

TENDER NOTICE



**EMBASSY OF INDIA
SEOUL**

TENDER NOTICE

[LAST DATE OF BIDDING – Friday, 13 November 2020]

Embassy of India, Seoul invites sealed bids from experienced companies for Installation of "Network Video Recorder (NVR) / Closed Circuit Television (CCTV) & its infrastructures at its Embassy Residence Chancery building at 116 ITAEWON-dong, Yongsan-gu, Seoul.

Details of the Tender document may be seen at
<http://www.indembassyseoul.gov.in/tenders/>

**Government of India
Embassy of India
Seoul**

9 September 2020

INVITATION TO TENDER

Name of the Works: Installation of “Network Video Recorder (NVR) / Closed Circuit Television (CCTV) & its infrastructures at its Embassy Residence Chancery building at 116 ITAEWON-dong, Yongsan-gu, Seoul.

Embassy of India, Seoul, for and on behalf of the President of India invites Lump-sum Fixed Price Tender for Installation of “Network Video Recorder (NVR) / Closed Circuit Television (CCTV) & its infrastructures at its Embassy Residence Chancery building at 116 ITAEWON-dong, Yongsan-gu, Seoul.

2. Please refer to website of Embassy of India, Seoul <http://www.indembassyseoul.gov.in/tenders/> for complete details, scope of work, conditions and instructions to bid. Sealed bids may be submitted in original after checking the details on CPP Portal.

3. The Lump-sum Fixed Price / Amount tender shall be on the basis of following tender documents.

Technical Bid Document:	
Document – I	Press Notice, Invitation to Tender, Instructions to Bidders, Scope of Work & Eligibility Criteria
Financial Bid Document:	
Document - II	Form of Tender (Lump sum price to be quoted on this form by Bidder)
Document - III	Schedule of Items
Document - IV	Conditions of contract including standard formats for BG / Guarantee, etc.

4. The Tender shall be submitted before 3.00 p.m. on or before 13 November 2020 in the Office of Head of Chancery, **Embassy of India, 101, Dokseodang-ro, Hannam-dong, Yongsan-gu, Seoul** Tel: +82-2-797-4258

Any Tender received after this date and time will not be considered. Technical Tender only shall be opened after the last day of submission at the office of Head of Chancery by the Committee formed by the Ambassador in this regard.

The Tender shall remain valid for a period of Ninety (90) days from the date of opening or any extended period.

5. **Eligibility Criteria:** The Tenderer should have valid permit / registration from a

competent local authority for carrying out the above work in the rented property of the Embassy of India, Seoul. The Tenderer should have satisfactorily completed **(i) one similar work of 80% value of cost estimates or (ii) two similar works of 60% value of cost estimates or (iii) three similar works of 40% value of cost estimates**. Similar works mean – fixing/replacement of electrical work for diplomatic buildings / buildings of international importance, office buildings, Hotels, Shopping Malls, Apartment complex, etc.


6. **Bank Solvency** : Certificate of Solvency for 40% of value of estimated cost certified by banker, not older than six months.
7. **Defect Liability Period**: Defects Liability period will be twelve months from completion of project.
8. **Performance Security**: 10% of the contract value in the form of a Bank Guarantee valid for a period of sixty days beyond the date of the completion of all the contractual obligations of the supplier under the contract and discharged after completion of work.
9. Contractor shall quote his Lump-sum Fixed Price based on the enclosed **Scope of Work**. The Contractor shall note that quantities shall not form part of the agreement and he shall complete all the works as defined in the Scope of Work. The Contractor shall complete all the works as stated above irrespective of the quantities / details since these will not form part of the agreement however the unit rates quoted there for items shall be used for working out the variations as per tender conditions.
10. Commencement of the works shall be effected within Fifteen (15) days from the date of issue of Acceptance letter to Letter of Intent or handing over the site, whichever is later.

The Period of Completion for the whole of the works is **30 days** calculated from the Fifteen days from the date of issue of Acceptance Letter to Letter of Intent or handing over the Site, whichever is later. Such 15 days period being defined as the mobilization period.

11. **Mobilisation Advance**: 50% of contract amount
12. **Retention Money**: 5% of contract amount for 12 months i.e., till the Defect Liability Period is over.
13. **Arbitration**: Any matters, which are not specifically stipulated herein, shall be determined through mutual consultation pursuant to pertinent laws, regulations and prevailing practices of Republic of Korea and the relevant provisions of the international law. Contract is to be interpreted, according to local legislations and mediation of disputes from the contract will be done by MOFAT/in accordance with UNCITRAL Arbitration Rules, according to Vienna Convention immunities & privileges regarding diplomatic and consular relations. The venue of arbitration shall be Seoul

metropolitan city. The language of the Arbitration proceedings shall be English.

14. The Employer will not be bound to accept the lowest or any tender nor to give a reason for the rejection of any Tender.
15. The Tenderer must submit with his offer a list of Sub-Contractors and Specialists names he proposes to use on the Works.
16. Embassy of India, Seoul, however, will always have the right to accept or reject any pre-approved sub-Contractor even after formal award of Contract and/or commencement of work with or without cause.
17. The successful Tenderer shall be responsible for coordinating his work with various sub-Contractors and other bid-pack Contractors employed on the Works coordinating his work between various trades, obtaining all the necessary information from sub-Contractors for the purpose of the overall programming of his works; supplying all the normal attendance to all sub-Contractors and assuming the overall responsibility for the aforesaid.
18. Tender document specifying in detail the scope of work, instructions to bidders, terms and conditions for the bid, technical parameters and form is enclosed.
19. The site will also be available for inspection. Prior intimation/appointment needs to be made.
20. Companies experienced in installation of NVR/CCTV and its infrastructures are invited to submit detailed bids with all required documents in a sealed envelope to Head of Chancery, Embassy of India by 1500 hrs on 13 November 2020.



[Kriti Das Thokchom]
Head of Chancery

Tender for work:- Installation of “Network Video Recorder (NVR) / Closed Circuit Television (CCTV) & its infrastructures at its Embassy Residence Chancery building at 116 ITAEWON-dong, Yongsan-gu, Seoul.

Section -I

INSTRUCTION TO BIDDERS

- 1.0 The Bidding Documents comprise of:
- | | |
|--------------|--|
| Section-I | Instructions to bidders |
| Section-II | Introduction of Bidder |
| Section -III | Terms and condition |
| Section - IV | Scope of work |
| Section - V | Schedule of Quantity (to be prepared and submitted by Bidder) |
| Section - VI | Form of Bid (Fixed price lump sum amount to be quoted by Bidder in the given format) |
- 2.0 **Validity of Bid** - The Bid shall remain valid for a period of 90 days from the date of the opening of the bid or up to any mutually extended period.
- 3.0 **Cost of Tendering**- The Employer will not be responsible to compensate for any expense or losses which may be incurred by the Tenderer in the preparation and submittal of his Tender/bid.
- 4.0 **Lump Sum Fixed Price Tender**- This is a LUMPSUM FIXED PRICE TENDER with the Extent of Work as shown in “Scope of work”. The Tenderer shall examine the scope of work and other Documents and all Addenda (if any) before submitting his Tender and shall become fully informed as to the extent, quality, type and character of operations involved in the Works. The Tenderer shall visit and acquaint himself with the Site of the Works. The tenderer shall take entire responsibility in the interpretation of this report and of the site conditions. No consideration or compensation will be given for any alleged misunderstanding of the nature of the work to be executed.
- 5.0 **Tender and Schedule of Quantities-**
- (i) Schedule of Quantities should be enclosed by Bidders.** Bidders are requested to identify and quote the rates of individual items. Items required for completion of the work may be added in the Schedule of Quantities with full nomenclature of the item. Bidders shall satisfy themselves of the quantities quoted in the Schedule of Quantities. These quantities shall be taken as guidance to assess the approximate quantum of work involved in the project. The Contractor prior to the submission of the tender, may add to items, quantities to the items in Schedule of Quantities as per the scope of the work, and site visit. It shall be the responsibility of the bidder to satisfy himself of the completeness of the documents for the scope of work and his own assessment of the work after site visit and as per the tentative scope of work mentioned in tender document. No extra cost shall be entertained and payable if any additional information or detail is provided later for carrying out the works as specified in the tender documents.
- (ii) Bidders are required to quote Lump sum fixed prices on “Form of Tender”.** Bidders may prepare schedule of quantity as per scope of work identifying item description,

quantity and rates. The total amount of schedule of quantity prepared by them should be transferred to **Form of Tender**.

(iii) The Lumpsum Fixed Price/amount must be quoted both in figures and in words on the Form of Tender and the currency must be in Korean Won only. In case of any discrepancy between figures or words, the amount quoted in words shall be taken to be correct for this tender.

- 6.0 **Final Tender Price- Decision on bid will be taken based on the final price quoted on the Form of Tender**. Lumpsum Fixed Price/Amount as quoted in the "**Form of Tender**" shall be the basis for deciding the tender quote and the L1 bidder.

In case of any mismatch in the final quoted price on **Form of Tender** and Total amount worked out on rates in **Schedule of Quantities**, the final price quoted on **Form of Tender** shall be considered for comparison of bids and decision on bid.

If amount quoted on Form of Tender is more than amount worked out on Schedule of Quantities, the rates in the Schedule of Quantities shall not be altered/adjusted. If amount quoted on Letter of Tender is less than amount worked out on Schedule of quantities, the rates on schedule of quantities shall be adjusted in the ratio to match with quoted final price on the Form of Tender.

- 7.0 Two Bids system shall be followed:

The Bid shall be submitted in a **large sealed envelope** with **two sealed envelopes containing Technical Bid and Financial Bid**.

The Bid shall be submitted by 3.00 p.m. on or before 13 November 2020 at the Embassy of India, 101, Dokseodang-ro, Hannam-dong, Yongsan-gu, Seoul.

Any Bid received after this date and time will not be considered and will not be opened. Any such unopened Bid will be returned to respective bidder.

- 8.0 **Opening of Bids-** Bids shall be opened after the last day of submission at the Embassy of India, Seoul

- 9.0 **Conditional Acceptance of the Tender-** The acceptance of the Tender shall be conditional and not finally binding upon the Employer. The Employer may withdraw the acceptance of the Tender without any notice or other formality and may enter into a new Agreement for the execution of the Works or any part of it

- 10.0 Any further information or clarification which the Tenderer may require in order to complete his Tender may be obtained from:

**Embassy of India
101, Dokseodang-ro,
Hannam-dong,
Yongsan-gu,
Seoul
Tel: +82-2-797-4258**

All information requested by and supplied to one bidder will be supplied to all bidders.

- 11.0 **Amendments to Tender Document-** At any time prior to the date of opening of the tender, the Employer may issue an addendum in the Tender Document in writing to all persons or firms to whom the Tender documents have been issued, deleting, varying or extending any item of this Tender Document. Prospective bidders shall promptly acknowledge receipt of each Addendum by email to the Employer.

Unless it is in formal manner described above, any representation or explanation to the Bidder shall not be considered valid or binding on the Employer as to the meaning of anything connected with the Tender Document.

The date and time for submission may be deferred by an official notification in writing issued by the Employer to all Bidders. Tenders received after this date will not be considered.

- 12.0 **Disqualification of Tender-** Tender may be disqualified for any reason including, but not limited to the following:

- a) If tenderer sets forth any conditions which are unacceptable to the Employer.
- b) If any tender is submitted under a name other than the name of the individual firm partnership or corporation that was issued the Tender Document.
- c) If there is evidence of collusion between Bidders.
- d) If Tender sets forth any offer to conditionally discount, reduce or modify its tender.
- e) If Bid price is disclosed before opening of Financial Bid.

- 13.0 **Compliance with Laws and Regulations and Pricing of Schedule of Quantities**

The attention of Bidders is drawn as to compliance with laws and regulations concerning safety and health, labour regulations, social insurance, labour taxes, tax deduction, import restrictions duties and levies, company's tax, input tax and output tax (VAT) etc. **All rates and sum inserted against items of works and in Form of Tender shall be exclusive of Value Added Tax.**

- 14.0 **Compliance with Tender Document-** Bidder shall have deemed to have read carefully all the Tender Documents, Specifications and drawings etc and visited site. The quoted Lumpsum Fixed price are inclusive all cost and charges and complete in all respect to make the project functional as per the standard and to the entire satisfaction of the Employer.

- 15.0 **Fixed Priced Lump Sum Tender -** Price escalation, in rates due to any reason such as change in foreign currency, increase in prices of material, equipment & labour, fuel (petrol, diesel, gas etc), transport, electricity & water, levy of new taxes, hike in any tax rate, Cess or due to delay in completion etc shall not be applicable.

- 16.0 All the payment shall be released as progress payments on the basis of certificate submitted by the contractor and satisfied by the employer. The detailed work schedule and the payment schedule would be furnished by the contractor to employer/consultant who will approve it before it forms part of the agreement. However, in the event of non-compliance of the payment schedule or otherwise due to the reasons acceptable to the Employer(Mission), the progress payment shall be made on the basis of evaluation of

work done by the Employer(Mission). All permissible deduction shall be effected during the Progress Payment, in line with the provisions of the Contract.

17.0 Completeness of the Tender

The Employer shall not be responsible for any missing details and drawings which would otherwise be required for completion of the work as per the local mandatory norms or sound engineering practices so as to make the buildings/work functional as per the specifications envisaged in the tender documents. The Contractor shall allow all cost and charges in the tender price accordingly.

18.0 Employer's right to waive- The Employer reserves the right to waive any deficiency in any tender where such waiver is in the interest of the Employer except that no proposal will be accepted if the Tender Security or/any of the preceding statutory documents was not submitted with the tender.

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Tender for work:- Installation of “Network Video Recorder (NVR) / Closed Circuit Television (CCTV) & its infrastructures at its Embassy Residence Chancery building at 116 ITAEWON-dong, Yongsan-gu, Seoul.

Section -II

Introduction and Credentials of Bidder
(To be submitted by the bidder)

Note : This may be submitted by the bidder. This should be a brief introduction, background, company details, credentials, VAT & other registration and past performance of the bidder. They may attach any other documents such as company profile, company brochures, achievement of the company etc.

Tender for work:- Installation of “Network Video Recorder (NVR) / Closed Circuit Television (CCTV) & its infrastructures at its Embassy Residence Chancery building at 116 ITAEWON-dong, Yongsan-gu, Seoul.

Section -III

Terms and condition of Contract

Terms and conditions of contract:-

- (i) Quoted price is final fixed lumpsum price inclusive of all taxes except VAT. Item/quantity indicated in the scope of work/schedule of quantity are tentative and some variation during execution may take place. Nothing extra is payable for such variation.
- (ii) Quoted price shall be exclusive of VAT. The quoted price should include lump-sum charges for Labour / transportation and civil works required / necessary, if any, for complete installation.
- (iii) Period of completion for the work is one month. Liquidated damage shall be levied on contractor for delay in completion if it is ascertained that contractor is responsible for delay. The rate of liquidated damage shall be calculated @ 0.5% of contract amount per week limited to maximum 10% of contract amount. This shall be computed on per day basis.
- (iv) Defects liability period shall be 365 days from date of practical completion of work. Contractor shall be bound to remove/ rectify / replace any defects / defective work which is noticed during defects liability period at his own risk and cost.
- (v) The tenderer shall guarantee among other things, the following:- a. Quality, strength and performance of the materials used; b. Follow up service, if required.; c. Good workmanship.
- (vi) Performance Bank Guarantee (PBG):- Performance guarantee @ 10% of contract amount in the form of Bank guarantee shall be deposited within 15 days of issue of Letter of intent. Letter of award of work shall be issued on receipt of performance guarantee. The performance guarantee shall be released on record of satisfactory practical completion of work.
- (vii) Commencement date of work shall be counted from the next day of Issue of letter of award or from the date of handing over of site whichever is later.
- (viii) Retention money :- Retention money @ 5 % of contract amount from each bill for payment shall be deducted. 50% of retention money shall be released on record of practical completion of the work. The entire balance retention money shall be released at the end of defects liability period after satisfactory performance of work / workmanship of the work during defects liability

period. The retention money can be converted in Bank Guarantee of equivalent amount.

(ix) Contractor's all risk policy:- A suitable Contractor's all risk policy shall be obtained by contractor at his own expense as per the prevailing local practice/local law before commencement of work. Mission shall be indemnified from any mishaps/accident at site.

(x) Workmen Compensation policy:- A suitable Workmen Compensation policy as per prevailing local practice/local law shall be obtained by contractor at his own expense before commencement of work. Mission shall be indemnified from any mishaps/accident at site.

(xi) 50% of total amount shall be paid in advance

(xii) No escalation on rates due to delay in works shall be admissible.

(xiii) Specification: The item of work / material used in the work shall be complying with the standard of quality like British standard / American standard / Indian Standard or equivalent. The material used /or workmanship should be of equivalent or higher standard than the existing items. Sound engineering practice should be adopted in all items of work execution.

(xiv) Contractor is bound to complete the work once they deposit the performance bank guarantee and signs the contract agreement. In case of non-completion of work or showing no intention to complete the work within stipulated time of completion or within approved extended time of completion of work, the mission shall be at liberty to forfeit retention money, performance guarantee and any other dues of contractor available with department.

(xv) Contractor is also bound to rectify / replace the defective item of work or workmanship which may come to notice during defects liability period or within the the guarantee period of water proofing work at his own risk and cost. In case of non-compliance of removal / rectification/ replacement of defective item of work or workmanship , the employer shall be at liberty to forfeit full or part of his retention money and/or performance guarantee and/or any other money or guarantee of the contractor available with the Employer.

(xvi) On completion of work, contractor shall submit all equipment manuals, guarantee cards, specifications etc. The final bill of work shall be paid only of completion of work and depositing all documents as above.

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Tender for work:- Installation of “Network Video Recorder (NVR) / Closed Circuit Television (CCTV) & its infrastructures at its Embassy Residence Chancery building at 116 ITAEWON-dong, Yongsan-gu, Seoul.

Section -IV: Scope of work

Introduction:- Scope of work given below is tentative. The bidder may inspect the site and understand the full scope of work. They may add any other item required to complete the work. Their quote on form of tender should include the cost of complete work which includes the scope of work mentioned below and also the additional item of work which they feel necessary for completion of the work. The bids shall be compared based on final amount mentioned on **Form of tender.**

Scope of Work

CCTVs and NVR system with proper cabling is required to be installed at newly rented premises located at Yongsan-gu, 102 Dokseodang-ro, Seoul. The premises require full coverage of security footage within and outside the premises.

The following facilities need to be installed:

- Supply/Installation of CCTVs which can give full coverage of security footage within and outside the premises.
- Supply/Installation of 16CH NVR on 1st floor
- Supply/Installation of Media Converter on 1st floor
- Cabling/Power supply construction for entire equipment
- Supply/Installation of suitable/lockable rack for NVR/Media Converter
- Cabling/Power supply construction for entire equipment
- Interiors works near around, if any
- Miscellaneous works, if any
- All the materials which used for above works have to be same level or higher than Korean Standard

Specification requires is as follow:

Srl. No.	Product Description
	CCTV System
1	Supply, Installation, Testing & Commissioning of fixed Dome Indoor , 1080p or better True Day/Night Network switching IP, 2-4 MP, H.265 Dome Camera with External/internal IR with 1/3 or 1/207” or better progressive scan. The cameras shall have a minimum illumination of 0.008 Lux@50 IRE in colour mode, 0.001 Lux@50 IRE in Black & White mode and 0 Lux with external IR along with weather protected features (Camera Should be- UL Listed)
2	Supply, Installation, Testing & Commissioning of Fixed Bullet Camera with 1/3” Progressive Scan CMOS Sensor, 0.008 Lux @F1.2 Illumination with IR, Super WDR up to 120 db, 1920X1080 image resolution, H.265 (HEVC)/H.264/MJPEG Video compression alongwith weather protected features (Camera Should be- UL Listed)

3	Supply, Installation, Testing & Commissioning of Motorized Bullet Camera with 1/3" Progressive Scan CMOS Sensor, 2.8 to 12 mm Motorized lens 0.008 Lux @F1.2 illumination with IR, Super WDR up to 120 db, 1920X1080 image resolution, H.265 (HEVC)/H.264/MJPEG Video Compression along with weather protected features. (Camera Should be- UL Listed)
4	Supply, Installation, Testing & Commissioning of High Speed Full HD PTZ Dome 1/1.8" or better CMOS Sensor, 2-3 MP Resolution, 36 Optical Zoom, 5-120 mm focal Length, 255 Prese Position, 360 degree continuous Rotation, 8 group Cruise Track, 4 group Pattern Track, 0.01 Lux in Colour/1.01 Lux in B&W mode for minimum Illumination, H.265 Main Profile Encoding. MJPEG/JPEG Baseline Encoding. (Camera Should be- UL Listed)
5	Supply, Installation, Testing & Commissioning of High Speed 16 CH NVR Video Output HDMI (1440x900 to 1920x1080) VGA (1440x900 to 1920x1080) CVBS (1440x900 to 1920x1080), Audio Input & Output supported, H.264 Video Compression, Audio Compression G711U, 2 SATA.
6	Supply, Installation, Testing & Commissioning of two 42 inches LED Monitor with 350 NITS Brightness .
7	Supply, Installation, Testing & Commissioning of 17/42U Rack for Switch Mounting with Fan and Power Strip, PoU, Hardware Mounting Kit.
8	Supply, Installation, Testing & Commissioning of 6U Outdoor Industrial Rack for Switch Mounting with Fan and Power Strip, PoU, Hardware Mounting Kit.
9	Supply, Installation, Testing & Commissioning of Work Station of latest Intel i7 8th Generation or latest model, Processor, Intel Chipset Motherboard, 16GB DDR4 RAM, 1TB SATA HOD at 7200 rpm, 4K Graphic Card with 4 GB dedicated RAM with Quad Display Ports/DVI/ HDMI Port, DVD Writer, Giga LAN Card, Keyboard, Optical Mouse etc. Complete as required for any complete Operating System.
10	Supply, Installation, Testing & Commissioning of Media Converter Standard IEEE802.33u, 10/100/1000 Base – T, 1000 Base -SX/LX IEEE802.3ah, IEEE802.3z/ab, Flow Control IEEE8.2.3x Port Flow Control and Backpressure Control, Buffer Space 128KB, Single Mode Fiber 8/125, 8.3/125, 9/125um and Wavelength of 850 nm/1310 nm/1550 nm.
11	Supply, Installation, Testing & Commissioning of 16 GE + 2 SFP Port PoE Switch , PoE Port Output Power 15.4w/30w/IEEE802.3af/at, Protocol Standard IEEE802.3af/IEEE802.3at, Forwarding Rate 100Mbps: 14880pps /1000 Mbps:14800pps
12	Supply, Installation, Testing & Commissioning of 24 Port PoE Switch + 2 SFP Port , PoE Port Output Power 15.4w/30w/IEEE802.3af/at, Protocol Standard IEEE 802.3af/IEEE802.3at, Forwarding Rate 100Mbps: 14880pps/1000Mbps: 14800pps
13	Supply ,Installation, Testing and Commissioning of Single Mode one 1G SFP Module . Switch and SFP module should be from same OEM only.
14	Supply, Installation, Testing & Commissioning of 12/24 Port Fiber Panels (LIU) fully loaded with Pigtailes, Couplers, Splice Trays and Other Mounting Accessories.
15	Supply, Installation, Testing & Commissioning of fully loaded 8/ 24 Port Patch Panel available in 1U 24 Port Density. Jack should be covered for prevention from dust and other contaminants. Flat type metal with perforated Rear Cable Manager to hold Cables with Velcro or Cable Ties. RoHS Compliant

16	Supply, Installation, Testing & Commissioning of LC-LC Single Mode , 3 mtr Fiber Patch Cord in L.SOH Jacket, which reduces toxic/corrosive gases emitted during combustion.
17	Supply, Installation, Testing & Commissioning of 3 mtr Data Patch Cord in.
18	Supply, Installation, Testing & Commissioning of 12 Core Multi Mode Fiber Cable . Optical Fibres in water blocked loose tube, taped, corrugated Steel Tape Armoured (STA) polyethylene (preferably HDPE) outer sheathed embedded with two steel wires on the periphery. The cables should be with UV Stabilized PE Jacket and protected from Rodent attacks.
19	Supply, Installation, Testing & Commissioning of Category 6A Field Termination Plugde signed to support 10 GB Networks that can be easily terminated using parallel Jaw Pliers.
20	Supplying and Drawing 3x 1.5 sq mm sizes of PVC insulated Copper Conductor , Single Core Cable in the existing surface/ recessed steel/ PVC Conduit as required.
21	Supplying and Fixing of 25 sizes of medium class PVC Conduit alongwith accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.
22	Supply & Laying of standardized 40 mm HDPE Pipe (Medium) inside the soft soil in depth of approx. 75 cm including Bends, Inspection Box and all other material required to complete.
23	Pole 5/9 meter Galvanized Pole
24	Trenching
25	Junction Box
26	Any other Material/Equipment/Accessories and Specification thereof

Tender for work:- Installation of “Network Video Recorder (NVR) / Closed Circuit Television (CCTV) & its infrastructures at its Embassy Residence Chancery building at 116 ITAEWON-dong, Yongsan-gu, Seoul.

Section -V

Schedule of Quantity

(To be submitted by the bidder)

Section – VI

Form of Tender

(To be submitted by the Bidder in following format)

TO: **Head of Chancery**
Embassy of India
Seoul

We have examined tender conditions for the above-named work and have inspected the site and general conditions under which the Works are to be carried out. We offer to execute and complete the Works and remedy any defects therein, in conformity with this Tender, which includes all these documents for the **Fixed Price Lump Sum** of : _____

_____ **exclusive of VAT.**

If this offer is accepted we will commence the Works as soon as is practicable and complete the Works in accordance with the above-named documents within the Time for Completion.

We understand that you are not bound to accept the lowest or any tender you may receive.

Signature _____

in the capacity of -----

duly authorized to sign tenders for and on behalf of

Address:

Date: _____

FINANCIAL BoQ FOR A CCTVT SYSTEM HAVING UPTO 32 CAMERAS

(TO BE FURNISHED BY THE COMPANY AND ATTACHED WITH FINANCIAL BID)

Srl. No.	Product Description	Unit	Qty	Rate per Unit	Total Cost (Rate x Qty)
(1)	(2)	(3)	(4)	(5)	(6)
	CCTV System				
1	Supply, Installation, Testing & Commissioning of fixed Dome Indoor , 1080p or better True Day/Night Network switching IP, 2-4 MP, H.265 Dome Camera with External/Internal IR with 1/3 to 1/207" or better progressive scan. The cameras shall have a minimum illumination of 0.008 Lux@50 IRE in colour mode, 0.001 Lux@50 IRE in Black & White mode and 0 Lux with external IR along with weather protected features (Camera Should be- UL Listed)	3			
2	Supply, Installation, Testing & Commissioning of Fixed Bullet Camera with 1/3" Progressive Scan CMOS Sensor, 0.008 Lux @F1.2 Illumination with IR, Super WDR up to 120 db, 1920X1080 image resolution, H.265 (HEVC)/H.264/MJPEG Video compression alongwith weather protected features (Camera Should be- UL Listed)	14			
3	Supply, Installation, Testing & Commissioning of Motorized Bullet Camera with 1/3" Progressive Scan CMOS Sensor, 2.8 to 12 mm Motorized lens 0.008 Lux @F1.2 illumination with IR, Super WDR up to 120 db, 1920X1080 image resolution, H.265 (HEVC)/H.264/MJPEG Video Compression alongwith weather protected features.(Camera Should be- UL Listed)	NIL			
4	Supply, Installation, Testing & Commissioning of High Speed Full HD PTZ Dome 1/1.8" or better CMOS Sensor, 2-3 MP Resolution, 36 Optical Zoom, 5-120 mm focal Length, 255 Prese Position, 360 degree continuous Rotation, 8 group Cruise Track, 4 group Pattern Track, 0.01 Lux in Colour/1.01 Lux in B&W mode for minimum Illumination, H.265 Main Profile Encoding. MIPMEG/JPEG Baseline Encoding. (Camera Should be- UL Listed)	NIL			

5	Supply, Installation, Testing & Commissioning of High Speed 16 CH NVR Video Output HDMI (1440x900 to 1920x1080) VGA (1440x900 to 1920x1080) CVBS (1440x900 to 1920x1080),Audio Input & Output supported, H.264 Video Compression, Audio Compression G711U,2 SATA.					01
6	Supply, Installation, Testing & Commissioning of 42 inches LED Monitor with 350 NITS Brightness .					02
7	Supply, Installation, Testing & Commissioning of 17/42U Rack for Switch Mounting with Fan and Power Strip, PoU, Hardware Mounting Kit.					01
8	Supply, Installation, Testing & Commissioning of 6U Outdoor Industrial Rack for Switch Mounting with Fan and Power Strip, PoU, Hardware Mounting Kit.					01
9	Supply, Installation, Testing & Commissioning of Work Station of latest Intel• i7 8th Generation or latest model, Processor, Intel Chipset Motherboard, 16GB DDR4 RAM, 1TB SATA HOD at 7200 rpm, 4K Graphic Card with 4 GB dedicated RAM with Quad Display Ports/DVI/ HDMI Port, DVD Writer, Giga LAN Card, Keyboard, Optical Mouse etc. Complete as required for any complete Operating System.					01
10	Supply, Installation, Testing & Commissioning of Media Converter Standard IEEE802.33u, 10/100/1000 Base – T, 1000 Base -SX/LX IEEE802.3ah, IEEE802.3z/ab, Flow Control IEEE8.2.3x Port Flow Control and Backpressure Control, Buffer Space 128KB, Single Mode Fiber 8/125, 8.3/125, 9/125um and Wavelength of 850 nm/1310 nm/1550 nm.					01
11	Supply, Installation, Testing & Commissioning of 16 GE + 2 SFP Port PoE Switch, PoE Port Output Power 15.4w/30w/IEEE802.3af/at, Protocol Standard IEEE802.3af/IEEE802.3at, Forwarding Rate 100Mbps: 14880pps /1000 Mbps:14800pps					01
12	Supply, Installation, Testing & Commissioning of 24 Port PoE Switch + 2 SFP Port, PoE Port Output Power 15.4w/30w/IEEE802.3af/at, Protocol IEEE 802.3af/IEEE802.3at, Forwarding Rate 100Mbps: 14880pps/1000Mbps: 14800pps					01
13	Supply ,Installation, Testing and Commissioning of Single Mode one 1G SFP Module. Switch and SFP module should be from same OEM only.					01

14	Supply, Installation, Testing & Commissioning of 12/24 Port Fiber Panels (LIU) fully loaded with Pigtailed, Couplers, Splice Trays and Other Mounting Accessories.	01			
15	Supply, Installation, Testing & Commissioning of fully loaded 8/24 Port Patch Panel available in 1U 24 Port Density. Jack should be covered for prevention from dust and other contaminants. Flat type metal with perforated Rear Cable Manager to hold Cables with Velcro or Cable Ties. RoHS Compliant	01			
16	Supply, Installation, Testing & Commissioning of LC-LC Single Mode, 3 mtr Fiber Patch Cord in L.SOH Jacket, which reduces toxic/corrosive gases emitted during combustion.	01			
17	Supply, Installation, Testing & Commissioning of 3 mtr Data Patch Cord in.	01			
18	Supply, Installation, Testing & Commissioning of 12 Core Multi Mode Fiber Cable. Optical Fibres in water blocked loose tube, taped, corrugated Steel Tape Armoured (STA) polyethylene (preferably HDPE) outer sheathed embedded with two steel wires on the periphery. The cables should be with UV Stabilized PE Jacket and protected from Rodent attacks.	01			
19	Supply, Installation, Testing & Commissioning of Category 6A Field Termination Plugde signed to support 10 GB Networks that can be easily terminated using parallel Jaw Pliers.	01			
20	Supplying and Drawing 3x 1.5 sq mm sizes of PVC insulated Copper Conductor, Single Core Cable in the existing surface/ recessed steel/ PVC Conduit as required.	01			
21	Supplying and Fixing of 25 sizes of medium class PVC Conduit alongwith accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.	01			

22	Supply & Laying of standardized 40 mm HDPE Pipe (Medium) inside the soft soil in depth of approx. 75 cm including Bends, Inspection Box and all other material required to complete.	01			
23	Pole 5/9 meter Galvanized Pole	01			
24	Trenching	01			
25	Junction Box	01			
26	Any other Material/Equipment/Accessories and Specification thereof				

“UNDERTAKING”

It is hereby certified that M/s.....(Name of the Company) is capable of providing and undertakes to provide above “Specifications and Quantity” at the time of supply, installation, testing and commissioning of the CCTV System.

(Seal & Signature of the authorized Company Representative)

Name & Address:

MATRIX FOR TECHNICAL SPECIFICATIONS FOR A CCTV SYSTEM HAVING UPTO 32 CAMERA

(TO BE FURNISHED BY THE COMPANY AND ATTACHED WITH TECHNICAL BID)

Srl. No	Product Description	Unit	Qty	Whether the Company would be able to provide the given Speciation and Quantity (Yes or No)	If, not, the nearest Specification that the Company can provide.	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)
	CCTV System					
1	Supply, Installation, Testing & Commissioning of fixed Dome Indoor, 1080p or better True Day/Night Network switching IP, 2-4 MP, H.265 Dome Camera with External/internal IR with 1/3 ro 1/207" or better progressive scan. The cameras shall have a minimum illumination of 0.008 Lux@50 IRE in colour mode, 0.001 Lux@50 IRE in Black \$ White mode and 0 Lux with external IR along with weather protected features (Camera Should be- UL Listed)	3	3			

2	Supply, Installation, Testing & Commissioning of Fixed Bullet Camera with 1/3” Progressive Scan CMOS Sensor, 0.008 Lux @F1.2 Illumination with IR, Super WDR up to 120 db, 1920X1080 image resolution, H.265 (HEVC)/H.264/MJPEG Video compression alongwith weather protected features (Camera Should be- UL Listed)	01	14			
3	Supply, Installation, Testing & Commissioning of High Speed Full HD PTZ Dome 1/1.8” or better CMOS Sensor, 2-3 MP Resolution, 36 Optical Zoom, 5-120 mm focal Length, 255 Prese Position, 360 degree continuous Rotation, 8 group Cruise Track, 4 group Pattern Track, 0.01 Lux in Colour/1.01 Lux in B&W mode for minimum Illumination, H.265 Main Profile Encoding. MJPMPEG/JPEG Baseline Encoding. (Camera Should be- UL Listed)	0	0			
4	Supply, Installation, Testing & Commissioning of High Speed 32 CH NVR Video Output HDMI (1440x900 to 1920x1080) VGA (1440x900 to 1920x1080) CVBS (1440x900 to 1920x1080),Audio Input & Output supported, H.264 Video Compression, Audio Compression G711U,2 SATA.	0	<u>01</u>			

5	Supply, Installation, Testing & Commissioning of 43 inches LED Monitor with 350 NITS Brightness .	01	02		
6	Supply, Installation, Testing & Commissioning of 17/42U Rack for Switch Mounting with Fan and Power Strip, PoU, Hardware Mounting Kit.	01	01		
7	Supply, Installation, Testing & Commissioning of Work Station of latest Intel• i7 8th Generation or latest model, Processor, Intel Chipset Motherboard, 16GB DDR4 RAM, 1TB SATA HOD at 7200 rpm, 4K Graphic Card with 4 GB dedicated RAM with Quad Display Ports/DVI/ HDMI Port, DVD Writer, Giga LAN Card, Keyboard, Optical Mouse etc. Complete as required for any complete Operating System.	01	01		
8	Supply, Installation, Testing & Commissioning of Media Converter Standard IEEE802.33u, 10/100/1000 Base - T, 1000 Base -SX/LX IEEE802.3ah, IEEE802.3z/ab, Flow Control IEEE8.2.3x Port Flow Control and Backpressure Control, Buffer Space 128KB, Single Mode Fiber 8/125, 8.3/125, 9/125um and Wavelength of 850 nm/1310 nm/1550 nm.	01	01		

9	Supply, Installation, Testing & Commissioning of 16 GE + 2 SFP Port PoE Switch, PoE Port Output Power 15.4w/30w/IEEE802.3af/at, Protocol Standard IEEE802.3af/IEEE802.3at, Forwarding Rate 100Mbps: 14880pps /1000 Mbps:14800pps	01	01	01			
10	Supply, Installation, Testing & Commissioning of 24 Port PoE Switch + 2 SFP Port, PoE Port Output Power 15.4w/30w/IEEE802.3af/at, Protocol Standard IEEE 802.3af/IEEE802.3at, Forwarding Rate 100Mbps: 14880pps/1000Mbps: 14800pps	01	01	01			
11	Supply ,Installation, Testing and Commissioning of Single Mode one 1G SFP Module. Switch and SFP module should be from same OEM only.	01	01	01			
12	Supply, Installation, Testing & Commissioning of 12/24 Port Fiber Panels (LIU) fully loaded with Pigtails, Couplers, Splice Trays and Other Mounting Accessories.	01	01	01			
13	Supply, Installation, Testing & Commissioning of fully loaded 8/ 24 Port Patch Panel available in 1U 24 Port Density. Jack should be covered for prevention from dust and other contaminants. Flat type metal with perforated Rear Cable Manager to hold	01	01	01			

	Cables with Velcro or Cable Ties. RoHS Compliant								
14	Supply, Installation, Testing & Commissioning of LC-LC Single Mode, 3 mtr Fiber Patch Cord in L.SOH Jacket, which reduces toxic/corrosive gases emitted during combustion.	01	01	01	As per requirement				
15	Supply, Installation, Testing & Commissioning of 3 mtr Data Patch Cord in.	01	01	01	As per requirement				
16	Supplying and Drawing 3x 1.5 sq mm sizes of PVC insulated Copper Conductor, Single Core Cable in the existing surface/ recessed steel/ PVC Conduit as required.	01	01	01	As per requirement				
17	Supplying and Fixing of 25 sizes of medium class PVC Conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.	01	01	01	As per requirement				
18	Pole 5/9 meter Galvanized Pole	01	01	01	01				
19	Trenching	01	01	01	01				
20	Waterproof Junction Box	04	01	01	01				
21	Display Port display switch	01	01	01	01				
22	Aluminum Conduit 20T	01	01	01	As per requirement				

23	Electric Wire 2.0 Set 8T	01	As per requirement		
24	Copper Cable 10T	01	As per requirement		
25	Copper BNC connector	01	40		
26	Dome Camera guide	1	10		
27	Camera Wall mount	01	03		
28	Anchor Bolt 12M	01	As per requirement		
29	Any other Material/Equipment/Accessories and Specification thereof				

“UNDERTAKING”

It is hereby certified that M/s.....(Name of the Company) is capable of providing and undertakes to provide above “Specifications and Quantity” at the time of supply, installation, testing and commissioning of the CCTV System.

(Seal & Signature of the authorized Company Representative)

Name & Address: