



PRICE BID

Supply , Installation, Testing & Commissioning of Centralized HUB for CCTV, Networking, EPABX, Public Address System & allied works at Indian Bank,Head Office, Main Building, No:66, Rajaji Salai, Chennai 600 001.

Date: 27.11.2020





Supply , Installation, Testing & Commissioning of CCTV, Networking, EPABX, Public Address System & allied works at Indian Bank,Head Office, Main Building, No:66, Rajaji Salai, Chennai 600 001.

| Section A - Fourth Floor - CCTV system | | | | | | | | |
|--|---|-----|------|--------------------|--------|-------------------------|--------|---|
| S.No | ITEM DESCRIPTION | Qty | UOM | Supply (in Rs) | | Installation (in Rs) | | Total (Supply + Installation) (in Rs) |
| | | | | Rate | Amount | Rate | Amount | |
| 1.01 | Supply , Installation , Testing & Commissioning of 2 MP IR IP Dome Camera | 14 | No.s | | | | | |
| 1.02 | Supply , Installation , Testing & Commissioning of CCTV Camera Accessories required for complete installation | 14 | No.s | | | | | |
| 1.03 | Supply , Installation , Testing & Commissioning of 24-Port Smart Managed POE Gigabit Switch with all accessories | 1 | No.s | | | | | |
| 1.04 | Supply , Installation , Testing & Commissioning of Cat6 24 Port Fully Loaded Patch Panel with all accessories | 1 | No.s | | | | | |
| 1.05 | Supply , Installation , Testing & Commissioning of Cat6 Patch Cable - 1 Metre with all accessories | 14 | No.s | | | | | |
| 1.06 | Supply , Installation , Testing & Commissioning of CAT6 Cable in 25mm PVC Conduit with Wall/Ceiling Clamping as layout shared by the Architect with all accessories | 915 | Mtrs | | | | | |



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|------------------------------------|---|-----|------|--|--|--|--|--|
| 1.07 | Supply , Installation , Testing & Commissioning of Wall Mount 12U x 500 W x 450 D , Front Glass Door with Lock, 2 pairs of 19" Mounting Rails :- Standard Accessories :- 1U Cable Manager, Roof Mounted Fan Unit / 90 CFM /230V AC, 6 Way 5 Amp Power Distribution Unit, Mounting Hardware with all accessories | 1 | No.s | | | | | |
| 1.08 | Supply , Installation , Testing & Commissioning of 6 Core Single Mode Armoured Optic Fibre Cable with - To CCTV Ground Floor Hub with all accessories | 100 | Mtrs | | | | | |
| 1.09 | Supply , Installation , Testing & Commissioning of Necessary for 6 core OFC - 12 Core rack mounted Fully Loaded LIU, Core Splicing, Patch Cables, SFP Module & OFC connectors for connectivity to 1st Floor Hub | 1 | LS | | | | | |
| Sub Total (A) (Exclusive of taxes) | | | | | | | | |

| Section B- Fourth Floor - NETWORKING | | | | | | | | |
|--------------------------------------|--|-----|------|----------------|--------|----------------------|--------|--|
| S.No | ITEM DESCRIPTION | Qty | UOM | Supply (in Rs) | | Installation (in Rs) | | Total (Supply + Installation) (in Rs) |
| | | | | Rate | Amount | Rate | Amount | |
| 2.01 | Supply , Installation , Testing & Commissioning of 24-Port Smart Managed Gigabit Switch with all accessories | 13 | No.s | | | | | |



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|------------------------------------|--|-----|------|--|--|--|--|--|
| 2.02 | Supply , Installation , Testing & Commissioning of Rack 27U 600Wx1000D Floor Mount Network Rack with Accessories :: (1) 90 CFM Fan-2 Nos. (2) 1U Cable Manager-2 Nos. (3) 10 Socket 6/16A PDU-1 Nos. (4) Monitor 475D Tray -1 Nos. (5) Mounting Hardware packet of 20Nos with all accessories | 2 | No.s | | | | | |
| 2.03 | Supply , Installation , Testing & Commissioning of Wall Mount 12U x 500 W x 450 D , Front Glass Door with Lock, 2 pairs of 19" Mounting Rails :- S t a n d a r d A c c e s s o r i e s : - 1U Ca b l e Manager, Roof Mounted Fan Unit / 90 CFM /230V AC, 6 Way 5 Amp Power Distribution Unit, Mounting Hardware with all accessories | 1 | No.s | | | | | |
| 2.04 | Supply , Installation , Testing & Commissioning of Cat 6 24 Port Loaded Patch Panel with all accessories | 13 | No.s | | | | | |
| 2.05 | Supply , Installation , Testing & Commissioning of Cat 6 patch cable - 1 Metre with all accessories | 150 | No.s | | | | | |
| 2.06 | Supply , Installation , Testing & Commissioning of Cat 6 patch cable - 2 Metres with all accessories | 150 | No.s | | | | | |
| 2.07 | Supply , Installation , Testing & Commissioning of Cat 6 patch cable - 2 Metres (End User Side) with all accessories | 288 | No.s | | | | | |
| Sub Total (B) (Exclusive of taxes) | | | | | | | | |

Section C - Fourth Floor - EPABX

| S.No | ITEM DESCRIPTION | Qty | UOM | Supply (in Rs) | Installation (in Rs) | Total (Supply + Installation) (in Rs) |
|------|------------------|-----|-----|----------------|----------------------|--|
|------|------------------|-----|-----|----------------|----------------------|--|



| | | | | Rate | Amount | Rate | Amount | |
|------------------------------------|---|-----|------|------|--------|------|--------|--|
| 3.01 | Supply , Installation , Testing & Commissioning of 20 pair Cable x 5 Armoured Cable with necessary clamping /termination arrangements (To 1st Floor Hub 20) with clamping and all required accessories | 100 | Mtrs | | | | | |
| 3.02 | Supply , Installation , Testing & Commissioning of Cat6 24 Port Loaded Patch Panel and all accessories | 6 | No.s | | | | | |
| 3.03 | Supply , Installation , Testing & Commissioning of fully loaded Krone box for 100 x 2 connections and accessories. (One Krone (100 no.s) for Incoming and outgoing connections and all accessories | 1 | LS | | | | | |
| 3.04 | Supply , Installation , Testing & Commissioning of Analog Telephone with Speaker and all accessories | 144 | No.s | | | | | |
| 3.05 | Supply , Installation , Testing & Commissioning of IP Phone with all accessories | 20 | No.s | | | | | |
| Sub Total (C) (Exclusive of taxes) | | | | | | | | |

Section D- Fourth Floor - PUBLIC ADDRESS SYSTEM

| S.No | ITEM DESCRIPTION | Qty | UOM | Supply (in Rs) | | Installation (in Rs) | | Total (Supply + Installation) (in Rs) |
|------|--|-----|------|----------------|--------|----------------------|--------|---------------------------------------|
| | | | | Rate | Amount | Rate | Amount | |
| 4.01 | Supply , Installation , Testing & Commissioning of Ceiling Speakers - 6W | 51 | No.s | | | | | |



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|---|---|------|------|--|--|--|--|--|
| 4.02 | Supply , Installation , Testing & Commissioning of 0.75sq.mm Speaker Cable / CAT6 Cable in 25mm PVC Conduit. Junction box with on/off switch to be connected in the fourth floor. From fourth floor Junction box , one 2 x 0.75 sq.mm cable needs to be connected to the 1st floor hub. | 1800 | Mtrs | | | | | |
| Sub Total (D) (Exclusive of Taxes) | | | | | | | | |

Section E- Ground Floor Hub for CCTV

| S.No | ITEM DESCRIPTION | Qty | UOM | Supply (in Rs) | | Installation (in Rs) | | Total (Supply + Installation) (in Rs) |
|------|--|-----|------|----------------|--------|----------------------|--------|---------------------------------------|
| | | | | Rate | Amount | Rate | Amount | |
| 5.01 | Supply, Installation, Testing & Commissioning of 16 Channel NVR with 4 SATA Slot | 6 | No.s | | | | | |
| 5.02 | Supply, Installation, Testing & Commissioning of 6TB Surveillance Hard Disk. Minimum 25 days back up for all cameras | 24 | No.s | | | | | |
| 5.03 | Supply, Installation, Testing & Commissioning of 24-Port smart managed Gigabit Switch | 1 | No.s | | | | | |
| 5.04 | Supply, Installation, Testing & Commissioning of Cat6 24 Port Loaded Patch Panel | 1 | No.s | | | | | |
| 5.05 | Supply, Installation, Testing & Commissioning of Cat 6 patch cable - 1 Metre | 10 | No.s | | | | | |



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|---|--|----|--------|--|--|--|--|--|
| 5.06 | Supply, Installation, Testing & Commissioning of Rack 42U 800Wx1000D Floor Mount Network Rack with Accessories :: (1) 90 CFM Fan-2 Nos. (2) 1U Cable Manager-2 Nos. (3) 10 Socket 6/16A PDU-1 Nos. (4) Monitor 475D Tray -1 Nos. (5) Mounting Hardware packet of 20Nos | 1 | No.s | | | | | |
| 5.07 | Supply, Installation, Testing & Commissioning of 6 Core Single Mode Armoured Optic Fibre Cable - 50Mtrs | 50 | meter | | | | | |
| 5.08 | Supply, Installation, Testing & Commissioning of Necessary for 6 core OFC - 6 Core Fully Loaded LIU, 6 Core Splicing, Patch Cables, SFP Module & OFC connectors for connectivtiy to CCTV | 1 | LS | | | | | |
| 5.09 | Supply, Installation, Testing & Commissioning of AIO PC (i5/8GB/1TB/Win10) for Security Monitoring (on prior approval from client before procurement and delivery). | 1 | No.s | | | | | |
| 5.10 | Supply, Installation, Testing & Commissioning of 55inch Commercial Display | 1 | No.s | | | | | |
| 5.11 | Supply, Installation, Testing & Commissioning of HDMI Cable Male-Male - 20 Mtrs with neccesary Conduits and wall/ceiling mounting for connecting AIO PC to Commercial Display | 20 | Meters | | | | | |
| Sub Total (E) (Exclusive of Taxes) | | | | | | | | |



Section : F - NETWORKING - To be integrated & connected in the 2nd Floor IT Network

| S.No | ITEM DESCRIPTION | Qty | UOM | Supply (in Rs) | Installation (in Rs) | Total (Supply + |
|------|------------------|-----|-----|----------------|----------------------|-----------------|
|------|------------------|-----|-----|----------------|----------------------|-----------------|

| | | | | Rate | Amount | Rate | Amount | Installation) (in Rs) |
|--------------------------------------|--|----|-------|------|--------|------|--------|--------------------------|
| 6.01 | Supply, Installation, Testing & Commissioning of Rack 42U 800Wx1000D Floor Mount Network Rack with Accessories :: (1) 90 CFM Fan-2 Nos. (2) 1U Cable Manager-2 Nos. (3) 10 Socket 6/16A PDU-1 Nos. (4) Monitor 475D Tray -1 Nos. (5) Mounting Hardware packet of 20Nos | 1 | No.s | | | | | |
| 6.02 | Supply, Installation, Testing & Commissioning of 24-Port Smart Managed POE Gigabit Switch | 1 | No.s | | | | | |
| 6.03 | Supply, Installation, Testing & Commissioning n of Cat6 24 Port Loaded Patch Panel | 1 | No.s | | | | | |
| 6.04 | Supply, Installation, Testing & Commissioning of Cat 6 patch cable-1 Metre | 10 | No.s | | | | | |
| 6.05 | Supply, Installation, Testing & Commissioning of 6 Core Single Mode Optic Fibre Cable with - 40Mtrs - To Networking Hub in 2nd floor. | 40 | meter | | | | | |
| 6.06 | Supply, Installation, Testing & Commissioning of Necessary for 6 core OFC - 6 Core Fully Loaded LIU, 6 Core Splicing, Patch Cables, SFP Module & OFC connectors for connectivtiy to 2nd Floor It Network | 1 | LS | | | | | |
| Sub Total (F) (Exclusive of Taxes) | | | | | | | | |



Section G- 1st Floor - EPABX Common Hub for the entire building

| S.No | ITEM DESCRIPTION | UOM | Supply (in Rs) | Installation (in Rs) | Total (Supply + |
|------|------------------|-----|-------------------|-------------------------|--------------------|
|------|------------------|-----|-------------------|-------------------------|--------------------|

| | | | Rate (in Rs) | Amount (in Rs) | Rate (in Rs) | Amount (in Rs) | Installation) (in Rs) |
|------|---|--|-----------------|-------------------|-----------------|-------------------|--------------------------|
| 7.01 | <p>Supply, Installation, Testing & Commissioning of EPABX. <u>THE SYSTEM SHOULD BE FULLY LOADED AND FULLY FUNCTIONAL FOR 3 PRI LINE INPUT, 1000 ANALOG CONNECTIONS AND 120 DIGITAL CONNECTIVITY FROM DAY ONE. IT SHOULD INCLUDE ALL NECESSARY ANALOG CARDS, DIGITAL CARDS AND REQUIRED SOFTWARE.</u> The communication system should be latest state of art new generation SIP based for converged IP telephony deployment. Communication System should be scalable, distributable and modular with operating system. System shall employ IP at its core with IP switching technology and 100% non-blocking. System shall be converged communication with ability to run TDM and IP on the same platform, it should support Analog, Digital, IP Telephones, mobile smart clients, PC UC clients & SIP based video desk phones. The architecture of the System shall be capable of seamless migration to its maximum capacity by simply adding peripherals cards in the same chassis without compromising function/features of the system. The architecture should be non-stackable eliminating individual power supply for each chassis. All the peripheral cards should be hot-swappable. I.e. it should be possible to replace a peripheral card while system power is on. The System should provide duplication for power supply as well as for Control Cards configured in Hot Standby Mode. In the event of failure of primary power supply or control Card, the standby set should automatically and transparently take over, without any disruption of services or disconnection of ongoing calls.</p> | | | | | | |



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|--|---|------|--|--|--|----|
| | <p>It should be possible to remove the power supply or control card in Power on condition for maintenance without affecting functioning of the system. The communication system shall have multiple port interfaces such as analog extension lines, digital key phone, IP Extension, C.O. Line, GSM/3G, E & M Line, PRI/E1 and VoIP. All interfaces shall be in the form of expansion cards and can be plugged into the universal slots of the system as and when require in the future. VoIP and Voice mail server should not consume any universal slot..</p> | 1 no | | | | LS |
| | <p>The system should have the capacity of 1000 Analog extensions, 3 PRI Lines and 120 digital IP extensions expandable to upto 1500 IP extension in future on the same platform without adding any cabinet and with single power supply.</p> | | | | | |
| | <p>Telephone point from end user location to be connected to a crown box in each floor.</p> | | | | | |
| | <p>System should have the redundant power supply within the cabinet itself.</p> | | | | | |
| | <p>Integration with existing EPABX to be done or the cabling needs to be connected to the new EPABX for connection of extensions and call functionality.</p> | | | | | |
| | <p>The system should come with 1 Year Comprehensive Warranty which includes the Chasis and the add on cards installed in the system and all the accessories.</p> | | | | | |



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| | Sub Total (G) - (Exclusive of Taxes) | | | | | | |
|--|---------------------------------------|--|--|--|--|--|--|

Section H- 1st floor - PUBLIC ADDRESS SYSTEM- Common Hub for the entire building

| S.No | ITEM DESCRIPTION | Qty | UOM | Supply (in Rs) | | Installation (in Rs) | | Total (Supply +Installation) (in Rs) |
|------|--|-----|------|----------------|----------------|----------------------|----------------|--------------------------------------|
| | | | | Rate (in Rs) | Amount (in Rs) | Rate (in Rs) | Amount (in Rs) | |
| 8.01 | Supply, Installation, Testing & Commissioning of 500 watts Amplifier with all accessories . Provision to be made for connecting the wires from all the floors to the amplifier with complete set. (Common for all the floors) | 2 | No.s | | | | | |
| 8.02 | Supply, Installation, Testing & Commissioning of 8 zone paging system (minimum) including Paging console, Paging selector, Controller for connectivity to every floor (To be placed in First Floor) . Paging microphone to be connected to Security Area (To be placed in Ground Floor) including cabling with 25 mm conducting of required size from the First Floor to Ground Floor and all accessoires required for connecting to the PA system. | 1 | No.s | | | | | |
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| | Sub Total - H (Exclusive of Taxes) | | | | | | | |

| Sl.No | Section: I - 1st Floor - EPABX works for Inspection dept. | Qty | Unit | Supply (in Rs) | | Installation (in Rs) | | Total (Supply + Installation) (in Rs) |
|-------|---|-----|------|----------------|----------------|----------------------|----------------|---------------------------------------|
| Sl.No | Description | | | Rate (in Rs) | Amount (in Rs) | Rate (in Rs) | Amount (in Rs) | |
| | | | | | | | | |



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|--------------|--|-------------|------------|---------------------|-----------------------|---------------------|-----------------------|--|
| 9.01 | Supply, Laying, testing and commissioning of Analogue Telephone with speaker (Including Patch Card & all accessories for from RJ45 Socket to Instruments) and all accessories. | 46 | Set | | | | | |
| 9.02 | Supply, Laying, testing and commissioning of Digital Phone (Including Patch Card For from RJ45 Socket & all accessories to Instruments) and all accessories. | 3 | Set | | | | | |
| 9.03 | Supply, Laying, testing and commissioning of MDF Krone Box with Krone module (50 Pair) and all accessories. | 1 | No. | | | | | |
| 9.04 | Supply , Installation , Testing & Commissioning of 20 pair Armoured Cable (To 1st Floor Hub) with clamping and all accessories | 40 | meters | | | | | |
| | Sub Total - (I) (exclusive of taxes) | | | | | | | |
| | Section - J- 1st Floor - Networking work for Inspection dept. | | | | | | | |
| SL NO | DESCRIPTION OF WORKS | UNIT | QTY | Supply | | Installation | | Total (Supply + Installation) (in Rs) |
| | | | | Rate (in Rs) | Amount (in Rs) | Rate (in Rs) | Amount (in Rs) | |
| 10.01 | Supply, Installation, Testing and Commissioning of Patch Cords - 2 meter and all accessories | Nos. | 48 | | | | | |
| 10.02 | Supply, Installation, Testing and Commissioning of Patch Cords - 1 meter and all accessories | Nos. | 48 | | | | | |



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|-------|--|-------|-----|--|--|--|--|--|
| 10.03 | Supply, Installation, Testing and Commissioning of Cat 6, 24 Port Loaded Jack Panel and all accessories. | No | 2 | | | | | |
| 10.04 | Supply, Installation, Testing & Commissioning of CAT 6 cable in 25 mm PVC conduit with all necessary accessories to be connected to the rack in the 2nd floor IT Networking server) and all accessories (To be procured based on approval from client). | meter | 100 | | | | | |
| 10.05 | Supply, Installation, Testing and Commissioning of Networking Rack (19U with 5/15 PDU, Cable manager, Fan, Tray etc. | Nos. | 1 | | | | | |
| 10.06 | Supply, Installation, Testing and Commissioning of Networking Switch (24 Port - managed) and all accessories. | Nos. | 2 | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | Sub Total -(J) (exclusive of taxes) | | | | | | | |

Section K- 1st Floor - Public Address System for Inspection dept.

| SL NO | DESCRIPTION OF WORKS | UNIT | QTY | Supply | | Installation | | Total (Supply + Installation) (in Rs) |
|-------|---|------|-----|-----------------|-------------------|-----------------|-------------------|--|
| | | | | Rate (in Rs) | Amount (in Rs) | Rate (in Rs) | Amount (in Rs) | |
| | PUBLIC ADDRESS SYSTEM | | | | | | | |
| 11.01 | Supply, Installation, Testing and Commissioning of 6Watt Ceiling Mounting Speaker etc., | Nos. | 17 | | | | | |
| 11.02 | Supply, Installation, Testing and Commissioning of Volume Controls | Nos. | 3 | | | | | |
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|-------|---|------|-----|--|--|--|--|--|
| 11.03 | Supply, Installation, Testing and Commissioning of IT Rack Metal Box arrangement and required hardwares etc. | No | 1 | | | | | |
| 11.04 | Supply and wiring of 2 X 1.5sq.mm FRLS Copper Armoured cable with necessary support/ clamping arrangement. To be connected in the Amplifier of First Floor Common Public Address System Hub . Required accessories, connectors etc also to be provided for connecting with common Public Address System HUB | Mtrs | 400 | | | | | |
| | | | | | | | | |
| | Sub Total - K (exclusive of taxes) | | | | | | | |

SECTION - L - 1st Floor - CCTV SYSTEM for Inspection dept.

| SL.No. | DESCRIPTION OF WORK | QTY. | UNIT | Supply (in Rs) | | Installation (in Rs) | | Amount (in Rs) |
|--------|--|------|------|----------------|----------------|----------------------|----------------|----------------|
| | | | | Rate (in Rs) | Amount (in Rs) | Rate (in Rs) | Amount (in Rs) | |
| 12.01 | Supply, installation, connecting, testing and commissioning of 20 Meter IP Indoor IR camera, Progressive Scan CMOS, DUAL Stream, Smart IR LED, , POE ENABLED, 2MP. | 5 | Nos | | | | | |
| 12.02 | Supply, Installation, Testing & Commissioning of CAT 6 cable in 25 mm PVC conduit (To be procured based on approval from client). | 250 | Mt | | | | | |
| 12.03 | Supply & Installation of Necessary for 6 core LIU, Splicing, Patch Cable & OFC connector for connectivtiy to CCTV (To be procured based on approval from client). | 1 | LS | | | | | |
| | | | | | | | | |
| | Sub Total - L (exclusive of all taxes) | | | | | | | |
| | | | | | | | | |
| | Grand Total (A+B+C+D+E+F+G+H+I+J+K+L) (exclusive of taxes) | | | | | | | |

