

यूको बैंक



UCO BANK

(भारत सरकार का उपक्रम  
सम्मान आपके विश्वास का)

A Govt. of India Undertaking)  
Honours your trust

यूको बैंक, अंचल कार्यालय, हुगली -712 258  
UCO Bank, Zonal Office, HOOGHLY- 712258

DATE-10.09.2015

**Invitation of Bids For Supply, New Installation of CCTV and Annual Maintenance Contract of existing CCTV systems at the Bank Branches under HOOGHLY Zone.**

1. Applications are invited from reputed Companies /Firms for Supply, Installation and Annual maintenance Contract of existing CCTV systems in the Branches under HOOGHLY Zone of UCO Bank, West Bengal comprising of (HOOGHLY and Paschim Midnapore Districts). Only those companies and firms who fulfill following eligibility criteria will be considered for empanelment:-
  - a) Reputed service providers specializing in providing and installation of CCTV Systems for at least last 5 years in the field as on 1<sup>st</sup> May, 2015.
  - b) Ability to undertake the work and maintenance of all Branches throughout the HOOGHLY zone.
  - c) Ability to provide CCTV systems as per technical specifications available at Appendix-III & IV of this advertisement.
  - d) Ability to commence service within 15 days from date of placement of order.
2. The vendor should meet the eligibility criteria, General requirements, and other mandatory requirements as per details available at Appendix- I & II of this advertisement.
3. The system should meet with technical specification and details given in Appendix- II & III.
4. Empanelment of vendors may be restricted to maximum 10 vendors in accordance with merit towards fulfillment of eligibility criteria in a descending order specified in Appendix-I & II and fulfillment of technical specification compliance given in Appendix- III & IV.
6. 10% of the payment will be retained by Bank for 2 Year (warranty period) from the date of Installation as defect liability period money.
7. The vendor has to give an undertaking that they will give a performance Bank guarantee of Rs.2,00,000/- (Rs.Two lakh) for five years for the AMC of existing CCTV systems installed at Branches of HOOGHLY Zone, and this performance guarantee will be in vogue in case of new CCTV installations and their AMC after the expiry of warranty period of two years, and this undertaking has to be enclosed with the eligibility bid.
8. The vendor has to give an undertaking that:-
  - I) The Hard Disk they will supply is a Surveillance Hard Disk
  - II) DNS software & Remote Health Monitoring Software has to be provided free of cost by the Vendor.
  - III) The above stated both the undertakings have to be enclosed with the eligibility bid.
9. Applications are to be sent to the undersigned in two sealed covers super scribed as Part-I (eligibility bid), Part-II(Technical Bid) & Part-III (Financial Bid) with vendor's complete address and contact number on or before 17.00 hrs on 05<sup>th</sup>October 2015 as under:
  - (a) Part I. Eligibility bids- to include profile of the company.
    - 1) List of major existing clients, registered number and sales tax details etc. as per Appendix-I & II point wise. Attach document wherever required.
    - 2) EMD shall be Rs-25,000/-(Twenty five thousand only) to be deposited along with tender document through Demand Draft, Bankers Cheque or Pay Order in favour of UCO Bank, Zonal Office, HOOGHLY.

(b) **Part II. Technical bids** -to meet the technical specification:

- 1) Compliance of technical specification of CCTV Systems given in **Appendix -III & IV** point wise.
- 2) The system and all the parts should meet with standard stipulated as mentioned in technical specification.

**Part III Financial bids should be:** - Net rates (inclusive of all taxes, levies, installation, handling & maintenance charges).

(Vendors may be asked to submit Copy of certification of equipment i.e. UL/CE/FCC, copy of document of authorization from manufacturer to Indian dealers and from Indian dealer to supplier undertaking that the cards supplied are original)

10. **EMD shall be Rs-25,000/-(Twenty five thousand only)** to be deposited along with tender document through Demand Draft, Bankers Cheque or Pay Order in favour of **UCO Bank, Zonal Office, HOOGHLY**. EMD is liable to be forfeited in the event of:
  - i. Revocation of the tender or increasing the rates after opening of the tender and before the expiry of the validity of tender.
  - ii. Refusal of the vendor/Contractor to execute the agreement or not complying with the contractual terms & conditions after awarding of contract.
9. The interested vendors may obtain the tender papers from under mentioned Bank address, or can be downloaded from our Banks website [www.ucobank.co.in](http://www.ucobank.co.in). For any other queries, vendors may contact the undersigned on working days between 11 A.M. to 4 P.M.
10. Part (I) Eligibility bid shall be opened on **06<sup>th</sup>October 2015 at 2.00 hrs** and Part (II) Technical bid will be opened only if Bank is satisfied with Part I. Opening of Technical bid & Live demonstration of the system will be held on **08<sup>th</sup>October 2015 at 11.00 hrs**. Part III (Financial bid) of empanelled vendors will be opened on **09<sup>th</sup>October 2015 at 2.00 hrs**, only if Bank is satisfied with Part-I, Part-II and satisfactory live demonstration of the system as per technical specification.
11. Bank reserves the right to reject any/all bids without assigning any reason thereto.
12. Bank is not responsible for late receipt of application or its damage in transit.
13. Any dispute arising in this matter will be settled in the jurisdiction of HOOGHLY, West Bengal.

**ZONAL MANAGER**  
**UCO Bank, Zonal Office,**  
**HOOGHLY 21, New G.T.Road (2<sup>nd</sup> Floor),**  
**2<sup>nd</sup> Floor, Uttarpara HOOGHLY – 712258**  
**E-mail: [zo.hooghly@ucobank.co.in](mailto:zo.hooghly@ucobank.co.in)**  
**Phone no: 033-26640189**  
**Fax no: 033-2664 0187**

ELIGIBILITY CRITERIA OF VENDORS FOR SUPPLY, INSTALLATION AND MAINTENANCE OF  
CCTV SYSTEM

1. Vendor providing CCTV systems should have been in business for the last five years as on 01.08.2015.
2. Vendor providing CCTV system should have adequate technician and local service center at HOOGHLY / Paschim Midnapore to attend and repair the complaint and breakdown within 24 hour in HOOGHLY District & 48 hours in the District Paschim Midnapore of Give the exact number of technician working in your concern.
3. Vendor should have a Certificate of Registration with Registrar of Companies or Registrar of Firms or have a letter of proprietorship.
4. Vendor should provide the latest Income Tax Assessment Order and PAN/ TAN Number.
5. Vendor should provide the latest Audited Balance Sheet Preceding 3 Years.
6. Vendor should provide total annual turnover for last 3 years.
7. Vendor should provide name and address of banker with **solvency certificate** not older than one year.
8. Vendor should have a local Office in the state of West Bengal preferably at HOOGHLY / Paschim Midnapore. Give postal address and landline contact number.
9. Vendor should be registered under the appropriate authority for service tax.
10. **The vendor has to give an undertaking that they will give a performance Bank guarantee of Rs.2,00000/- (Rs.Two lakh) for five years for the AMC of existing CCTV systems installed at Branches of HOOGHLY Zone, and this performance guarantee will be in vogue in case of new CCTV installations and their AMC after the expiry of warranty period of two years.**
11. The vendor has to give an undertaking that
  - I) **The Hard Disk they will supply is a surveillance Hard Disk.**
  - II) **DNS software & Remote Health Monitoring Software** has to be provided free of cost by the Vendor.
12. Vendor should have supplied CCTV system to Nationalized/ Private Banks in the state of West Bengal.
13. **The vendor has to give an undertaking that, they are willing to carry out the AMC job of existing CCTV systems installed earlier and the AMC job of new CCTV systems to be installed (after the expiry of warranty period of two years), at a uniform price for both the AMCs.**
14. **The vendor has to provide the Manufactures authorization form (MAF) from the OEM and Back to Back support certificate from the dealer/distributor in India i.e. for HIKVISION : M/S Prama Hikvision India Pvt Ltd and for DAHUA: from M/S Aditya Infotech Ltd.**
15. **The Hard Disk capacity to be calculated for 90 days storage capacity. D1 quality footage with 700TVL camera, recording quality with 1024 bit rate & 25fps will require approximately 6 TB HDD for 90 days recording.**

**APPENDIX-II**

<b>General Requirements</b>		<b>Vendors compliance</b>
1	Warranty for two year	
2	Post warranty comprehensive AMC for 5 years	
3	<b>Support for retrieval of image for dispute resolution at no additional cost</b>	
4	<b>Necessary software for retrieval of Data from the DVR Hard disc at no additional cost</b>	
<b>Other mandatory requirements</b>		
1	All imported products, e.g. Cameras, DVRs should carry quality certification i.e. CE / FCC / UL. (Copies to be enclosed) and all Cable and PVC conduit i.e. ISI Mark (Should be marked as Annexure-1)	
2	Products should be from ISO certified Manufacturer & Supplier. (Copies to Be Enclosed) (Should be marked as Annexure-2)	
3	Copies of Back-To-Back Authorized Dealership Certificates to Be Enclosed(should be marked as annexure-3)	
4	Local Address & Telephone Number of All Service Centers should be provided (Should be marked as Annexure-4).	
5	Copies of ST / CST / VAT / Regn. No. (Should be marked as Annexure-5)	
6	Copy of PAN No. Registration (Should be marked as Annexure-6)	
7	Brochures / Technical Data Sheets of products offered (Should be marked as Annexure-8.1,8.2,8.3 etc)	
8	<b>Eligibility criteria of vendors(mentioned in Appendix- I) in annexure (10,11,13 etc)</b>	

**Date**

**Signature and Seal of the vendor**

**MAKE & MODELS OF CCTV COMPONENTS APPROVED BY HEAD OFFICE:-****DVRs:-**

SI	Product Name	Models	Make
1	32 Channel DVR	DS 8132HWSI-SH	HIKVISION
2	16 Channel DVR	DS 8116HWI-ST	HIKVISION
3	08 Channel DVR	DS 7308HWI-SH	HIKVISION
4	04 Channel DVR	DS 7304HWI-SH	HIKVISION
5	04 Channel ATM DVR	DS-8104HWLI-ST	HIKVISION

SI	Product Name	Models	Make
1	32 Channel DVR	DH-DVR3204HF-S1	DAHUA
2	16 Channel DVR	DH-DVR1604HF-S1	DAHUA
3	08 Channel DVR	DH-DVR0804HF-L1	DAHUA
4	04 Channel DVR	DH-DVR0404HF-S1	DAHUA
5	04 Channel ATM DVR	DH-DVR0404 AH-V(D)	DAHUA

**CAMERAS:-**

SI No	Product Name	Models	Make
1	DOME IR, VERIFOCAI VANDALPROOF CAMERA	DS-2CC52A1P-VPIR2	HIKVISION
2	BULLET IR, VERIFOCAI, WEATHER PROOF CAMERA	DS-2CC11A2P-VFIR3	HIKVISION
3	PINHOLE CAMERA	DS-2CC51A2P(N)-DG1	HIKVISION

SI No	Product Name	Models	Make
1	DOME IR, VERIFOCAI VANDALPROOF CAMERA	DH-CA-VMS35V2N3-V2	DAHUA
2	BULLET IR, VERIFOCAI, WEATHER PROOF CAMERA	DH-CA-BTS35V2A4-V3	DAHUA
3	PINHOLE CAMERA	DH-CA-P470CP-AV3	DAHUA

**Monitor:** LG/SAMSUNG

**Note:-**

1. Henceforth, only the above mentioned Make & Model of CCTV and its components to be installed in the branches.
2. They will provide the Manufactures authorization form (MAF) from the OEM and Back to Back support certificate from the dealer/distributor in India i.e. for **HIKVISION : M/S Prama Hikvision India Pvt Ltd** and for **DAHUA:** from **M/S Aditya Infotech Ltd.**
3. The Hard Disk capacity to be calculated for 90 days storage capacity. D1 quality footage with 700TVL camera, recording quality with 1024 bit rate & 25fps will require approximately 6 TB HDD for 90 days recording.

**Date**

**Signature and Seal of the vendor**

## Appendix –A

### Manufacturer's Authorization Form (MAF)

No. \_\_\_\_\_

dated \_\_\_\_\_

**Zonal Manager,  
UCO Bank,  
Zonal Office** \_\_\_\_\_

**Dear Sir,**

Subject: \_\_\_\_\_

Ref No. :

We \_\_\_\_\_ who are established and reputable manufactures of \_\_\_\_\_ having factories at \_\_\_\_\_ and \_\_\_\_\_ do hereby authorise M/s \_\_\_\_\_ (Name and address of Vendor /Dealer) to offer their quotation, negotiate and conclude the contract with you against the above invitation for RFP offer.

We hereby extend our full guarantee and warranty as per terms and conditions of the RFP and the contract for the equipment and services offered against this invitation for RFP offer by the above firm and confirm that back to back Spare & Skill Arrangement has been made with M/s \_\_\_\_\_ for providing support services to UCO Bank under this contract.

Yours faithfully,

Authorized Signatories  
(Name & Designation)  
Date:

For and on behalf of M/s \_\_\_\_\_  
(Name of manufactures)

Note:

1. This letter of authority should be on the letterhead of the manufacturing concern and should be signed by a competent person of the manufacturer.
2. Such MAF for all items offered for which the vendor is not an OEM, should be attached.

Date:

Place:

Appendix – A1

**(To be submitted by OEM/Distributor)**

No. \_\_\_\_\_

Date: \_\_\_\_\_

**Zonal Manager,**  
**UCO Bank,**  
**Zonal Office** \_\_\_\_\_

Dear Sir,

Subject : \_\_\_\_\_

Ref. No. : \_\_\_\_\_

We \_\_\_\_\_ who are established and reputable manufactures/distributor of \_\_\_\_\_ having factories/Office at \_\_\_\_\_ do hereby certify that all the components / parts / assembly / software used in the Standalone DVR based CCTV Systems i.e. DVR, Camera, Monitor etc, are original with new components / parts / assembly / software and that no refurbished / duplicate / second hand components / parts / assembly / software are used or would be used.

We hereby extend our full guarantee and warranty as per terms and conditions of the RFP and services, offered against this invitation by us. We also confirm that back to back spare & skill arrangement has been made with for providing support services to UCO Bank under this contract.

Yours faithfully,

Authorized Signatories  
(Name & Designation)  
Date:

For and on behalf of M/s \_\_\_\_\_  
(Name of manufactures)

Note: This letter of authority should be on the letter head of OEM/Distributor and should be signed by a competent authority of the agency.

**Date**

**Signature and Seal of the vendor**



## APPENDIX – 'III'

Sl No	<b><u>TECHNICAL SPECIFICATION FOR 8,16 &amp; 32 CHANNELS STANDALONE DVR</u></b>	<b>VENDOR'S COMPLIANCE</b>
1	Operating System: Embedded Linux .	
2	DVR should be system embedded with <b>H.264</b> video compression algorithm.	
3	Video Frame rate/speed:- 8/16/32 Channel DVR :- 240/480/960fps-NTSC; 200/400/800 fps -PAL.	
4	Simultaneous Live viewing, Remote viewing, Backup, recording and Playback functions: <b>Pentaplex.</b>	
5	Display on line resolution / Preview resolution 976*576 PAL	
6	Multiple Viewing Option (VGA/BNC).	
7	Video Inout / Loop out: <b>8/8, 16/16 &amp; 32/32</b>	
8	Video Output: 1 composite, 1 HDMI, 1 VGA, 1 Spot.	
9	Audio in / out: minimum <b>4/1</b>	
	Video display:-for 8 CH-1,4,6,8; for 16 CH-1,4, 8,13,16 ; for 32 CH-1,4,8,10,13,16,25,32	
10	Recording Rate: PAL: Real Time (25 fps per channel),WD1 with all Channels recording and playback both. Player software auto download with backup on DVD.	
11	System should be robust and capable of working in 24*7 environment.	
12	System should be scalable / upgradeable.	
13	Storage Media: Built in Recording up to 90 days in real Time (25 FPS per channel)	
14	Provision for minimum 4 SATA slots for 3 HDD + DVD – RW (each SATA slot should support upto 4 TB HDD capacity).For 16/32 Channel : 8 SATA slots	
15	Data storage for 90 days. Data recycling on FIFO basis.	
16	Network Interface: Ethernet (RJ-45, 10/100 Base-Tx), External Model Via RS-232 Port, RS 485 port.	
17	Support Multi Zone Motion Detection.	
18	Support multilevel Pass Word For Operation, setup and remote Access.	
19	Support Waterproof marking to ensure tamper proof recording of images.	
20	Support tampering detection alarm function to indicate tempering of DVR / Cameras. Visual indication for local faults, disc full, malfunction etc.	
21	Support video signal loss alarm. System should do health check of all cameras.	
22	Support position configurable to OSD and LOGO.	
23	Support Real Time and Motion Based Recording.	
24	Support HDD Sleep Mode.	
25	Support FAT <b>32</b> File System.	

26	Support USB flash dish, USB DVD-RW for backup with built in DVD-RW.	
27	Support playback in various modes fast ,slow ,pause, forward, backward, frame-by-frame.	
28	Support TCP, UTP, RTP, PPPOE, Multicast, DHCP etc.	
29	Connectivity: Provision for ADSL, PSTN, Leased Line, Broad Band.	
30	Remote play back, Download the recorded files in DVR.	
31	Remote viewing through Mobile phones / and through any other PC with IP (RHMS).	
32	System should have file player software so that back up can be auto played on any PC Using Windows Media Player.	
33	Vender Should provide Central Monitoring Station (CMS) Software <b>free of cost</b> and this software should be compatible to CMS software of third party, as well. The system should be capable of running Remote Health Monitoring System.	
34	Power AC-100/240 V & 50 / 60 Hz.	
35	DVR housing with wall mounting 4U rack and tamperproof locking arrangement.	
36	System Should carry UL,FCC & CE certification.	
37.	HDD Inbuilt with DVR-Seagate/Western Digital Make, Surveillance Hard Disk series (AV series Svl/ SV-35.3 Svl)	
38.	Warranty: Two Year	

	<b>General Requirements</b>	
<b>1</b>	Warranty for Two year	
<b>2</b>	Post warranty AMC <b>for 5 years</b>	
<b>3</b>	Support for retrieval of images for dispute resolution at no additional cost	
<b>4</b>	Necessary software for retrieval of Data from the DVR Hard Disc on	
<b>5.</b>	Open platform with sharing of information on DVR Software Disk Kit( <b>SDK</b> ) for CMS by any third party	
<b>6.</b>	UL,CE and FCC certification for imported parts/components and ISI for Indigenous parts/components	

Date

Signature and Seal of the vendor

**APPENDIX-‘ IV’****VARI-FOCAL DOME IR CAMERA VANDALPROOF**

SL.	Vari focal dome IR Camera	Specifications	Vendors Compliance Y/N
1	Pick up Element	1/3" Super HAD-II CCD	
2	Effective Pixel	PAL: 976x582, NTSC 976x494	
3	Scanning System	2:1 interlace	
4	Sync System	Internal / External Line Lock	
5	Resolution	700 TV lines	
6	Sensitivity	0.01 lux	
7	S/N Ratio	MORE THAN 52 db. (AGC Off, F1.2)	
8	Electronic shutter	Auto: 1/50 (60) to 1/120,000sec	
9	Output	1Vpp Composite video output, 75 Ohm	
10	Lens Type	2.8 – 10 mm Auto Iris DC lens and IR corrected	
11	IR Range	20-30 mtrs	
12	Day/Night	True day/night	
13	Auto White Balance	Auto	
14	Back Light Compensation	OFF/ON SELECTABLE	
15	Automatic Gain Control	OFF/ON SELECTABLE	
16	Flicker less Mode	OFF/ON SELECTABLE (NTSC 1/100; PAL 1/200)	
17	Operating Temperature	10 to 50° C / 30 – 90% RH	
18	Power supply	12VDC/24VAC Auto Detectable	
19	Power consumption	Less than 4 watts with LED ON	
20	Working Condition 24 * 7	Support	
21	Product warranty	1 year minimum	
22	Certification	UL,CE & FCC	

**Date****Signature and Seal of the vendor**

**VARI-FOCAL BULLET IR CAMERA- WEATHERPROOF**

<b>SL.</b>	<b>Vari focal dome IR Camera</b>	<b>Specifications</b>	<b>Vendors Compliance Y/N</b>
1	Pick up Element	1/3" Super HAD-II CCD	
2	Effective Pixel	PAL: 976x582, NTSC 976x494	
3	Scanning System	2:1 interlace	
4	Sync System	Internal / External Line Lock	
5	Resolution	700 TV lines	
6	Sensitivity	0.01 lux	
7	S/N Ratio	MORE THAN 52 db. (AGC Off, F1.2)	
8	Electronic shutter	Auto: 1/50 (60) to 1/120,000sec	
9	Output	1Vpp Composite video output, 75 Ohm	
11	Lens Type	2.8 – 10 mm Auto Iris and IR corrected	
12	IR Range	30-40 mtrs	
13	Day/Night	True day/night	
14	Auto White Balance	Auto	
15	Back Light Compensation	OFF/ON SELECTABLE	
16	Automatic Gain Control	OFF/ON SELECTABLE	
17	Flicker less Mode	OFF/ON SELECTABLE (NTSC 1/100; PAL 1/200)	
18	Operating Temperature	10 to 50° C / 30 – 90% RH	
19	Power supply	12VDC/24VAC Auto Detectable	
20	Power consumption	Less than 4 Watt with LED ON	
21	Working Condition 24 * 7	Support	
22	Product warranty	1 year minimum	
23	Certification	UL,CE&FCC	

**Date****Signature and Seal of the vendor**

**APPENDIX-'IV-B'****PIN HOLE CAMERA**

<b>SL.</b>	<b>Vari focal dome IR Camera</b>	<b>Specifications</b>	<b>Vendors Compliance Y/N</b>
1	Pick up Element	1/3" Super HAD- IICCD	
2	Effective Pixel	PAL: 976x582, NTSC 976x494	
3	Scanning System	2:1 interlace	
4	Sync System	Internal / External Line Lock	
5	Resolution	700 TV lines	
6	Sensitivity	0.01 lux	
7	S/N Ratio	MORE THAN 52 db. (AGC Off, F1.2)	
8	Electronic shutter	Auto: 1/50 (60) to 1/120,000sec	
9	Output	1Vpp Composite video output, 75 Ohm	
11	Lens Type	3.7 mm or less, wide angle	
12	Day/Night	Auto	
13	Auto White Balance	Auto	
14	Back Light Compensation	OFF/ON SELECTABLE	
15	Automatic Gain Control	OFF/ON SELECTABLE	
16	Flicker less Mode	OFF/ON SELECTABLE (NTSC 1/100; PAL 1/200)	
17	Operating Temperature	10 to 50° C / 30 – 90% RH	
18	Power supply	12VDC/24VAC Auto Detectable	
19	Working Condition 24 * 7	Support	
20	Product warranty	1 year minimum	
21	Certification	UL,CE &FCC	

**Date****Signature and Seal of the vendor**

## **APPENDIX - 'IV - C'**

Item No	Item Name	Specifications	Vendors Compliance Y/N
A	<b>Hard Disk Drive</b>	Surveillance Hard disc Drive	
	Seagate/Western Digital (Surveillance HDD)	32~64 MB Cache, 3 MB~6MB per second data transfer rate.	
B	<b>MONITOR</b> (Samsung/LG)	LCD with TCO 03 or equivalent certification	
	Screen Size	19" , 24" & 32 " diagonal TFT LCD/LED	
	Make	Samsung/LG	
	Video	PAL/NTSC color composite	
	Resolution	1280*1024/ 1368*720 Pixels @ 60~85 Hz Refresh Rate, True Colour (32 Bit)	
	Power input	90-260VAC or 121 V DC	
	Viewable Angle	140° H, 130° V	
C	<b>Cable- Video</b>		
	Category	Co Axial RG 6	
	Type	Unarmored	
	Capacitance	53 +/- 3 Ohms	
	DC resistance inner conductor	8.5 Ohms / KM	
	Di-electric strength	10 KVA AC Mains	
	Di electric material	Polythene (PE), 7.1 mm dia	
	Insulation resistance	50 M Ohms/KM	
	Nominal Impedance	75 Ohms	
	Minimum bending radius	55 mm	
	Acceptable Quality	Make – Finolex, Polycab, Jaitex	
D	<b>Cable- Power</b>	Unarmored	
	Category	2 Core power cable, FRLS	
	Type	2 core x 0.75 sq mm	
	Acceptable type	ISI Marked (IS-694, 1990) Make – Finolex, Polycab,	
	Insulation	PVC Insulated	
E	<b>PVC Conduits for cabling.</b>		
	Specification	20 mm dia	
	Acceptable Quality	ISI Marked, Make – Precision or equivalent	
	Grade	Medium	

**IMPORTANT:-** All imported products, e.g. Cameras, DVRs should carry quality certification i.e. CE , FCC and UL. (Copies to be enclosed) and all Cable and PVC conduit i.e. ISI Marked.

4 CH ATM DVR- Technical Specification		
1	Operating System	Embedded Linux
2	Video Compression	Embedded with H.264 Video Compression Algorithm
3	No of Video channel	4
4	System features	Simultaneous Viewing, record, play Back, back up & Network
5	Display Resolution	BNC- 704X576 (PAL), 704X480(NTSC)
6	Frame Rate	PAL-D1 quality
7	Video Input	4 Channel
8	Video Output	1BNC,1VGA
9	Storage	Hard Disc-90 days recording minimum
10	Record	Manual, Alarm, Motion Detection & Schedule
11	Support Function	Multi Zone Motion Detection, Multi level password protection
12	Content Control	Water Marking for authentic Video footage
12	Search	Date/Time, Logistic Event, Channel
13	Back up	USB/USB-DVD-RW
14	Remote Function	Mobile view, Back up
15	HDD	02 slots minimum
16	Built in display	7" minimum
17	Text Overlay	ATM POS for text overlay feature
18	Housing	ATM DVR cabinet with temper proof locking arrangement
15	Certification	CE,FCC & UL
Camera Type & Location		
1	Type	Colour, Preferably IR Dome, if required may be Pinhole
2	Numbers	2, Minimum
3	Location	Camera should be installed in such a way that the camera view <b>Should not cover key Pad</b> ,One camera outside and one inside the ATM room.
Camera Specification		
1	IR Dome Camera, vandal proof	1/3" HAD-II CCD, 0.01 Lux, 700TVL, 3.6 mm Wide Angle fixed Lens
2	Pin Hole Camera	1/3" HAD CCD, in appropriate housing 0.01 Lux, 700TVL, 3.7 mm Wide Angle fixed Lens
3.	IR bullet camera, weather proof	1/3" HAD-II CCD, 0.01 Lux, 700TVL, 3.6 mm Wide Angle fixed Lens

**Appendix-V**  
**Financial Bid**

	<b><u>Appendix – V- Financial Bid</u></b>	8 CHANNEL STANDALONE DVR		16 CHANNEL STANDALONE DVR	
<b>SN</b>	<b>TECHNICAL SPECIFICATION FOR 8&amp;16 CHANNELS STANDALONE DVR</b>		unit cost inclusive of all the applicable taxes, handling, delivery & installation charges		unit cost inclusive of all the applicable taxes, handling, delivery & installation charges
1	Operating System: Embedded Linux.				
2	DVR should be system embedded with <b>H.264</b> video compression algorithm.				
3	Video Frame rate/speed:- 8 / 16 Channel DVR 240 / 480/960 fps-NTSC 200/400/800 fps-PAL.				
4	Simultaneous Live viewing, Remote viewing, Back up, , recording and Playback functions. <b>Pentaplex</b>				
5	Display on line resolution / Preview resolution 976*576 PAL				
6	Multiple Viewing Option (VGA/BNC).				
7	Video Inout / Loop out: 8/8 & 16/16				
8	Video Output: 1 composite, 1 HDMI, 1 VGA, 1 Spot.				
9	Audio in / out: minimum 4/1				
10	Recording Rate: PAL: Real Time (25 fps per channel), WD1 with all Channels recording and playback both. Player software auto download with backup on DVD.				
11	System should be robust and capable of working in 24X7X365 environment.				
12	System should be scalable / upgradeable.				



13	Storage Media: Built in Recording up to 90 days in real Time (25 FPS per channel)				
14	Provision for minimum 4 SATA slots for 3 HDD + DVD – RW (each SATA slot should upto 6 TB HDD capacity). For 16/32 channel: 8 SATA slots				
15	Data storage for 90 days. Data recycling on FIFO basis.				
16	Network Interface: Ethernet (RJ-45, 10/100 Base-Tx), External Model Via RS-232 Port, RS 485 port.				
17	Support Multi Zone Motion Detection.				
18	Support multilevel Pass Word For Operation, setup and remote Access.				
19	Support Waterproof marking to ensure tamper proof recording of images.				
20	Support tampering detection alarm function to indicate tempering of DVR / Cameras. Visual indication for local faults, disc full, malfunction etc.				
21	Support video signal loss alarm. System should do health check of all cameras.				
22	Support position configurable to OSD and LOGO.				
23	Support Real Time and Motion Based Recording.				
24	Support HDD Sleep Mode.				
25	Support FAT 32 File System.				
26	Support USB flash dish, USB DVD-RW for backup with built in DVD-RW.				
27	Support playback in various modes fast, slow, pause, forward, backward, frame-by-frame.				
28	Support TCP, UTP, RTP, PPPOE, Multicast, DHCP etc.				
29	Connectivity: Provision for ADSL, PSTN, Leased Line, Broad Band.				

30	Remote play back, Download the recorded files in DVR.				
31	Remote viewing through Mobile phones / and through any other PC with IP (RHMS).				
32	System should have file player software so that back up can be auto played on any PC Using Windows Media Player.				
33	Vender Should provide Central Monitoring Station (CMS) Software <b>free of cost</b> and this software should be compatible to CMS software of third party, as well. The system should be capable of running Remote Health Monitoring System.				
34	Power AC-100/240 V & 50 / 60 Hz.				
35	<b>DVR housing with wall mounting bracket and tamper proof locking arrangement.</b>				
36	System Should carry UL/FCC/CE certification.				
37	HDD Inbuilt with DVR- Seagate/western Digital Make, Surveillance Hard Disk series (AV series SvI/SV-35.3SvI)				
38	Warranty: Two Year				
39	Post warranty AMC for 5 years				
40	Support for retrieval of images for dispute resolution at no additional cost				
	<b>TOTAL COST OF DVR PER SYSTEM</b>				
II	<b>TECHNICAL SPECIFICATION FOR CAMERAS</b>			<b>Unit Cost inclusive of All Tax(Rate per unit)</b>	
1	<b>Vari- Focal Dome IR Camera</b> – With specification of appendix IV				
2	<b>Vari- Focal Bullet IR Camera- Weather Proof</b> – With specification of appendix IV A				

3	<b>PIN Hole Camera</b> – With specification of appendix IV B		
	<b>Note:</b> All Cameras Should carry UL/FCC/CE certification & are to be supplied with associated mounting bracket and housing		
III	<b>TECHNICAL SPECIFICATION FOR MONITOR-</b> With specification of appendix IV C		Unit Cost inclusive of All Tax
1	LED 19", 24", 32" inch size, model LG/Samsung(Rate per unit)		
IV	<b>TECHNICAL SPECIFICATION FOR CABLING</b>		Unit Cost inclusive of All Tax
1	RG 6 video coaxial cable per meter (Rate per running meter) (Brand Polycab)		
2	Two core, FRLS, 2 core X 0.75 sq mm per meter(Rate per running meter) (ISI Marked, I-694,1990, Brand- finolex, Polycab)		
3	PVC conduits for cabling- 200 mm dia (ISI marked) Make precision or equivalent- per meter-(Rate per running meter)		
4	Price per running meter of all the above stated three items		
V	<b>AMC -CONDITIONS (COMPREHENSIVE AMC FOR 5 YEARS)</b>	Cost inclusive of all taxes & charges (No separate charges for any kind of spare parts including Power supply, Mother Board, Hard disk, DVR, PCB, Cameras will be paid)	Cost inclusive of all taxes & charges (No separate charges for any kind of spare parts including Power supply, Mother Board, Hard disk, DVR, PCB, Cameras will be paid)
1	AMC Comprehensive ( all the spare parts cost included, including power supply, Mother board, Hard disc, PCB, Complete DVR unit, Cameras etc.) during AMC period no separate charges for any kind of spare parts will be paid. AMC for the above configuration for five years and the rate quoted for one year per branch for 4/8/16 channel		

	CCTV system. The AMC charges quoted by the vendor will also be applicable for the existing 04, 08, 16 Channel CCTV Systems installed at various branches of Hooghly Zone.				
<b>VII</b>	Mention Service Centers/Office in the Hooghly/Pashchim Medinapore (Specify City/town)				
<b>VIII</b>	Incase of refurbishing & shifting Relocation charges per Branch for 04,08,16 Channel system				

**NOTE: ALL ABOVE MENTIONED ITEMS e.g. CAMERAS, DVRs SHOULD CARRY QUALITY CERTIFICATION I.E. CE, FCC AND UL (COPIES TO BE ENCLD) AND ALL CABLE AND PVC CONDUIT I.E. ISI MARKED**

**Seal**

**Date**

**(Signature of the tenderer/Vendor)**

	<b><u>Annexure - VI –Financial Bid</u></b>	4 CHANNEL STANDALONE DVR FOR ATM	
<b>SN I</b>	<b>TECHNICAL SPECIFICATION FOR 4 CHANNELS STANDALONE DVR</b>		<b>unit cost inclusive of all the applicable taxes, handling, delivery &amp; installation charges</b>
1	Operating System: Embedded Linux		
2	Video compression :- Embedded with H.264 Video compression algorithm		
3	No of video channel-4		
4	System features:-Simultaneous viewing, record , Playback ,back up & Network.		
5	Display resolution:- BNC- 704x576(PAL),704x480(NTSC)		
6	Frame rate:-PAL- D1 quality		
7	Video Input :- 4 Channel		
8	Video Output: 1 BNC, 1 VGA .		
9	Storage:- Hard disc 90 days recording minimum (2 T.B) SURVEILLANCE HARD DISK		
10	Record:- Manual, alarm, Motion detection & Schedule.		
11	Support function:- Multi zone motion Detection, Multilevel password protection.		
12	Content control:- Water marking for authentic video footage		
13	Search:- date/Time, Logistic event ,channel.		
14	Back up:-USB/USB-DVD-RW		
15	Remote function:-Mobile view ,Back up.		
16	HDD- 02 slots minimum		
17	Built in display 7" minimum		
18	Housing- ATM DVR cabinet with temper proof locking arrangement		
19	Certification:-CE/FCC/UL/-		
	<b>DVR housing with wall mounting bracket and tamper proof locking arrangement for 4 Channel in Rs-</b>	4 CHANNEL CCTV system DVR IN Rs	
	<b>TOTAL COST OF EACH CCTV SYSTEM</b>		
	<b>Camera type &amp; Location</b> THE VENDOR	RATE QUOTED BY	

1	Type:-Colour, Preferably C-mount, IR & Dome ,if required may be pin hole		
2	Number-2 Minimum		
3	Location:- Camera should be installed in such a way that the camera view should not cover key pad, one camera outside and one inside the ATM room		
	<b>Camera specification:-</b> THE VENDOR		RATE QUOTED BY
1	IR Dome camera:-1/3" HAD-II CCD, 0.01 Lux, 700 TVL, 3.6 mm Wide Angle fixed Lens vandal proof		
2	Pin Hole Camera- 1/3" HAD CCD, in appropriate housing 0.01 Lux, 700 TVL, 3.7mm wide Angle fixed Lens		
3	IR Bullet camera, weather proof- 1/3" HAD CCD, in appropriate housing 0.01 Lux, 700 TVL, 3.7mm wide Angle fixed Lens		
<b>III</b>	<b>TECHNICAL SPECIFICATION FOR MONITOR</b>	RATE QUOTED BY THE VENDOR	
1	LED 19 inch size(Rate per unit) (model LG/Samsung)		
<b>IV</b>	<b>BUY BACK OF OLD CCTV SYSTEM ALONG WITH 4/8 CAMERAS &amp; ACCESSORIES</b>	RATE QUOTED BY THE VENDOR	
<b>V</b>	<b>TECHNICAL SPECIFICATION FOR CABLING</b>		
1	RG 6 video coaxial cable per meter (Rate per running meter) (Brand Polycab)		
2	Two core, FRLS, 2 core X 0.75 sq mm per meter(Rate per running meter) (ISI Marked, I-694,1990, Brand-finolex, Polycab)		
3	PVC conduits for cabling- 200 mm dia (ISI marked) Make precision or equivalent-per meter-(Rate per running meter)		
4	Price per running meter of all the above stated three items		

VI	AMC -CONDITIONS (COMPREHENSIVE AMC FOR 5 YEARS)		Cost inclusive of all taxes & charges (No separate charges for any kind of spare parts including Power supply, Mother Board, Hard disk, DVR, PCB, Cameras will be paid)
1	AMC Comprehensive ( all the spare parts cost included, including power supply, Mother board, Hard disc, PCB, Complete DVR unit, Cameras etc.) during AMC period no separate charges for any kind of spare parts will be paid. AMC for the above configuration for five years and the rate quoted for one year for 4/8/16 channel CCTV system. The AMC charges quoted by the vendor will also be applicable for the existing 04, 08, 16 Channel CCTV Systems installed at various branches of Hooghly Zone.		
	Mention Service Centers/Office in the Hooghly Pashchim Medinapore (Specify City/town)		
	In case of refurbishing & shifting Relocation charges per Branch/ATM for 04, Channel system		
<p><b>NOTE: ALL ABOVE MENTIONED ITEMS ARE TO BE SUPPLIED AS PER SPECIFICATION GIVEN IN THE ABOVE TABLE AND INSTALLATION HAS TO BE COMPLETED AS PER REQUIREMENT OF EACH BRANCH .</b></p> <div> <div data-bbox="168 1528 261 1604">Seal Date</div> <div data-bbox="834 1528 1317 1562">Signature of the tenderer/Vendor</div> </div>			