

Supply, Installation, Testing & Commissioning of IP Based CCTV Camera System at 02 Colonies of NABARD, Kolkata



**West Bengal Regional Office
‘Nabard Bhawan’, Plot No.2, DP Block, Street no.11,
Sector – V, Salt Lake, Kolkata - 700091**

Last date and time for submission of quotation: 27 April 2023

FORM OF TENDER

The Chief General Manager
WEST BENGAL REGIONAL OFFICE,
'Nabard Bhawan',
Plot No.2, DP Block,
Street no.11, Sector – V,
Salt Lake, Kolkata - 700091

Dear Sir/Madam

Notice inviting tender – Supply, installation, testing & commissioning of IP CCTV system at 02 colonies of NABARD, Kolkata.

- 1 I / We have examined the Scope of Works, Specifications and Schedule of Quantities and Terms and Conditions relating to the tender for the said works after having obtained the Tender document invited by you.
- 2 I / We have visited the site, examined the site of works specified in the Tender Document and acquired the requisite information relating thereto as affecting the Tender.
- 3 I / We hereby offer to execute and complete the works in strict accordance with the Tender Document at the item rates quoted by me / us in the attached Schedule of Quantities in all respects as per the specifications and Scope of Works described in the Tender Document and the Annexures containing Terms and Conditions.
- 4 In the event of this tender being accepted, I/We agree to enter into and execute the prescribed Agreement with NABARD as per the format mentioned in this tender.
- 5 I/ We agree to pay all Government (Central and State) Taxes such as Sales Tax, Works Contract Tax, VAT, Excise Duty, Octroi, GST etc. and other taxes prevailing from time to time and the rates quoted by me/us are inclusive of the same.
- 6 The rates quoted by me / us are firm and shall not be subjected to variations on account of fluctuation in the market rates, taxes or any other reasons whatsoever.
- 7 Should this tender be accepted, I / we hereby agree to abide by and fulfill all the Terms and Conditions and Provisions of the said Contract Document annexed hereto.

Name of the person authorized to sign and submit the Tender

I).....

II).....

Yours faithfully

Place

Date

Signature

Seal

Safety code

1. During- the execution of works, every care shall be taken to ensure that the safety and convenience of workmen staff, authority visitors to site and the public are duly catered to and that all operations are carried out in such a manner as to cause least interference with the traffic or ordinary pursuit of the people.
2. When a ladder is used, it shall be rigid construction made either of good quality wood or steel. The steps shall have a minimum width of 450 mm. and a maximum rise of 300 mm. Suitable hand holds of good quality wood or steel shall be provided and the ladder shall be given an inclination not steeper than $\frac{1}{4}$ to 1 ($\frac{1}{4}$ horizontal to 1 vertical).
3. Safe means of access shall be provided to all working places. Every ladder shall be securely fixed. No portable single ladder shall be over 9 M. in length while the width between said rails in sung ladder shall in no case be less than 190 mm. for ladder up to and including 3 M. in length. For longer ladders this width shall be increased at least 20 mm. for each additional meter of length.
4. All personnel of the Contractor within the plant site shall be provided with safety helmets. All welders shall wear welding goggles while doing welding work and all metal workers shall be provided with safety gloves. Persons employed on metal cutting and grinding shall wear safety glasses.
5. Adequate precaution shall be taken to prevent danger from electrical equipment. No materials on any of the sites of work shall be so stacked or placed as to cause danger or inconvenience to any person or the public.
6. The Contractor shall take all measure on the site of the work to protect the public from accidents and shall be bound to bear the expenses of defense of every suit, action or other proceedings at law that may be brought by any persons for injury sustained owing to neglect of the above precautions and to pay any such persons or which may with the consent of the Contractor, be paid to compensate any claim by any such person.
7. No electric cable or apparatus which is liable to be a source of danger over a cable or apparatus used by the operator shall remain electrically charged.
8. All necessary personnel safety equipment as considered adequate by the Employer should be kept available for the use of the persons employed on the site and the Contractor should take adequate steps to ensure proper use of equipment by those concerned.
9. All scaffolds, ladders and other safety devices mentioned or described herein shall be maintained in safe condition and no scaffolding, ladder or equipment shall be altered or removed while it is in use.
10. These safety provisions should be brought to the notice of all concerned by display on a notice board at a prominent place at work spot. The person responsible for compliance of the safety code shall be named thereon by the Contractor.
11. Notwithstanding all the above clauses there is nothing in these to exempt the Contractor from the operations of any other Act or Rule in Force in the Republic of India.

Scope of Work

The scope of work shall include the following.

- i. Supply, installation, testing and commissioning of IP CCTV Surveillance System at :
 - a. Nabard Abasan RNC Quarters, 51/1, RNC Road, Tangra, Kolkata - 700015.
 - b. NABARD Officers Quarters, Susham Apartment, 112 NSC Bose Road, Kolkata - 700040
- ii. Delivery of entire material to above 02 locations including packing, handling, transporting, clearing, loading/unloading at Kolkata.
- iii. Installation, testing & commissioning of all the components/ equipment / accessories, etc. as per technical specifications, and handing over to the Bank.
- iv. Wherever the ground is dug for cable laying etc, it shall be restored to original condition. All debris etc. shall be disposed off to the nearest defined place by municipal authority or by Bank, as applicable without any extra charge/cost.
- v. Providing all-inclusive service including all spares, etc. during defect liability period of 12 months after completion of work.
- vi. All the cabling and consumables items mentioned in BOQ will be billed as per actual consumption.
- v. All engineering, equipment, labour, and permits required to satisfactorily complete the work required by this Specification.
- vi. Any other work related to but not specifically mentioned above, required for completion of the job as per the intent and scope of work.

Warranty:

The entire equipment/ system shall be warrantied to be free from defective workmanship or materials and any defects that may appear within **12 months** (one year) from the date of issue of completion certificate for the work, which in the opinion of the Bank have arisen from bad workmanship or materials, shall upon intimation by the Bank, be made good by the Contractor at his own cost within the time specified.

During the said period of 12 months (DLP) , the contractor (successful tenderer) shall make periodical inspection of the working of the entire system free of charge at least once in a month or earlier as per requirement and attend to such other service that may be required of him. The warranty period shall be 12 months from the date of handing over of the entire system to the Bank.

The total Security Deposit @ 5% will be deducted from bills payable to the contractor by the successful tenderer shall originally be valid till end of DLP. The security deposit will be released after the DLP is over.

It may be noted that Earnest money Deposit (EMD) of Rs.12000/- shall be taken in the form of electronic payment in

Account Name: National Bank for Agriculture & Rural Development

Bank name: NABARD

Branch: Head Office, Mumbai

Account no. NABMISCo8

IFSC: NBRD00000002

The EMD shall not carry any interest and that the EMD of the successful bidder would be converted into Security Deposit and shall not carry any interest. It would be refunded at the time of completion of the contract period to the successful bidder. To the other bidders EMD shall be refunded on award of work to the successful bidder. However, the bidders registered as

MSE (Micro & Small Enterprises) as defined in MSE Procurement Policy issued by GoI or bidders who are registered with Central Procurement Organisations shall be exempted from depositing EMD. The bids shall be valid upto 90 days from the date of opening of the bids.

Last time and date for submission of the quotations–1400 hrs on 27 April 2023.

Final acceptance and Handover-takeover:

Prior to final acceptance, the contractor shall provide complete operation and maintenance instruction manuals to the Bank along with all the above mentioned documents. All aspects of system operation and maintenance shall be detailed, including wiring diagrams of all circuits, a written description of the system design, sequence of operation and drawing(s), illustrating control logic and equipment used in the system. Checklists and procedures for emergency situations, maintenance operations and procedures shall be included in the manual. **The Bank's engineer and security officer then shall test and inspect the functioning of various components (eg. cameras and their functions, recording features, etc.) and a joint report shall be prepared.** In case of any observations from Bank's side, the same shall be conveyed to the contractor in writing and got attended to by the contractor to the satisfaction of the inspecting officials.

The entire system then shall be taken over by the Bank and the defect liability period shall start from the same day.

Bank reserves the right to inspect equipment's and OFC, Cat-6 cables, other equipment, etc. Any inspected goods fail for confirm to specification after installation, Bank may reject them and the Vendor shall have to replace the rejected goods. In case of inspection waiver the same shall be obtained before the Sample approval should be obtained before installation for such material.

Proforma for electronic payment

Details of Bank Account to be furnished by the contractor/service provider for effecting the payment through ECS (e-payment).

Name and address of contractor/service provider with phone nos:

Sr. No.	Details required	Information furnished
1	Name of the account holder (As appearing in the Bank account)	
2	Name of the Bank	
3	Name of the branch	
4	Account number	
5	RTGS/NEFT/IFS code	
6	PAN No.	
7	GST No.	

Please attach a photocopy of one cancelled check leaf of the above Bank account and the copy of PAN Card.

Bill of Quantities I

National Bank for Agriculture and Rural Development						
Schedule of Quantities						
a. Name of Work: Supply, Installation, Testing and Commissioning of IP based CCTV Camera System at Nabard Abasan RNC Quarters, 51/1, RNC Road, Tangra, Kolkata.						
Name of Participating Bidder/ Firm						
Sr. No.	Description	Quantity	Unit	In Figure Rate	In Words Rate	Amount
1	4 MP IP IR Outdoor Bullet Camera, 6mm lens <ul style="list-style-type: none"> 1/3" 4 Megapixel progressive CMOS H.265+&H.265 Dual stream encoding 20 fps @ 4M (2560x 1440) & 25/30 fps @ 3M (2304 x 1296) DWDR, day/ night (ICR), 3D DNR, , AWB, AGC, BLC, HLC Multiple network monitoring : web viewer, CMS (DSS/PSS) & DMSS 2.8 mm fixed lens (3.6 mm optical) Max IR led length 30 meter IP67. DC 12V, POE (802.3af) Certification CE: (EN60950:2000) FCC:FCC Part15 Subpart B 	16	Each			
2	Supply installation, testing and commissioning of 16 channel NVR <ul style="list-style-type: none"> 16 Ch H.265 Network video recorder with 2 x sata port 16 Ip channel inputs, HDMI, 1/1 audio I/O and 4/2 alarm I/O 8MP recording resolution 2 SATA HD support, max 10TB capacity per slot (Hard disk not included) Save storage space with adaptive recording and camerawise recording retention Support smart H.265+/H.265/Smart H.264+/H.264 SMS and email notification, video popup, alarms and calling from mobile application ONVIF & major camera brand support 	1	Each			
3	8 port PoE with 2SFP Fully Managed Uplink 150W power Budget Rack mount +1 console port, 1U rack mount	4	Each			
4	Single mode SFP transceiver 1.25G single mode, dual fiber	4	Each			
5	10TB SATA Enterprise 7200 RPM (surveillance HDD)	2	Each			
6	CAT6 UTP cable	950	meters			
7	6 Core OFC cable (SM)	350	meters			
8	RJ45 connector with soft plastic	50	No.			
9	21 inch LED fully HD display with stand	1	Each			

10	HDMI cable	15	meter			
Sr. No.	Description	Quantity	Unit	In Figure	In Words	Amount
11	6U Network rack with all accessories (glass doors, with two selves, PDU with 5amp with 5 sockets with fan)	1	No.			
12	Conduit pipe 25mm of length 10 feet each	150	Piece			
13	GI Pipe 25mm of length 10 feet each	30	Piece			
14	25mm saddle clamp	600	Piece			
15	1 KVA offline UPS with battery	1	No.			
16	12 port LIU full loaded with adaptor and pigtail	1	No.			
17	6 port LIU full loaded with adaptor and pigtail	2	No.			
18	SC/LC OFC patched cable	4	No.			
19	4 x4 PVC box	16	No.			
20	Installation, Testing, Commissioning and necessary accessories related to installation with one year onsite support	1	Lump sum			
21	CCTV cable laying with accessories (including scaffolding)	1000	meter			
22	3 core power cable (for PoE switches)	300	meter			
23	2U Network rack with all accessories (glass doors, with two selves, PDU with 5amp with 5 sockets with fan)	3	No.			
Total						
GST						
Grand total including GST						

Bill of Quantities-II

National Bank for Agriculture and Rural Development						
Schedule of Quantities						
a. Name of Work: Supply, Installation, Testing and Commissioning of IP based CCTV Camera System at NABARD Officers' Quarter, Susham Apartment,112, NSC Bose Road, Kolkata-40						
Name of Participating Bidder/ Firm						
Sr. No.	Description	Quantity	Unit	In Figure	In Words	Amount
1	4 MP IP IR Outdoor Bullet Camera, 6mm lens <ul style="list-style-type: none"> 1/3" 4 Megapixel progressive CMOS H.265+&H.265 Dual stream encoding 20 fps @ 4M (2560x 1440) & 25/30 fps @ 3M (2304 x 1296) DWDR, day/ night (ICR), 3D DNR, , AWB, AGC, BLC, HLC Multiple network monitoring : web viewer, CMS (DSS/PSS) & DMSS 2.8 mm fixed lens (3.6 mm optical) Max IR led length 30 meter IP67. DC 12V, POE (802.3af) 	9	Each			

	<ul style="list-style-type: none"> Certification CE: (EN60950:2000) FCC:FCC Part15 Subpart B 					
2	Supply installation, testing and commissioning of 16 channel NVR <ul style="list-style-type: none"> 16 Ch H.265 Network video recorder with 2 x sata port 16 Ip channel inputs, HDMI, 1/1 audio I/O and 4/2 alarm I/O 8MP recording resolution 2 SATA HD support, max 10TB capacity per slot (Hard disk not included) Save storage space with adaptive recording and camerawise recording retention Support smart H.265+/H.265/Smart H.264+/H.264 SMS and email notification, video popup, alarms and calling from mobile application ONVIF & major camera brand support 	1	Each			
3	8 port PoE with 2SFP Fully Managed Uplink 150W power Budget Rack mount +1 console port, 1U rack mount	2	Each			
4	10TB SATA Enterprise 7200 RPM (surveillance HDD)	1	Each			
5	CAT6 UTP cable	600	meters			
6	RJ45 connector with soft plastic	25	No.			
7	21 inch LED fully HD display with stand	1	Each			
8	6U Network rack with all accessories (glass doors, with two selves, PDU with 5amp with 5 sockets with fan)	2	No.			
9	Conduit pipe 25mm	200	Piece			
10	25mm saddle clamp	150	Piece			
11	600V offline UPS with battery 12V 7 AH	2	No.			
12	4 x4 PVC box	9	No.			
13	Installation, Testing, Commissioning and necessary accessories related to installation with one year onsite support	1	Lump sum			
14	CCTV cable laying with accessories (including scaffolding)	600	meter			
	Total					
	GST					
	Grand total including GST					

Note:

1. BOQ shall be submitted on this sheet only. BOQ submitted on other sheets/format shall be rejected.
2. Above mentioned rates shall be inclusive of all taxes, duties, charges etc.
3. Length of Digging & STP Cables are estimated and during trenching & lying it may differ up to 10-20 % and difference cost shall be added/subtract from bill if qty increase or decrease.
4. Length of OFC & STP is estimated/tentative and it may vary during lying
5. Warranty: 1 year from the date of handing over against manufacturing defects as per OEM warranty conditions, but exclusive of theft, breakage, fire, natural calamity, high voltage, lightning faults etc.