

TENDER NO.: S-CEM/GA/CCTV/01/2018-2019

TENDER DOCUMENT

**SUB: Tender for Supply, Installation, Testing, Commissioning and Maintenance of IP Based Video surveillance System (CCTV) at SAMEER-CEM, Taramani & Perungudi Campus, Chennai**

DUE ON :12.02.2019 at 14.00 Hrs.  
EMD :18,000/-



SOCIETY FOR APPLIED MICROWAVE ELECTRONIC  
ENGINEERING AND RESEARCH

(An Autonomous R&D Institution under the Ministry of Electronics &  
Information Technology, Govt. of India)

SAMEER- Centre for Electromagnetics,  
CIT Campus, 2nd Cross Road, Taramani, Chennai-600 113  
Phone No: (044)22541583/1817/22544020/4061  
(Fax). (044) 2254 1938/ 1424  
Website: <http://cem.sameer.gov.in>  
E-mail: purchase.chn.sameer@nic.in

NOTICE INVITING TENDER(NIT)

(Submission of Tender in Two Bid Format)

Sealed Tenders are invited under Two Bid (Technical & Commercial) for Supply, Installation, Testing, Commissioning and Maintenance of IP Based Video Surveillance System (CCTV) at SAMEER-CEM, Taramani & Perungudi Campus, Chennai. Tender Documents can be downloaded from SAMEER-CEM website <<http://cem.sameer.gov.in>> and CPPP website <<https://eprocure.gov.in/cppp/>>

IMPORTANT DATES & TIME

Last date and time of Submission of bids by the prospective bidders in Two Bid Format	<b>12.02.2019 at 14.00 hrs.</b>
Date and Time of Opening of Technical Bids	<b>12.02.2019 at 14.30 hrs.</b>
Venue of Opening of Bids	SAMEER-CEM, Taramani, Chennai – 600 113
Tenders to be submitted at	Security Gate, SAMEER-CEM, CIT Campus, 2 <sup>nd</sup> Cross Road, Taramani, Chennai – 600 113

IMPORTANT NOTE:

- Please strictly adhere to the dates/times mentioned in this document.
- The bid will be opened in the presence of bidders/representatives. If any unscheduled holiday occurs on the date of submission/opening, then next working day shall be prescribed as date of submission/opening.
- Prospective bidders are requested to submit their offers in **Two-Bid format** only as per tender documents.
- Requests for postponement of date and time of submission and opening of bids will not be entertained.
- Fax/email bids will not be accepted.
- Late/Delayed bids shall not be opened.
- Please send your bids to the Programme Director at the address mentioned above

**Tender for Supply, Installation, Testing, Commissioning and Maintenance of IP Based Video surveillance System (CCTV) at SAMEER-CEM, Taramani & Perungudi Campus, Chennai - 600 113**

1. SAMEER-CEM, Chennai invites bids for **Supply, Installation, Testing, Commissioning and Maintenance of IP based video surveillance System (CCTV) at its office at Taramani & Perungudi** in two-Bid System.
2. The bids duly filled in all respect enclosing necessary documents may be addressed to, **The Programme Director, SAMEER-Centre for Electromagnetics, CIT Campus, 2<sup>nd</sup> Cross Road, Taramani, Chennai - 600 113** to reach on or before 12.02.2019
3. The technical bids will be opened on the same date at **14:30 hrs i.e. 12.02.2019** at SAMEER-CEM, Taramani, Chennai in the presence of bidders who may wish to be present, either by themselves or through their authorized representatives.
4. The detailed Terms & Conditions as Annexure-I, Scope of Work as Annexure-II, Format for submitting Technical bid as Annexure-III, Price Bid as Annexure-IV and Bidder's Particulars as Annexure-V and Self-Declaration as Annexure-VI are attached. Tender document and can be downloaded from SAMEER-CEM website <http://cem.sameer.gov.in> and CPPP website <https://eprocure.gov.in/cppp/>

**HEAD-ADMINISTRATION**

## INSTRUCTION TO BIDDERS

### ANNEXURE-I

#### 1. Eligibility Criteria:

- a. The vendor should be a reputed company and registered with GST Department. Self-attested copy of the GST No. should be enclosed.
- b. Vendor shall have its registered office/Branch Office/ Service Centre/ in Chennai and shall submit a self-attested proof of the same.
- c. Bidder should have positive net worth/should be profitable as on 31-03-2018. The average turnover of the bidder shall be Rs.50.00 Lakhs (Rupees Fifty Lakhs) for the last three years ending 31st March 2018 i.e., FY 2017-2018,2016-17,FY 2015-16.
- d. Bidder should have completed at least three work orders amounting to Rupees 5.00 (Rupees five lakhs) each pertaining to supply and installation of CCTV and other accessories during last two years up to 31/12/2018.
- e. The Bidder should not be blacklisted by any of the Government agencies. Declaration should be given by authorized signatory and undertaking in this regard must be submitted as per the format in Annexure-IV.
- f. Bids not satisfying the above eligibility criteria / not accompanied by the requisite documentary proofs shall be rejected and not considered further for evaluation of commercial proposal.
- g. The various crucial dates relating to **Supply, Installation, Testing, Commissioning and Maintenance of IP based video surveillance System (CCTV) at SAMEER-CEM,Taramani,Chennai** are cited as under:

(a)	Date of Issue	25.01.2019
(b)	Last Date and time for submission of Tender Document	12.02.2019 at 14.00 Hrs.
(c)	Date of Opening of Technical Bids	12.02.2019 at 14.30 hrs.
(d)	Date of Opening of Commercial/Financial Bids	Will be intimated later

SAMEER-CEM reserves the right to change any date/time mentioned in the schedule above under intimation to all concerned.

## 2. Submission of the bid:

- a. The bid shall be submitted in the following manner as mentioned under:
  - I. Envelope-I : shall contain Techno-commercial document including tender document duly stamped and signed on each page as token of acceptance of all terms and conditions of the tender in a sealed envelope.
  - II. Envelope-II: Shall contain the requisite EMD / documentary proof for waiver of the same as legally permitted etc, in a sealed envelope and superscribed as "EARNEST MONEY DEPOSIT".
  - III. Envelope-III : Shall contain the price bid involving duly filled Form-I and Price bid as per Annexure-III of this tender in a sealed envelope
- b. All the envelopes I, II and III should be sealed separately and shall be put inside a outer cover and superscribed as "Tender for Supply, Installation, Testing, Commissioning and Maintenance of IP based video surveillance System (CCTV) at SAMEER-CEM,Chennai".
- c. Unsigned or unstamped tender shall not be accepted.
- d. The completed bids may be submitted in person or the bids may be sent by registered post/speed post to **The Programme Director, SAMEER-Centre for Electromagnetics,CIT campus, 2<sup>nd</sup> Cross Road,Taramani,Chennai - 600 113** so as to reach by the time and date stipulated for receipt of Bid.

## 3. Earnest Money Deposit (EMD)

- a. All Bids must be accompanied by Earnest Money for an amount of **Rs.18,000 (Rupees eighteen thousand only)**(except where legally exempted) in the form of Demand Draft issued by any Scheduled / nationalized bank of India drawn in favour of SAMEER-Centre for Electromagnetics, payable at Chennai.
- b. In case the Bidder claims for waiver of EMD, the bidder shall provide documentary proof of being registered with the National Small Industries Corporation (NSIC)/MSME or the concerned Ministry or Department as per Rule 170 (i) of GFR 2017 of Government of India. The registration must remain valid till the Bid Validity period.

- c. Bids without Earnest Money or documentary evidence for waiver of the same as indicated above shall be summarily rejected as non-responsive.
- d. Unsuccessful bidder's EMD will be returned within 30 days from the date of placement of order to the successful bidder.
- e. The successful bidder's EMD will be released along with the final payment to it on completion of the work.
- f. No interest is payable on the EMD.

#### 4. Period of Bid Validity:

Bids shall remain valid for 90 days from the date of bid Opening. Any Bid valid for a shorter period than the period specified shall be rejected as non-responsive. In exceptional cases, SAMEER-CEM may seek extension of the bid validity period, where the process could not be completed for any reason.

#### 5. Clarification regarding Tender Document:

- a. A prospective Bidder requiring any clarification about the Tender Document may request SAMEER-CEM in writing by E-Mail [:ramamoorthi.sameer@nic.in](mailto:ramamoorthi.sameer@nic.in)  
[Phone: 044-22544020](tel:044-22544020)
- b. At any time prior to the last date of submission of bids, SAMEER-CEM may modify Request for Proposal (RFP) without assigning any reasons.
- c. **Any modifications in RFP or corrigendum shall be hosted only on SAMEER-CEM website.** Prospective bidders are requested to visit our website before submitting the bids.
- d. SAMEER-CEM at its discretion may extend the last date for the receipt of Bids.
- e. SAMEER-CEM reserves the right to reject/cancel any (bid) or all bids or the RFP without assigning any reason thereof and without incurring any cost to be payable to any party.

#### 6. Last date & Time for receipt of Bids:

The last date for receipt of Bids 12.02.2019. Technical Bids will be opened on the same day at 14.30 Hrs. Date of opening of Financial bids will be intimated separately to the technically qualified bidders.

## 7.Late Bid

Any delay, even postal delay, in the receipt of bid would be considered late submission of bid and summarily rejected.

## 8.Bid Prices

- a. The prices shall be quoted in Indian Rupees only.
- b. All taxes, duties, levies applicable etc., shall be clearly indicated.
- c. Prices quoted must be firm and shall remain constant throughout the period of validity of bid and shall not be subject to any upward modifications, whatsoever.

## 9.Evaluation of Bids:

The evaluation of the Bids submitted shall be done in following two stages

### a. Technical Evaluation

The bids shall be opened in front of the bidders and technical evaluation shall be carried out to conform to tender requirements.

### b. Commercial Evaluation

i.Only the technically qualified bidders shall be invited during opening of commercial bids.

ii.If any arithmetic discrepancies found in the commercial bid then actual price will be derived based on the unit price quoted & taxes thereon. If there is any difference between price quoted in figures and words then lowest among these shall be considered for determination of L1.

iii.Initial evaluation / comparison for various categories of items given in the Tender Document will be done on the basis of Gross Bid Value. The bid with lowest commercial Bid (L1) shall be considered for the award of contract.

iv.The bidder whose evaluated price is found to be lowest (L-1), shall be considered for placement of Work Order for supply and installation and maintenance of CCTV.

## 10.Award of Contract:

- a. SAMEER-CEM shall issue PO to the L1 bidder, prior to the expiry of the period of Bid validity period or may request the bidder to extend the bid validity period in case of exceptional cases. The Successful Bidder shall give his acceptance within 1 week from the date of issue of PO. A separate contract shall be entered into with the successful bidder upon the terms and conditions mentioned therein.

- b. The liability of the successful bidder to perform the job will commence from the date of notification of Award. The Completion Period shall be counted from the date of Notification of Award of Work.

**11. Service Delivery:**

Service delivery shall be within 3 weeks from the date of PO/Contract.

**12. Performance Guarantee:**

- a. The successful bidder who is awarded the contract shall be required to deposit a Performance Security Deposit @ 5% of the total value of the contract in the form of Demand draft/Bank Guarantee/Fixed Deposit from any Scheduled Commercial Bank drawn in favour of SAMEER-Centre for Electromagnetics, Chennai covering the period of contract and 180 days beyond the contract period. In case, the contract is further extended beyond the initial period, the Performance Security Deposit will have to be accordingly extended/renewed by the successful bidder. All incidental charges whatsoever such as premium, commission etc. with respect to the Bank Guarantee shall be borne by the successful bidder. No interest shall be paid on the Security Deposit/Performance Guarantee.
- b. If the successful bidder backs out after the award of contract or violates any of the clauses of the contract to be entered into with it, the Performance Guarantee along with Earnest Money would be liable to be forfeited and the bidder shall be debarred from further tendering in SAMEER-CEM.
- c. After the expiry of the AMC period, the performance Guarantee shall be returned subject to there being no claims.
- d. The EMD shall be forfeited if the successful bidder withdraws after giving the supply order or defaults in performance of its obligations under the contract.

**13. Payment Terms:**

- a. 100% Payment will be paid to the vendor after successful delivery, installation, testing and commissioning of the supplied material at desired locations at Taramani & Perungudi campus, Chennai. The payment shall be made after submission of invoice in triplicate in the name of SAMEER-Centre for Electromagnetics along with the satisfactory installation and commissioning report duly signed by the concerned officer.
- b. The AMC payment will be processed after completion of each quarter as per the proportionate amount for each quarter after the submission of the pre-receipted bill in triplicate along with the call reports and preventive maintenance report undertaken for the quarter.



#### 14. General Terms and Conditions

- a. Unit Price must be mentioned in INR inclusive of transportation cost.
- b. MAF (Original Manufacturer Authorization Form) of camera, DVR should be submitted along with the technical bid.
- c. Product Quoted (CCTV, DVR and software if any) should be of same make.
- d. The requirement/installation of CCTV Cameras may increase or decrease as per the needs of the SAMEER-CEM and the bidder should have the capacity to provide more CCTV cameras/accessories as and when required by SAMEER-CEM for installation.
- e. **Warranty and Annual Maintenance:**
  - i. The entire CCTV System supplied and installed should be under **onsite warranty of two years** against all types of defects and deficiencies from the date of handing over of the system to SAMEER-CEM. Any defects found in the product/sub-product within the warranty period of 2 years shall be rectified/replaced by the vendor free of cost. During this period of warranty, servicing at quarterly interval or earlier without any additional cost besides attending to call back services in case of break down shall be carried out free-of-cost. This includes replacement of parts and spare parts and any number of break down calls.
  - ii. After lapse of warranty offered by Manufacturer, CCTV camera with all its accessories will be on **two years AMC**, and the bidders should quote the rate in price bid. AMC charges will be paid to the successful bidder on quarterly basis after deduction of applicable taxes.
  - iii. AMC shall be on-site comprehensive maintenance, which includes preventive as well as corrective maintenance. The firm awarded with the maintenance contract shall carry out preventive maintenance of equipment on quarterly basis/ as per requirement and shall maintain the proper record thereof.
  - iv. The comprehensive maintenance shall be carried out at the premises of SAMEER-CEM on all working days during office hours or even beyond office hours or on holidays depending upon exigency of work as and when so required. In case, the service provider feels that the equipment cannot be repaired at site, they will carry and deliver the equipment at their own cost and get it repaired within 24 hours. The firm shall maintain proper service call sheets which will be duly signed by the Engineer and the concerned official of the department.
  - v. The agency shall ensure that the equipment is retained in its original or higher configuration and form. In the event of any downward alteration to the equipment by the agency or any attachment made thereto, the agency shall pay

for any repair/replacement and adjustments required to restore the equipment to its original state. The faulty equipment parts replaced must be new and equivalent in performance of existing parts.

- vi. It shall be ensured that all the equipment's are operational under controlled power supply and all defective equipment if any shall be rectified/replaced without any additional cost to the SAMEER-CEM. The vendor will not raise any condition with regard to the working environments including voltage, earthing etc for equipment covered under AMC.
- vii. AMC shall cover each and every part of CCTV camera and accessories including plastic body and parts, replacement of any part necessary for keeping the CCTV system active and free from any defects/disturbance, any unscheduled call for corrective and/or preventive maintenance services, taking appropriate measures/steps in time to set right the malfunctioning of the CCTV of the system. Maintenance of the CCTV surveillance system includes Camera Visibility Test, DVR Recording, DVR Recording Test, DVR Settings Verification, and Disk Error Check. Replacement of CCTV Parts, SMPS for CCTV and UPS.
- viii. The faulty equipment parts replaced must be new and equivalent in performance of existing parts. Replacement of cable/other equipment will not be covered in the event of fire/Natural calamity, vandalizing of equipment and its accessories.
- ix. The firm will ensure 100% uptime for the entire equipment failing which compensation of Rs.200/- per day shall be sought /collected or adjusted from payments to be made.

**15. Defect liability period:** The defect liability period shall be 24 (Twenty four) months from the date of completion of the work. The successful bidder shall be responsible for all defects in the material supplied like defective workmanship, use of defective materials, breakage, etc. for a period of 24 (Twenty four) months from the date of completion of the job. The successful bidder shall rectify the defects/defective parts within 48 hrs from the time of lodging the complaint up to the satisfaction of the competent authority of SAMEER-CEM or otherwise SAMEER-CEM shall have the right to rectify the defect at the successful bidder's own risk and the cost of which will be adjusted from the security Deposit. Decision of SAMEER-CEM authority in this regard shall be final and binding on the successful bidder.

**16.Cancellation by Default:**

- a. SAMEER-CEM may without prejudice to any other remedy for breach of terms and conditions of the RFP and the contract (including forfeiture of Performance Security) send a written notice to the vendor and thereby, terminate the work / task in whole or in part as per the terms and conditions specified in the contract with successful bidder/vendor.
- b. If the vendor fails to deliver or complete the job assigned in the terms and conditions within the time period (s) specified in the Tender Document which shall be an essence of the contract.
- c. If the vendor fails to perform any other obligations under the terms and conditions as specified in the contract.

**17.Blacklisting:**

Company/Firm blacklisted by Govt./PSU/Corporate organization are not eligible to participate in the bidding process. If at any stage of bidding process or during the currency of work order, such information comes to the knowledge of SAMEER-CEM, SAMEER-CEM shall have right to reject the bid or cancel the work order, as the case may be, without any compensation to the bidder. The bidders have to be submitted an undertaking for not being black listed by any Govt./PSU/Corporate organization.

**ANNEXURE-II****Scope of Work**

- a. Installation of 20 cameras at desired locations covering the entire campus of Taramani & Perungudi.
- b. Supply of items mentioned in BoM, F.O.R destination.
- c. The equipment/materials should be under 2 year's comprehensive warranty from the date of successful delivery & installation.
- d. All the products and their warranty certificates shall be issued in the name of SAMEER-CEM
- e. All cameras should be IP based.
- f. The IP Based Video Surveillance system shall be a Hybrid System with distributed architecture having control station at the Control Office & Viewing facility at the security cabin/Installation In-charge room / Any other area envisaged.
- g. A network, comprising a 16-port switch connected with CAT6, shall be laid for transmission of signal from cameras to the Control room. The Main Control

- room shall be for Video Storage. The Sub-Control Station at Security Guard room shall have a monitor for monitoring the Video only.
- h. The proposed Solution should allow SAMEER-CEM officials to locally and centrally monitor its facilities from a remote location on a Portable/Fixed personal computer monitor.
  - i. The Solution should capture, store, and analyse digital video images to enable central monitoring, increase operational efficiency, reduce liability, minimize risk and secure people & property.
  - j. After commissioning the Video surveillance system, the same shall be demonstrated for all its capabilities to make them familiar with the system on mutually agreed dates.
  - k. Once the supply order is placed, it will be the vendors' responsibility to make the CCTVs Surveillance System functional. Any additional cost incurred for completing the work and for which the vendor has not bid at the time of submission of the final offer will be borne by the vendor.
  - l. The CCTVs Surveillance System need to be functional on 24x7 basic i.e. 24 hours all the days and need to have at least 30 days data storage capacity for all CCTVs.
  - m. Completion Certificate: Work Completion certificate shall be issued only after completion of work in all respect as per RFP and to the entire satisfaction of SAMEER-CEM.
  - n. **Training:** Upon completion of the installation & commissioning the Successful Bidder shall provide the hands-on training on the installed equipment to the concerned officials along with the training materials on the equipment installed at SAMEER-CEM.
  - o. **Equipment Warranty Period:** All the equipment supplied against this RFP shall have warranty for a period of Two (2) years from the date of installation and commissioning.
  - p. Bidders should share all the relevant firmware/OS/Patches etc. as and when they are released by OEM during entire warranty period at no cost to SAMEER-CEM.
  - q. The vendor will liaison on behalf of SAMEER-CEM, with other different OEMs for repairing of equipment(s) and all other accessories during warranty period.
  - r. Annual Maintenance of the entire system after the warranty period will be undertaken as per the terms and conditions mentioned in the tender and any other condition agreed upon as per the terms and condition.

**BILL OF MATERIALS AND ITS SPECIFICATION**

<b>S.No</b>	<b>Description</b>	<b>Make</b>	<b>Unit</b>	<b>Qty</b>
<b>Supply Components</b>				
<b>1</b>	IP Based Camera as per specification 5 MP IR fixed Network Camera (Indoor-6 Nos. & Outdoor-14 Nos.)	Hikvision/Bosch/Pelco	<b>No.</b>	20
<b>2</b>	16 Channel Network Video Recorder as per Specification	Hikvision/Bosch/Pelco	<b>No.</b>	2
<b>3</b>	SATA 4 TB HDD	Seagate	<b>No.</b>	2
<b>4</b>	POE 16-Port Network Switch	Hikivision/Broket/Cisco	<b>No.</b>	2
<b>5</b>	CAT 6 Cable(indicative Quantity)	Hikvision/dlink/Schinder	<b>Mtrs</b>	610mtrs
<b>6</b>	Supply of 1" PVC Pipe(Indicative Quantity)	Reputed Make	(actuals)	
<b>7</b>	Supply of Power Cable(Indicative Quantity)	Reputed Make	<b>Mtrs</b>	
<b>8</b>	Supply of HDMI Cable	Reputed Make	<b>No.</b>	4
<b>9</b>	Supply of 6U RACK for NVR & Accessories	Dynamic/Comrack/APW	<b>No.</b>	2
<b>10</b>	Supply of 2 KVA Uninterrupted Power Backup System (UPS)	Microtek, APC,Luminous, Numeric or equivalent	<b>No.</b>	2
<b>11</b>	Mounting Poles for outdoor Camera (GI pipe)		<b>No.</b>	4
<b>12</b>	Television 32 inch LED		<b>No.</b>	4

ANNEXURE-IIITECHNICAL BIDTECHNICAL SPECIFICATION FOR CAMERA:

	<b>Technical Specification</b>	<b>Compliance (Yes/No)</b>	<b>Reasons for deviations (If any)</b>
<b>Minimum Resolution (colour)</b>	Full HD Resolution 2944 × 1656 or better (for outdoor) 1920 × 1080 or better (for indoor)		
<b>Frame Rate</b>	25 Fps (min. In All Resolution)		
<b>Image Device</b>	1/3 Inch CCD Or Better		
<b>Compression</b>	(H.265+/H.264/MJPEG/MPEG 4 (part-2) Support		
<b>Streaming:</b>	Dual Compressed Stream		
<b>Audio:</b>	Full Duplex, Audio Input / Output 1 Ch		
<b>Alarm:</b>	1 Digital Input, 1 Relay Output		
<b>Audio Compression:</b>	G.726 Or G.711 Or A-law Or U-law Or Better		
<b>Pre / Post Alarm Buffer</b>	Shall be present		
<b>ID / Password: Multi Level User ID / Password</b>	Shall be present		
<b>Encryption:</b>	HTTP (SSL / TSL)		
<b>Physical Layer:</b>	10 / 100 Base Tx Ethernet		
<b>Protocol (Minimum TCP/IP, HTTP, RTP, RTSP, (additional Protocols, If Any May Also Be Indicated)</b>	(Minimum TCP/IP, HTTP, RTP, RTSP		
<b>IP Support</b>	Both (Static & Dynamic)		

<b>Remote Administration (Remote Configuration And Status Using Web Based Tool)</b>	Shall be present		
<b>System Update (Remote System Update Over Network Using Web Client)</b>	Shall be present		
<b>PC Client (PC Application Client With A Channel Recording Feature Support)</b>	Shall be present		
<b>Web Client (Viewer Through HTTP (min.) System Configuration Setting/Streaming)</b>	Shall be present		
<b>Simultaneous Connection</b>	Min 10 users		
<b>Lens Type :</b>	3.6 To 9 Mm Verifocal Or Better		
<b>Signal To Noise Ratio</b>	>=60 db		
<b>Auto Exposure</b>	Automatic Level Control		
<b>Minimum Illumination:</b>	Camera Shall Be Supplied With IR LED To Ensure Capturing Of Image Even At 0 Lux Illumination		
<b>Signal Process:</b>	Digital Signal Process		
<b>Motion Detection Zones / Privacy Zones</b>	3 Zones		
<b>Auto Gain Control : On/Off Selectable</b>	Shall be present		
<b>Back Light Compensation</b>	Shall be present		
<b>Electronic Shutter :</b>	1/50 To 1/1000 Or Better		
<b>White Balance :</b>	Indoor/Out Door/Manual Selectable		
<b>Day And Night :</b>	As Per Minimum Illumination Specified		
<b>Iris Control For Verifocal Lens</b>	Shall be present		

<b>Shall Be Be IPV6 Ready</b>	Yes		
<b>Operating Temperature</b>	-10 To 50 Degrees C& 40 Deg At 95% RH		
<b>Housing Construction For Indoor</b>	Plastic		
<b>Housing Construction For Outdoor With IP-66 Enclosure Protection</b>	Plastic		
<b>Protocol</b>	ONVIF		
<b>Mounting Bracket</b>	Wall mounting for indoor and Pole mounting for outdoor		
<b>Warranty</b>	2 Years		
<b>Accessories</b>	Suitable Adapter Shall Be Supplied To Make The Equipment Work On 230 V + Or - 10 %, 50 Hz		

#### **TECHNICAL SPECIFICATION FOR CHANNEL NETWORK VIDEO RECORDER:**

<b>Features</b>	<b>Technical Specification</b>	<b>Compliance (Yes/No)</b>	<b>Reasons for deviations (If any)</b>
IP Video Input:	16 Ch		
Two-way Audio:	1-ch, RCA (2.0 V <sub>p-p</sub> , 1kΩ)		
Incoming bandwidth	Min 160 Mbps		
Outgoing bandwidth	Min 80 Mbps		
Resolution	(H.265+/H.264/MJPEG/MPEG-4 (part-2) Support		
Remote connection	128		
Live view / Playback resolution	Up to the resolution of 5 megapixels.		
HDMI/VGA output	Simultaneous HDMI and VGA outputs at up to 1920×1080 resolution.		
Synchronous Playback:	16 ch		



POE Interfaces	16 independent 100 Mbps PoE network interfaces		
POE Supported Standard:	AF and AT		
SATA	4 SATA interfaces for 2 HDDs		
Capacity	Up to 4TB for each disk		
USB interface	Min 1 USB 2.0 and 1 USB 3.0		
Network interface	2 RJ-45 10/100/1000 Mbps self-adaptive Ethernet interface		
Network protocols	TCP/IP, DHCP, DNS, DDNS, NTP, SADP, SMTP, NFS, iSCSI, UPnP™, HTTPS		
Alarm In/out-	4-ch/1		
Working Temperature:	-10 °C to +55 °C		

- I. MAF (Manufacturer Authorization Form) of Camera, DVR should be submitted along with the technical bid in Original
- II. Product Quoted (CCTV, DVR and software if any) should be of same make
- III. The prospective bidders are requested to visit the site (both campuses) to have understanding about the site before submitting the bid.

SIGNATURE WITH SEAL OF BIDDER

NAME IN BLOCK LETTERS: \_\_\_\_\_

Company Name with Full Address: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

## ANNEXURE-IV

## PRICE BID

To

The Programme Director  
 SAMEER-Centre for Electromagnetics  
 CIT Campus, 2<sup>nd</sup> Cross Road  
 Taramani, Chennai - 600 113

**Subject : Price Bid for Supply, Installation, Testing and Commissioning of IP Based Video surveillance System (CCTV) at SAMEER-CEM, Taramani & Perungudi Campus**

Name of the Bidder: \_\_\_\_\_

Address for Correspondence: \_\_\_\_\_

I/we hereby submit the commercial bid for **Supply, Installation, Testing and Commissioning of IP Based Video surveillance System (CCTV) at SAMEER-CEM, Taramani & Perungudi Campus, Chennai - 113** as per the Scope of work given in this tender document within the time specified and in accordance with the terms and conditions and shall be bound by the stipulation made by me in the bid.

S. No	Description	Make	Unit	Qty	Unit Rate	Amount Qty (Unit Rate)	Taxes	Total Cost
<b>Supply Components</b>								
1	Supply of IP Based Dome Camera as per specification (5 <i>MP IR fixed Network Bullet Camera</i> )	Hikvision/ Bosch/ Pelco	No.	20 (14 Nos. Outdoor and 6 Nos. Indoor)				
2	Supply, installation, testing and commissioning of 16 Channel Network Video Recorder as per Specification	Hikvision/ Bosch/ Pelco	No.	2				

3	Supply of SATA 4 TB HDD.	Seagate	No.	2				
4	Supply of POE 16-Port Network Switch	Hikivision/B roket/Cisco	No.	2				
5	Supply of CAT 6 Cable(indicative Quantity)	Hikvision/dlink/Schinder	Mtrs	610 mtr				
6	Supply of 1" PVC Pipe(Indicative Quantity)	Reputed Make	Mtrs	For 1mtr				
7	Supply of Power Cable(Indicative Quantity)	Reputed Make	Mtrs	For 1mtr				
8	Supply of HDMI Cable	Reputed Make	No.	4				
9	Supply of 6U RACK for NVR & Accessories	Dynamic /Comrack /APW	No.	2				
10	Mounting Poles for outdoor Camera (GI pipe)		No.	4				
11	Supply of 2 KVA Uninterrupted Power Backup System (UPS)	APC,Luminous, Numeric, Microtek, or equivalent	No.	2				
12	Television 32 inch (Reputed Brand)		No	4				

Service Components								
1	Installation, Testing & Commissioning Charges of IP Cameras		Job					
2	Installation, Testing & Commissioning Charges NVR Configuration		Job					

3	Installation, Testing & Commissioning of SATA 4 TB HDD.		Job					
4	Installation, Testing & Commissioning of POE 16-Port Network Switch		Job					
5	installation, testing and commissioning of 6U wall Mounted Rack		Job					
6	Laying and termination of Cat-6 Cable with accessories (Per meter)		Job					
7	Laying and termination of Power Cable with accessories (Per meter)		Job					
8	Laying and termination of PVC Pipe with accessories (Clamps, Bends, etc..)		Job					
9	Mounting Poles for outdoor Camera (GI pipe (Including masonry charges)		Job					
	<b>AMC of CCTV Surveillance Equipment, accessories &amp; Cable for First Year post-warranty</b>							
	<b>AMC of CCTV Surveillance Equipment, accessories &amp; Cable for Second year post-warranty</b>							
	<b>Grand Total</b>							
	<b>IN WORDS (Rupees</b>							

1. The rate should not be provided as a percentage figure but in absolute Indian Rupees.
2. The rate quoted must be reasonable and valid for the period of contract from the date of opening of financial bid.

SIGNATURE WITH SEAL OF BIDDER

NAME IN BLOCK LETTERS: \_\_\_\_\_

Company Name with Full Address: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

## ANNEXURE-V

## BIDDER'S PARTICULARS

S.No	Particulars	Details
1	Name of the Bidder	
2	Full Address of the Bidder	
3	Full Address of operating Branch/Office/Service Centre at Chennai	
4	Name of the Authorized Signatory	
5	Name & address of the officer to whom all references shall be made regarding this tender	
6	Telephone	
7	Fax No	
8	E-mail	
9	Mobile	
10	Date of Incorporation of Company (Attach ROC Registration certificate, Partnership Deed or any other relevant legal document)	
11	Details of Earnest Money Deposit, if not exempted	DD No. _____date _____ of Rs. 18,000/- drawn on Bank
12	Bidder's Annual Turnover of the for the last three Financial years ending 31st March 2018	<b>FY 2017-18</b> FY 2016-17 FY 2015-16
13	Has the bidder completed at least three work orders amounting to Rupees 5 Lakhs each pertaining to supply and installation of CCTV along with other accessories during the last two years up to 31/03/2018. <b>If YES, submit the proof of self- attested copies of the work orders and completion certificates for the same</b>	<b>YES/NO</b>

Signature of the Bidder

Name \_\_\_\_\_

Designation \_\_\_\_\_

Company \_\_\_\_\_

Date \_\_\_\_\_

## ANNEXURE-VI

## SELF-DECLARATION - NO BLACKLISTING

Date

The Programme Director

SAMEER-Centre for Electromagnetics  
 CIT Campus, 2<sup>nd</sup> Cross Road  
 Taramani, Chennai - 600 113

Dear Sir/Madam,

**Ref: Tender for Supply, Installation, Testing and Commissioning of IP Based Video surveillance System (CCTV) at SAMEER-CEM, Taramani, Perungudi campus, Chennai**

In response to the **Tender for Supply, Installation, Testing and Commissioning of IP Based Video surveillance System (CCTV) at at SAMEER-CEM, Taramani, Perungudi campus, Chennai.** I/ We hereby declare that presently our Company/ firm \_\_\_\_\_ is having unblemished record and is not declared ineligible for corrupt & fraudulent practices either indefinitely or for a particular period of time by any State/ Central Government/ PSU/ Autonomous Body.

We further declare that presently our Company/ firm \_\_\_\_\_ is not blacklisted or debarred and not declared ineligible for reasons other than corrupt & fraudulent practices by any State/ Central Government/ PSU/ Autonomous Body on the date of Bid Submission including violation of relevant labour laws.

If this declaration is found to be incorrect then without prejudice to any other action that may be taken, our security may be forfeited in full and the bid, if any to the extent accepted may be cancelled at any stage and the contract may be terminated and we shall be barred from bidding in future against any other tender for a period of 2 years and be also liable to pay compensation, and difference of price as per clause of the RFP and the contract.

Thanking you,

Yours faithfully,

Place:

Signatures \_\_\_\_\_

Date:

Name \_\_\_\_\_

Seal of the Organization \_\_\_\_\_