax registration certificate & Sale Tax registration certificate as well as clearance certificates.

The Tender Document containing technical details and other terms and conditions can be obtained in person on production of authority letter of the firm in DUPLICATE or by post from the office of Administrative Officer (P)) Fifth Floor from 11.00 a.m. to 4.00 p.m. between 30-06-2014 to 13-07-2014 on all working days.

The Tender Document can also be downloaded from CPCB website www.cpcb.nic.in

**Member Secretary
Central Pollution Control Board**

Installation, commissioning, Testing and operation of Face Recognition System / Biometric Finger Print based time and attendance System / Access Control System” in CPCB, DELHI

TERMS OF REFERENCE

1. BACKGROUND

The Central Pollution Control Board (CPCB), a statutory organization is functioning under the Administrative control of Ministry of Environment & Forests. The Central Board receives 100% grant- in- aid from the Central Government to discharge its functions.

2. OBJECTIVE

The objective of the project is to have a systematic Time Attendance System at Central Pollution Control Board, Parivesh Bhawan, East Arjun Nagar, Delhi – 110 32. To ensure control of punctuality of staff members and security of the premises.

3. SCOPE OF WORK

To Install, commission, Test and operation of Face Recognition System / Biometric Finger Print based time and attendance System / Access Control System” at Central Pollution Control Board, Delhi.

4. LOCATION

Central Pollution Control Board, Parivesh Bhawan, East Arjun Nagar Delhi-110032.

Terms & Conditions:

1. The sealed tenders shall be submitted in three separate sealed covers, duly completed in all respects. First envelope should be superscribed with "earnest money", the second envelope should superscribed with "Technical Bid" and the third envelope with "Financial Bid". All the three envelopes should be kept in one sealed cover superscribing with “Tender For Installation, Supply, Commissioning, Operation & Maintenance of Biometric Face Recognition & Attendance System” on or before 14/07/2014.
2. Sealed tenders should be dropped in the quotation box kept at reception, Ground Floor of Parviesh Bhawan, CPCB on or before **14.07.2014** by 4.00 pm.
3. The tenders should to be submitted with an EMD of ₹ 10,000/- (₹ Ten Thousand only) by Demand Draft in favour of Central Pollution Control Board, Delhi. The EMD of unsuccessful bidder will be refunded after award of work to the successful bidder. The EMD of successful bidder will be refunded after the successful installation/commissioning of the Systems.
4. Sealed quotations should be addressed to:

The Administrative Officer (P)
Central Pollution Control Board
Parivesh Bhawan
East Arjun Nagar, Delhi — 110032

5. The firm shall have to provide comprehensive maintenance support, if required at least for a period of four years after the warranty period is over for which Comprehensive Annual Maintenance Contract (CAMC) will be signed in between CPCB and the successful bidder separately.
6. The supplier shall not assign or sublet any portion of the work except with written consent of CPCB, failing which CPCB may terminate the contract, whereupon the performance guarantee / security deposit/EMD shall stand forfeited and at absolute disposal of CPCB.
7. If the information provided by the supplier found to be wrong at any point of time, CPCB reserves the right to reject such tender at any stage or to cancel the contract, if awarded, and forfeit the earnest money.
8. Bidder should also submit a copy of VAT, PAN & Service Tax registration certificate with the bid.
9. Quantity may increase or decrease as per actual implementation of the work.
10. If the work requires any other item(s) other than mentioned in Annexure-II, during implementing the work, shall be informed and quoted separately, to complete the project.
11. The rates quoted should be given exactly as per Annexure - II.
12. Income Tax shall be deducted at source as per rule.
13. It may be noted that mere quoting the lowest rates will not entitle any firm to get the order.
14. The rates quoted shall be valid for three months from the date of opening of financial bid.
15. The terms & conditions and taxes etc. shall be mentioned clearly in the bid document.
16. The rates should be quoted both in figures and words and if there is any variation, the rates quoted in the words shall be treated as final.
17. The annual turnover of the firm should not be less than ₹ **1.0 crore and be supported with Audited Annual Statement of Accounts.**
18. The Service Centre of the firm must be within NCR.
19. This is a Turn Key Project which involves **“Installation, commissioning, Testing and operation of Face Recognition System / Biometric Finger Print based time and attendance System / Access Control System”** and includes laying, fixing cables, OFC, Conduit and other accessories as per Annexure-III.
20. Rates for CAMC should be quoted separately.
21. The Chairman, Central Pollution Control Board reserves the right to cancel any or all the quotations without assigning any reasons thereof.
22. In case of dispute the decision of Chairman Central Board shall be final and binding on both parties.

QUALIFYING PARAMETERS:

- a. **SIMILAR WORKS:** Should have successfully completed similar *works each costing not less than ₹ 5.0 lacs* during last 5 years ending 31/ 01/ 2014.
- b. **TURNOVER:** Average Annual Financial Turnover during the last 3 years, ending 31st Mar' 2014 should be at least Rs. 1.00 Crore.
- c. The company should be ISO9001 certified.

Note: The annual turnover is taken for last three financial years. If it is mentioned “Nil” by the bidder for a particular year, it shall be considered as ZERO for computing average.

PENALTY

- Failure to rectify a down system within 24 Hours (after logging the complaint) for any reason like non availability of spares, non availability of Maintenance Engineer will be taken seriously and shall attract penalty of ₹ 500/- per day from the date of failure of the system. This amount shall be deducted from the security amount (i.e. 10% of the cost of the work) without any notice to the firm.
- System down time should not be more than THREE consecutive DAYS and FIFTEEN DAYS in a year otherwise security money shall be forfeited.

COST

- The total cost of the system for deliverable is **exclusive of all taxes and levies**.
- The total number of machines may increase or decrease subject to actual requirement at the time of execution of work and accordingly cost shall be calculated.

MODE OF PAYMENT

- 90% Payment shall be made by cheque on satisfactory installation and commissioning of the system.
- 10% of the balance payment shall be kept as security amount.
- Balance security amount will be released after completion of the warranty period.

TIME SCHEDULE

- Installation and commissioning of the whole system should be completed within **thirty days**, from the date of receipt of award letter by the firm.

TECHNICAL PROPOSAL

Technical proposal should include detailed specifications as per Annexure — I.

FINANCIAL PROPOSAL

Specific item-wise and complete setup cost should be mentioned in financial proposal as per Annexure-II & III.

Note: Typographical & clerical errors are subject to correction.

Technical Proposal

Annexure-I

Parameter	Specifications	Deviation (if any)	Whether Available and inbuilt or not (if not mention additional cost)
A. Fixed IP Dome Camera			
Image Sensor	1/3" CCD/CMOS or better		
Total Image Pixels	1600 x 1200 pixels		
Resolution	Up to 2 megapixels or better		
Lens	4mm		
Day & Night	Auto		
Min. illumination	0.07Lux @ F1.2,AGC On, 0 Lux With ICR		
White Balance	Auto		
Noise Reduction	Digital Noise Reduction : 3D DNR		
Wide Dynamic Range	Digital WDR		
Alarm I/O Option	Audio/Alram I/O option should be available		
AGC	Auto		
S/N ratio	Better than 50dB		
BLC	Auto		
Shutter control	1/50 (1/60)s~1/100,000s		
Ethernet:	10Base-T / 100Base-TX, RJ45 connector		
Video Compression:	H.264		
Bit Rate	32K~2M, adjustable (8Mbps Maximum)		
Protocols:	TCP/IP, HTTP, DHCP, DNS, RTP / RTCP, PPPoE (FTP, SMTP, NTP, SNMP addible)		
No. of Simultaneous Users:	Up to 6 user connections at the same time		
Motion Detection	Supported		
Dual Stream:	Supported		
Security Measures:	User authentication (ID and password), Host authentication (MAC)		
Communication interface	1 RJ45 10M / 100M ethernet interface, 1 RS-485 interface		
Alarm Input:	1 channel signal input		
Alarm Output:	1 channel relay output		
Power Supply:	12VDC, ±10%		
Power Consumption:	6W MAX		

Working Temperature:	0°C ~ 50°C		
Power Supply	12V DC/PoE		
B. 16 Channels Network Video Recorder			
Video Input			
IP Video Input:	16-channel 4CIF Real Time		
Video output			
CVBS output	2-ch, BNC(1.0Vp-p, 75Ω), Resolution: 704×576(PAL)		
HDMI output	1-ch, resolution: 1024×768/60Hz, 1280×1024/60Hz, 1920×1080/60Hz		
VGA output	1-ch, resolution: 1024×768/60Hz, 1024×768/70Hz, 1280×1024/60Hz		
Synchronous playback	16 channel		
Hard Disk			
Interface Type:	2 SATA interface		
Capacity:	Each interface supports upto 4TB capacity		
External Interface			
Network Interface:	1RJ-45, 10/100/1000Mbps self-adaptive Ethernet interface		
Serial Interface:	1 RS232 serial interface 1 RS485 serial interface 1 keyboard 485 serial interface		
USB Interface:	2 or more, USB2.0		
Alarm In:	16-ch		
Alarm Out:	4-ch		
General			
Power Supply:	100~240VAC, 6.3A, 50~60Hz		
Consumption:	≤20W (without HDD)		
Working Temperature:	10%~90%		
Chassis:	19" standard 2U chassis		
C. Network Video Monitoring Software			
Live View	Multi-screens for main view and screen can be separated by dragging the tab. Picture capture and real-time recording in live view mode; Digital Zoom; Channels can be managed by group; Cycling live view; Easy configuration of brightness, contrast, saturation and hue parameters; Record file and captured pictures are easily managed. Instant playback function enables the quick switch of the live view and playback; Two-way audio; Display status of supervisory place		

Record	<p>Graphically recording schedule configuration; Variety of recording types(event and normal); Remote control the recording on the device side; Configurable recording schedule template; Distributed PC NVR deployment and management; Pre-allocate hard disk for recording;</p>		
Video Playback	<p>Record files searching by channel, time and event; Fast forward play and single frame play; Resume function for disconnected video channels; Filter the search result by record types; Locate with processing bar exactly; Multi-screen playback simultaneously; Capture pictures when playback; Download data when playback; Clip record file when playback; Volume control during playback; Smart searching for the event record when playback.</p>		
User Management	<p>Client user of management; Channel-detailed permission control; Three user management levels</p>		
Device management	<p>Supports DVR/DVS/IPC/IP Dome/Decoder/NVR connection; Adding and deleting device and remote device parameters configuration; Search the active on-line devices; Device adding by domain name</p>		
Log management	<p>Client log query; Remote device log query and backup; Backup client logs; Check log files;</p>		
Alarm	<p>Provide multiple alarm types, including HDD full alarm, HDD error alarm, video loss alarm, video tampering alarm, motion detection alarm, I/O alarm, server status abnormal alarm, etc.;; Provide multiple alarm linkage actions, including linkage like decoding on TV wall, email linkage, etc.;; Automatically arming for all devices; Filter according to alarm type</p>		
Video Wall	<p>Multiple output mode; Adding decoding streams by dragging mouse;</p>		
E-Map	<p>Eagle view operation; Parent map and child map function to link the maps; Locate camera position by dragging channel icon. Alarm information and event image display on the map</p>		

Others	Multi-screen display; Manual lock screen; Display system status(CPU, time) Configuration files import/export; Display information of channel;		
D. Work Station for NVR Software			
Intel Core i7 processor			
Intel chipset and Motherboard			
4 GB DDR3 RAM			
500 GB Hard disk			
1GB Nvidia Graphics card with HDMI output, DVD writer, Windows 8 Professional 64 BIT Licensed OS			
Keyboard , mouse			
E. Face Recognition based Time Attendance System			
CPU	600 MHz		
Memory	256 Flash, 64M SDRAM		
Camera	High Resolution Infra Red Camera		
Display	4.3 inches color TFT touch Screen		
Face Capacity	1200 Templates		
Transaction Capacity	100000 transactions		
Battery Backup	2000 mAH - Optional		
Communication	RS 232/485, TCP/IP		
USB Host	Two USB Host		
Access Control Inteface	Support third party Electronic Lock, Door Sensor and Exit Button		
Wiegand Signal	Output		
Optinal Functions	Extendable Scheduled-bell, Short Message, Web- server, GPRS, Wi-Fi Communication		
Identification time	Less than 1 second		
Power supply	12V DC 3A		
Operating Temperature	0°C - 40°C		
Operating Humudity	20%- 80%		
F. Electro Magnetic Lock			
Current consumption	500 mA		
Holding Force	up to 600 lbs		
Sensor Type	With Feedback		
LED	Green/Red Indication for EM Lock Status		
Casing	Anodized Aluminium Casing with anti rust surface		
Protection	Surge and Spike Protection PCB		
	Anti Temper Jam Nuts		

Operating Temperature	0°C - 55°C		
G. Attendance management software.			
Software Type	Web based software		
Back End	MS SQL Server		
Extra Module	Employee Self service portal		
Features for downloading	<p>Software viewed anywhere over Internet. Directly supports push data feature in realtime. Leave management, OD management, shift management should be there. All kind of reports like Present absent, late comers , Od report, Leave and work duration report. Employee can directly login his account to check his/her attendance</p>		

Financial Proposal for System

A. Fixed IP Dome Camera				
PARAMETERS	REQUIRED SPECIFICATIONS	Quantity	Unit Cost	Total Cost
2 Mega Pixel IP Dome Camera	Two Mega Pixel IP Network Dome Cameras. For Detailed specifications, Pl. refer to Tender Document.	Ten		
B. 16 Channels Network Video Recorder				
PARAMETERS	REQUIRED SPECIFICATIONS			
NVR	Standalone NVR device which can support 16 cameras. For Detailed specifications, Pl. refer to Tender Document.	One		
HDD	Special Surveillance Hard Disk Drives 2 TB	Two		
Work Station	Workstations for IP NVR software with intel core i7 processor. For Detailed specifications, Pl. refer to Tender Document.	Two (NVR & NVM)		
CMS	Multi screens for main view. Central Monitoring Video Management Software	One		
C. Network Video Monitoring Software				
Software	Capabilities/ features are as explained in Tender Document	One		
D. Face Recognition based Time Attendance System				
Parameter	Specifications			
Face Recognition Machine	RFID Based Face & Fingerprint. For Detailed specifications, Pl. refer to Tender Document.	Ten		

E. Electromagnetic Lock				
EM Lock	Electromagnetic Lock with 600 Lbs holding force, surface mount, single door lock with dual color LED indication with installation bracket	Ten		
Exit Switch	Metal Frame Exit Switch	Ten		
RF Card	ISO Thin Card	200		

F. Attendance Management Software				
Software Type	Web based software	One		
Back End	MS SQL Server			
Extra Module	Employee Self service portal			
Features for downloading	Software viewed anywhere over Internet. Directly supports push data feature in realtime. Leave management, OT management, shift management should be there. All kind of reports like Present, Absent, Late Comers , OT report, Leave and work duration report. Employee can directly login to check his/her attendance.			
Total Cost				

The Total cost in Rupees in figures as well as in words.....

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The cost of items starting from sl. No. A to H should be clearly mentioned (exclusive of all taxes and duties etc.,). Additional cost, if any, in sub sections of the serialized items may be mentioned clearly and total cost in the last row should be mentioned. The total cost shall exclude the cost of CAMC mentioned at SI No. I.

Cables, OFC, Conduits and Accessories

PARAMETERS	REQUIRED Item	Quantity	Unit Cost	Total Cost
CAT6 cable	CAT6 UTP Cable Make Molex	As per actual		
UTP connectors	RJ 45 Connectors. Make DLINK	As per actual		
PVC conduits	Rigid/Flexible PVC Conduit Pipes 32mm including accessories	As per actual		
Network Switch	Smart Managed 24 port gigabit PoE Switch	Two		
Racks	12U network racks with fan, shelves and power distribution strip.	One		

Note: The rates per unit may be given and quantity will be decided.

Cost of CAMC (starting after completion of Guarantee/Warranty period) should be quoted in percentage				
First Year				
Second Year				
Third Year				
Fourth Year				