

केनरा बैंक

केनरा बैंक Canara Bank 
भारत सरकार का उपक्रम A Government of India Undertaking

 **सिंडिकेट Syndicate**

**REQUEST FOR PROPOSAL
(Notice Inviting Tender)**

RFP NO.- PCO:P&E:EMP:1453:2023-24 dated 26.12.2023

FOR

**EMPANELMENT OF VENDORS & STANDARIZATION OF RATES
: FOR SUPPLY, INSTALLATION, TESTING & COMMISSIONING, AMC OF
CCTV, FIRE ALARM, BURGLARY ALARM & FIRE EXTINGUISHERS
REFILING/INSTALLATION.**

**AT BRANCHES/OFFICES UNDER CANARA BANK
CIRCLE OFFICE KOLKATA**

ISSUED BY

CANARA BANK CIRCLE OFFICE KOLKATA

PREMISES & ESTATE SECTION

**BELLS HOUSE, 21 CAMAC ST, KANKARIA, KOLKATA, PARK STREET-
700016**

EMAIL - pecokol@canarabank.com

TELEPHONE -033- ; +91 8334991789

Total Pages: 50.

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Empanelment of Vendors/Firms/Suppliers for supply, Installation & Maintenance(AMC) of CCTV System , Burglar Alarm System, Fire Alarm systems and Fire Extinguishers refilling/installation in the Administrative Offices/Branches/Chests / ATMs under Canara Bank, Circle office, kolkata.

Canara Bank, kolkata Circle Office invites **sealed quotation (Technical bids) and Financial bid with Rates for Security and Fire Safety equipments (For standardization) for empanelment of vendors/Firms/Suppliers** for empanelment of vendors for supply, installation and maintenance of Fire Alarm system, Burglar alarm System, CCTV system ,Fire Fighting Equipments viz Fire extinguishers in the Branches/ATMS/Offices under kolkata Circle Office on as and when required basis from the **Reputed Agency/Manufacturer/Authorized dealers having not less than 3 years of Experience in the product offered and fulfill the following Mandatory conditions/requirements.**

Responsibility of Procurement (as and when required) and maintenance of security equipments maintenance of CCTV /Fire/ Burglar Alarm system, Fire Fighting Equipments viz Fire extinguishers for approximately **428 plus** branches/offices / chests of Canara Bank , Kolkata Circle Office spread in Kolkata State.

RFP Forms can be downloaded from website and can be submitted along with the Technical/financial bid on payment of Demand Draft of Rs.1000/- (One Thousand only) favouring “ Canara Bank, Circle Office” Payable at Kolkata. Alternatively, the document can also be downloaded from the website of Bank www.canarabank.com and the document fee of Rs.1000/- as detailed above (in the form of DD) may be submitted along with the duly filled document. The document submitted without the prescribed fee will be liable for rejection. Applicants who have already paid Rs.1000/-, while purchasing the application directly from our office, need not enclose DD while submitting the filled in application form.

EARNEST MONEY DEPOSIT (EMD):

The bidder shall have to deposit earnest money in the form of DD/BG of Rs. 50,000.00 (Rupees Fifty Thousand only) for CCTV/Alarm System and Rs. 20,000.00 (Rupees Twenty Thousand only) for Fire Extinguishers in favour of Canara Bank, Circle Office Kolkata. It should be valid for one year from last date of submission of bid. The period of EMD can be extended further as per Bank's requirements with reference of RFP processing. Format of EMD/Bank Guarantee may be obtained from Circle Office, Kolkata.

The EMD shall be released/ returned to all the bidders except successful bidders after finalization of Empanelment process. **In case of successful bidders the EMD shall be released after receipt of requisite Performance Guarantee (eg 3 % of total work order value for 3 years).** In case of unsuccessful bidders, EMD shall be returned to any representative from the firm on production of authority letter & Receipt in Company Letter Head, Authorized by Signatory Specified in the Bid Document. Proper receipt in letter head signed by the Authorized Signatory & specifying the authorization letter. The EMD submitted to the Bank may be invoked and amount forfeited in case the bidder backs out from the offers made by it under empanelment process after being declared as successful Security Vendor.

If any firm is exempted by the Govt Authorities with regard to registration with NSIC/ MSME etc, notarized copy of these sanctions issued by such authority in the name of the firm shall be enclosed. In case any financial limit is specified in the sanction, the Firm shall submit an undertaking that the sanction is still valid as the limit is not exhausted.

LAST DATE OF SUBMISSION:

Sealed envelopes to be submitted on or before **22.01.2024 up to 03:00 PM**. Technical and financial bids are to be kept in separate envelopes and submitted with a bigger envelope with both the bids. All pages should be submitted duly filled, signed & stamped. The sealed tenders must be dropped in the Tender Box and shall be addressed to “**The Assistant General Manager, Premises & Estate Section,**

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Canara Bank Circle Office,bells house,21 Camac st ,park street, kankaria estate, Kolkata - 700016” with super-scribed as “Offer cum Empanelment for CCTV, FIRE ALARM, BURGLARY ALARM(in one envelope) and FIRE EXTINGUISHERS(separately)”

DATE OF OPENING:

Technical Bid will be opened on or after **30.01.2024** at 11:30 pm. A mail will be intimated on the office id.

In case of any unavoidable circumstances the tender shall be opened on the next working day.

PRE BID MEETING

Pre Bid meeting for the above Tender will be conducted on **03.01.2024** at 12 : 30 pm at Circle office address.

NOTE:

- i) The Bank reserves the right to accept or reject any or all the applications without assigning any reasons thereof and their decision of selection will be final.
- ii) Vendors applying for CCTV, Fire Alarm and Burglary Alarm have to apply for all together. Applying for only one of the items will not be considered. This mean empanelment shall be done for category of vendor dealing with CCTV/Alarm System both.
- iii) Vendors applying for Fire Extinguishers can apply separately.



All corrigendum/amendments in respect of this tender if any will be displayed on bank’s website only and no paper advertisement will be released. All interested vendor to monitor the bank website for any addendum/amendments till **21.01.2024**.

“In case of any unexpected interruption due to events beyond control of the procurement committee, the process interrupted will be continued on the subsequent working day at the scheduled time.”

For details and application form, please visit bank website:
<http://www.canarabank.com/announcements/tenders> invariably.

Date: 26.12.2023

ASSISTANT GENERAL MANAGER

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GENERAL RULES AND INSTRUCTIONS TO THE INTENDING APPLICANTS:

1. The empanelment of vendors is proposed for the (CCTV/Fire/ Security/Burglar alarm system and Fire Extinguishers) at Branches / Offices / Chests of the Bank coming under the Kolkata Circle office. Generally, the routine works of the Bank are awarded/procurements are made as per Standardized rates. However, the Bank has the right to award the work/procure supply from any of the empanelled agencies, depending on the exigencies of the work.
2. This document consists of the following:
 - a) Notice inviting applications for empanelment of Security Items vendor/supplier.
 - b) General rules and instructions to the intending applicants
 - c) Scope, eligibility criteria & general terms & conditions for each category.
 - d) Tender Offer
 - e) Application format for empanelment
 - f) Check list of documents furnished.
 - g) Technical Specifications
 - h) Price Bid
3. **The document as detailed above in (a) to (e), complete in all respects, should be submitted** by the intending applicants within the stipulated date and as per the instructions given in the Notice inviting applications. The details of the applicants and their experience shall be furnished in the prescribed “Application Format” only. Wherever required and if the space provided is not sufficient, particulars can be furnished in Annexures but such details shall be clearly mentioned in the respective columns of the Application Format. Applicant shall enclose latest copies of brochures and technical documentation giving additional information about the applicant. Each page of the document shall be duly signed by the Applicant or their authorized representative.
4. No costs incurred by the applicant in applying, in providing necessary clarifications or attending discussions, conferences or site visits will be reimbursed by the Bank.
5. Documentary proof with respect to the details furnished in the application form regarding eligibility criteria shall be furnished along with the application form. In this regard, copies of the work order and completion certificate and/or such documents shall be submitted. **Incomplete applications or applications without proper proofs for establishing their credentials will be summarily rejected and no correspondence will be entertained in this regard.**
6. If the application is made by a partnership firm, a certified copy of the partnership deed, current address of the firm and the full names and current addresses of all the partners of the firm shall also accompany the application.

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7. If the application is made by a limited company, it shall be signed by a duly authorized person holding the power of attorney for signing the application in which case certified copies of the power of attorney and the certification of incorporation, Memorandum of Articles of Association shall accompany the application.
8. The empanelment shall be made for a specific product category; however one vendor can be empanelled for both category if they are eligible.
9. The evaluation will be based on the experience of the contractors / suppliers and their financial capabilities and may also include inspecting the works furnished by them for which, necessary co-ordination shall be made by them. Based on the details furnished and inspection of works, eligibility criteria, the consultants/ contractors/ suppliers will be empanelled. **Decision of the Bank regarding selection / rejection for empanelment will be final and binding and no further correspondence will be entertained. The empanelled contractors will only be informed by post / email.**
10. If, information and details furnished by applicants are found to be false at any time in future or any information withheld, which comes to the notice of the Bank at a later date, the empanelment of such applicant will be cancelled immediately.
11. Application received after the due date and time is liable for rejection.
12. The vendors/ contractors/suppliers having their registered / local office in the geographical jurisdiction of the Circle office (preferably in Kolkata) and sub office in the concern Regional office(will be preferred) will only be considered. The empanelment shall be valid for a minimum period of Three years after assessment on yearly basis.
13. Canara Bank reserves its right to reject any / or all the applications without assigning any reasons whatsoever.
14. The vendor assessment will be final post physical clearance of demonstration of equipment at circle office.
15. The vendor must furnished training of their staff from the Concern OEM.
16. Review from other Public Sector Bank/ organization will be taken for final selection of vendor.
17. **Existing empanelled agency** need to apply again. If we are not getting proper response from such empanelled vendor then Bank have right reject their empanelment request.

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SCOPE, AND ELIGIBILITY CRITERIA FOR CONTRACTORS

A. SCOPE OF WORK:

New Installation and Annual Maintenance Contract for new as well as existing Security equipments (Fire Alarm system, Burglar alarm System, CCTV system, Fire Fighting Equipments viz Fire extinguishers) and buy back of any system of “Fire Alarm System with Auto Dialer, Burglar alarm System, CCTV System, Fire Fighting Equipments installed at Branches / Offices / Chests of Canara Bank, Under Circle office Kolkata on as and when required basis. The Vendor will maintain all Security equipment (irrespective of Make and Model) installed earlier in the branches/ATMs & offices at the quoted rates.

B. ELIGIBILITY CRITERIA:

For this purpose Vendors/Firms/Suppliers shall submit proof of documents along with the Tender, if Vendors/Firms/Suppliers are not submitting documentary proof and / or not conforming to any of these parameters will not qualify for empanelment or short listing:

- Technical bid along with supporting documents should be in sealed envelope duly superscripted “TECHNICAL BID FOR SUPPLY, INSTALLATION AND MAINTENANCE OF SECURITY & FIRE SAFETY SYSTEMS” (Whichever is applicable).
- Financial Bid - rates of AMC and spare parts items of CCTV, Fire Alarm and Security Alarm systems and Fire Extinguishers and a full setoff new installation.

Note: The tender documents should be submitted duly signed and stamped at each page by authorized signatory. FAX/Telegram/Telex/email or any form of electronic communication will not be acceptable.

Late Bids: -*Any bid received after the deadline as prescribed by the Bank will be rejected and/or returned unopened to the Bidder, if bidder desire so.*

C. GENERAL CRITERIA, TERMS & CONDITIONS - Empanelment

- a. Empanelment shall be done for two type Security Vendors dealing with (1) **CCTV & Alarm System**, (2) **Fire Extinguishers**. Empanelment will be Category of **Class A i.e. upto 10.00 Lakhs** values for CCTV, Burglar/Fire Alarm System and **Class B i.e. upto 5.00 Lakhs** for Fire Extinguishers.
- b. The Vendors/Firms/Suppliers should have sales turnover of 40 Lakhs or above for CCTV & Burglar/ Fire alarm System and 20 lakhs for Fire Fighting Equipments average in the last 3 years (copy of duly audited Balance sheet to be attached for last three years).

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- c. The firm should have satisfactorily completed works, as stated below during the last 3 years prior to 31.12.2024.
- **FOR CCTV/ALARM SYSTEM:**
 - i) Three similar works each costing not less than 4 Lakhs
OR
 - ii) Two similar works costing not less than 5 Lakhs
OR
 - iii) One similar works costing not less than 8 Lakhs
 - **FOR FIRE EXTINGUISHER:**
 - i) Three similar works each costing not less than 2 Lakhs
OR
 - ii) Two similar works costing not less than 2.5 Lakhs
OR
 - iii) One similar works costing not less than 4 Lakhs

Similar work shall mean Supply, Installation, Testing, Commissioning and Maintenance of Standalone Digital Video Recorder (SDVR) or NVR based Closed Circuit Television Systems (CCTV) and Fire and Security Alarm System for empanelment of Vendors for **(1) CCTV & Alarm System** and supply installation and refilling of Fire Extinguishers for any reputed organization for empanelment of Vendors for **(2) Fire Extinguishers**.

- d. Vendor has to submit a Bank Solvency Certificate of minimum Rs. 50 Lakhs for CCTV/ALARM SYSTEM and Rs. 20 Lakhs for Fire Extinguishers to establish the financial soundness of the Company. (The Solvency Certificate not older than six months shall be issued by any scheduled or commercial Bank, addressing to “The AGM, Canara Bank P&E Section Circle Office Kolkata” and clearly specifying the RFP Number in the Subject Line or Matter). Solvency Certificate if not submitted as specified here like RFP number would be considered as non-responsive, incomplete and shall be out rightly rejected.
- e. The Vendors/Firms/Suppliers should have earned profit consecutively during the last three years (copy of duly audited Balance sheet to be attached for last three years).
- f. Firms should be registered companies/their authorized dealers/authorized suppliers reputed in the concerned field with not less than five years dealing in the products offered. (Attested copies or original Work orders will be accepted as proof and attested copies of certificate of corporation to be submitted)
- g. Product quality and Robustness:- All Products for which BIS standards exist should Conform to those standards.

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- h. After sales service network within “Kolkata Circle office jurisdiction”. The Firm should have at least one of its own office and service centre functioning in Kolkata. (Firms should submit attested copies of original rent receipt or any proof to prove that it has own office and service centre functioning in Kolkata to apply).
- i. The Vendors/Firms/Suppliers should have an office/service center in Kolkata: the Vendors/Firms/Suppliers are interested to apply with sufficient network to support for attending any request for rectification in a short span of time. The firm should have sufficient network of service Engineers in the Kolkata state under the jurisdiction of Kolkata Circle Office.
- j. The Vendors/Firms/Suppliers applying for CCTV/ Alarm Systems should have installed/ looking after the Annual Maintenance for CCTV/Fire Alarm/BAS Systems of at least one Public Sector Banks/ Public Sector Undertakings (other than Canara Bank) (Vendor should provide reference site details in the specified annexure and they will qualify only, if the Bank get positive feedback from the quoted references.)
- k. The Vendors/Firms/Suppliers with Test report by the Circle Electronic Test Development centers or BIS certification is must. (Attested copies or original Proof, if any has to be submitted).
- l. After the demonstration, if the Bank requests to provide another demo in another/same premises to ensure the quality of the product, the vendor should provide it without any additional charges. **Demonstration shall be part of technical evaluation.**
- m. Firms should have Income Tax PAN, GSTN and the latest Clearance Certificate. (Attested copies of PAN card and latest Income tax return to be submitted)
- n. Firms should have Registration at local office in Kolkata state under Shops & Establishments Act. (Attested copy of certificate to be submitted)
- o. Firms should have one office with telephone and Email facility and office should be manned during the office hours. Email will be considered as valid means to report compliant and vendor is bound to attend the complaint within 48 hrs latest.
- p. Firms shall not be owned or controlled by any director or officer/employee of the Bank or their relatives having the same meaning as assigned under Section 6 of the Companies Act 1956. (A certificate denying the ownership of Agency/Firm/Manufacturer/ Dealer by any director or officer/ employee of the Bank or their relatives having the same meaning as assigned under Section 6 of the Companies Act 1956 issued by the CEO or Director of the Firm to be submitted along with the Tender).
- q. Firms should submit an undertaking (on their letter head) that they have not been “Black Listed” by any of the Govt. Authority or PSUs/PSBs duly signed by authorized signatory with company seal.

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- r. Firms should have registration number for payment of GST (Attested copy of proof to be submitted with company seal)
- s. Tenders which are not in sealed covers will not be accepted.



D. GENERAL TERMS & CONDITIONS - Empanelment

- a) The date of award of AMC shall be for duration of 01 years from the award of AMC, renewable subject to the performance. The period of one year would be divided into four quarters and security system is to be checked thoroughly each quarter to ensure its fitness at buildings / properties.
- b) In case of new installation, Bank shall right to entrust empanelled vendor as per requirements with approved rates.
- c) The gap between each AMC visit should be not less than 60 days.
- d) No separate labour charges/ service charges shall be admissible for troubleshooting / defect rectification.
- e) Break down calls are to be attended immediately within 24 hours at free of cost.
- f) Proper Identity cards (with photograph) are to be issued to the service technician/ engineers to have access to the location / sites and the said personnel should report to the concerned Security Officer / bank official while attending to the repair or service.
- g) No payment of any nature is to be obtained from the staff at the location. Payment of AMC shall be done from controlling office on production of service reports& invoice only.
- h) All the Branches are to be covered under AMC and are to be visited quarterly. Bills will be cleared only when the complete list of Branches allocated to the vendor is submitted duly signed/ endorsed by the Branch along with the copy of service report.
- i) All new units and parts replaced should carry a warranty of one year during which no service maintenance charges should be collected. After rectification of the system it should carry a warranty of 12 months during which no service/ maintenance charges should be collected.
- j) During the visit the staffs are to be briefed/ demonstrated the usages of the system.
- k) A spare component is to be provided for the period during which the defective component is taken out or in case the repair of the main unit takes a longer time to be completed.
- l) Any abnormally low rates quoted with regard to the prevailing market rates may entail disqualification from participating in the tender process and may be summarily rejected by the bank.**
- m) All the old items/replaced spares/ parts, etc are to be taken back by the vender under the Buy Back clause and a marginal value of the same will be paid to the Bank by the vendor.**

- n) The bank reserve the right to terminate the service contract with one month notice without assigning any reason whatsoever
- o) In case of vendor take the Defective system for repair, vendor need to place other system and make it serviceable without any cost during the period of AMC.
- p) Satisfactory report of vendor from other department should not be less than satisfactory.

PROCEDURE FOR AWARD OF AMC:



- q) The Tender would be a Two Bid tender system comprising of Technical and Financial bid. The vendor would be shortlisted based on the technical evaluation done as per the eligibility criteria given above. Suitable marks would be awarded to shortlisted vendors against each criteria and a sum total of the marks would be taken to form a merit list for finalizing the empanelment and awarding AMC contract as per **Technical Bid rating chart** as shown below. The bidders who score **minimum 60** shall be considered for further empanelment. The Financial bid would be opened only for the vendor finalized by the technical evaluation committee.
- r) The appropriate L1 (lowest among all quoted rates) rate for AMC and each spare / accessory and full system for new installation, viz. CCTV / Fire Alarm System / Fire Extinguisher shall be initially fixed as the benchmark / standard for the rate of the particular spare / accessory/set that shall be eventually followed by the bank.
- s) The L1, L2, L3,L4,L5,L6 and L7 vendors in respect of their offered AMC rates (for each Security / Fire Safety equipment) and accordingly technical marks and financial marks in ratio of 60:40 shall then be asked for their willingness to render AMC services equipment-wise at the corresponding standardized rate of that equipment.
- t) The number of vendors between L1, L2, L3, L4, L5, L6 and L7 agreeable to the rate list of equipment would then be awarded AMC for the locations on a proportionate basis. Bank shall right to split the work as per Bank's requirement.
- u) If the vendor do not qualify in technical, than the allocation of RO will be among the rest qualified vendor only.
- v) If vendor unable to attend the branch or complain received against vendor than bank has right to change the vendor from that RO and give the work to another vendor without any prior notice.

TECHNICAL BID RATING CHART

As per process of empanelment deals with the submission of documents and fulfilling the required eligibilities criterion; the list of empanelled vendors will be made on a score of

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maximum point in 9 different parameters. The applicant, who scores minimum **70 points out of 100**, will be considered successful, as per following evaluation /scoring system.

Scoring Criterion with score points:

Sl. No	Parameter		Maximum Marks
1	Age of the firm	More than 10 Years	10
		10 years- 5 years	8
		Less than 5 years	6
2	Turnover of the Company	100% of required criterion	10
		80% of required criterion	8
		60% of required criterion	6
		Less than 60% of required criterion	3
3	Compliance to registered Authorities	All the required licenses available and return filled	10
		If few returns are not filed	Proportionally reduce marks
4	Number of Employee	Adequate as per required eligibilities (100%)	10
		If permanent employees are less	Proportionally reduce marks
5	Works Completed	All completed as per eligibility	10
		If works are in progress as per eligibility	Proportionally reduce marks
6	Expertise in field /Demonstration	Experience staff and service as per the eligibility i.e. 3 years. Satisfactory demonstration of CCTV/ALARM system.	10
		If any deficiency	Proportionally reduce marks
7	Customer feedback	Best customer feedback as per eligibility	10
		If feedback is lacking	Proportionally reduce marks
8	Documents submitted	100% authentic and certified documents	10
		If documents are less	Proportionally reduce marks

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9	Empanelment status with us or others.	Valid empanelment in Canara Bank or other PSB with good track record	10
		Valid empanelment in Govt./Other PSU with good track record	6
		Valid empanelment in private	3
Total			100

In case where quantifiable information is NOT available /provided, for calculation of points, following proportionate scale will be used and accordingly the points will be awarded:

Excellent/Best -> Very Good -> Good -> Satisfactory -Average-> Bad/Worst
(Highest Point) (Lowest Point)

The scores will be awarded on the basis of information provided, inquiries made over phone/email or similar means feedback received from other counterparts. This score may also be used for distribution of work in case of multiple firms are eligible by fulfilling criterion.



E. VALIDITY PERIOD

- a. The empanelled Vendors/Firms/Suppliers will remain in the empanelled list of the Bank for Kolkata Circle for three years from the date of empanelment or till the completion of next empanelment period at the Bank's own discretion (whichever is earlier). Empanelment of the Vendors/Firms/Suppliers will be reviewed after 1 year subject to service & performance standards and may be extended if required.
- b. The Annual rate contract will be valid for (01) one year and will be reviewed subject to service & performance standards.
- c. Empanelment will be valid only, if all eligibility criteria mentioned in the advertisement are fulfilled during the entire empanelment period.
- d. **If the service provided by vendor is found to be unsatisfactory or if at any point of time during the empanelment it is found that the information provided by vendor is false or if vendor do not participate in any subsequent RFP or tendering process three times consecutively, the Bank reserves the right to remove the vendor from the empanelment list without giving any notice. Bank's decision in this regard will be final.**

Bank reserves the right to reject an offer under any of the following circumstances:

1. Bid security (EMD) is not submitted.
2. Incomplete Offer and/or all documents not attached.
3. Offer is not in conformity with the terms and conditions stipulated in this document. Specifications stipulated in RFP are not met with. However, deviations resulting in higher / superior configuration will be accepted.
4. If Technical Offer contain any price information.
5. Commercial Offer format differs from actual Commercial Offer format.
6. Or violates any terms and conditions in the RFP document.
7. Or If found that the information provided in the offer is false.

TENDER - OFFER

I/We have read and examined the Notice Inviting Tender. Schedules, Specifications Applicable, Drawings and Designs, General Rules and Instructions, General Conditions of

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Contract, Special conditions, Schedule (Bill) of quantities in Price Bid, and all other documents referred to in the conditions of contract and all other contents in the tender document for the work.

I/We hereby tender for the execution of the work specified for the Employer within the time specified at the rates specified in the attached Price Bid viz., schedule of quantities and in accordance in all respects with the specifications, designs drawings and instructions in writing referred to in the General Rules and Instructions, General Conditions of Contract and in all respects in accordance with, such conditions so far as applicable.

I/We agree to keep the tender open for 90 (ninety days) days from the due date of submission thereof and not to make any modifications in its terms and conditions. A sum of _____ is hereby forwarded as earnest money in form of Demand Draft of (Name of the issuing Schedule Bank) bearing no and date

In the event of my / our failure to commence the work on the specified date after award I/We agree that the Bank shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely otherwise the said earnest money shall be retained by it towards security deposit to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to therein.

I/We agree that should I/We fail to deposit the full amount of initial security deposit and/or to sign the agreement as specified in the above memorandum/ tender , an amount equal to the amount of the earnest money mentioned in the form of invitation of tender shall be absolutely forfeited to the Employer and the same may at the option of the Employer be recovered without prejudice to any other right or remedy available in law, out of the deposit in so far as the same may extend in terms of the said bond and in the event of deficiency out of any other money due to me/us under this contract or otherwise.

I/We hereby declare that I/We treat the tender documents, drawings and other records connected with the work as secret/confidential documents and shall not communicate information/derived there from to any persons other than a person to whom I/We am /are authorised to communicate the same or use the information in any manner prejudiced to the safety of the State / the Employer.

I/We fully understand that you are not bound to accept the lowest bid or any tender you may receive. Shri. _____, Partner / Proprietor / Authorised representative of the Company, is the person authorised to negotiate commercial, technical terms & conditions & sign on behalf of the firm any Agreement, Bills & receipts for this work.

I/We agree that until a formal agreement on stamp paper is prepared and signed, this tender with your written acceptance thereof shall constitute a binding contract between us.

Dated theday of 2024

Signature of Contractor/vendor

Witness,

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Name & address: Full Postal Address including Pin Code NO. & Telephone NO.

- 1).
- 2).



APPLICATION FORMAT

APPLIED FOR EMPANELMENT OF: CCTV/ALARM SYSTEM, FIRE EXTINGUISHERS

CATEGORY (type of work) :

1. Name of the Applicant :
Address :

Communication Details : (*) Mandatory fields
Telephone **Office (*)** :
: :
: :
Mobile (*) :
Fax :
E-Mail (*) :

2. a) Status of the Firm (Whether company/
Partnership / proprietary) :

b) Name of the Proprietor/ Partners/ Directors
(With professional qualifications, if any)

- I)
- II)

c) Year of establishment :

3. Whether registered with Registrar of
Companies/ firm. If so, No. & Date :

4. Registration with Tax Authorities :

a) Income-tax No. PAN/GIR NO;
(Furnish copies of Income-tax returns)

b) GST No. :

5. a> Names of the Bankers with address:

I)

II)

b> Enclose solvency certificate from the bankers:

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6. Turnover of the Company/firm (Please attach copy of audited balance sheet and profit and loss account for last three years).

	Year	Turnover
1		
2		
3		

7. Empanelment with Government / Public Sector / Banks / MNC's

NAME OF THE ORGANISATION	NATURE OF WORKS	VALUE OF WORKS	DATE OF EMPANELMENT

8. What are your fields of activities? Mention the fields on preference Basis

- 1)
2)

9. Details of the works executed during the last 3 years (please mention only such works which qualifies for eligibility criteria)

Sl. No.	Name of Work	Work executed for (name of the organization with address, concerned office and telephone number)	Nature of work (in brief)	Location of the work	Actual Value of the works	Stipulated time for completion	Actual time for completion	If work left incomplete or terminated (furnish reasons)

Note: Copies of satisfactory completion certificate obtained from the client shall be enclosed.

10. Details of present works under execution (enclose copies of work orders issued by clients)

11. Key personnel permanently employed in your organization:

Sl No.	Name	Qualifications	Experience	Particulars of work done	Employed in your firm since	Any other

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12. Furnish the names of three responsible clients/ persons to whom the major works carried out by the applicant with address and telephone number who will be in a position to certify about the quality as well as past performance of your organization.

NAME OF THE OFFICIAL	ORGANISATION & ADDRESS	CONTACT NUMBERS

13. Furnish the details of litigation/ Arbitration cases resulting from the contracts executed in the last seven years or currently under execution in the following format.

YEAR	Award for or Against Applicant	Name of clients, cause of litigation and matter of dispute	Disputed Amount	Actual Awarded Amount

DECLARATION

1. All the information furnished by me / us here above is correct to the best of my knowledge and belief.
2. I / we have no objection if enquiries are made about the work listed by me / us in the accompanying sheets / annexure.
3. I / We agree that the decision of CANARA BANK in selection of vendors will be final and binding to me / us.
4. I / We have read the instructions appended to the proforma and I / we understand that if any false information is detected at a later date the empanelment shall be cancelled at the discretion of the bank.

Place :
Date :

SIGNATURE OF CONTRACTOR
NAME & DESIGNATION
SEAL OF ORGANISATION

Seal of the Company & Date

Signature of Authorized Signatory



CHECK LIST OF DOCUMENTS TO BE SUBMITTED

Sl. No	Particulars	Compliance	
		Yes	No
1.	Certificate of Registration of Company / Partnership Deed etc		
2.	Incorporation Certificate		
3.	MSE / NSI / KIV certificates and documents		
4.	Earnest Money Deposit :a DD / Pay Order		
5.	Cost of Tender document / Tender fee:		
6.	Shop & Establishment Certificate of Local Office (Kolkata/Kolkata)		
7.	Certificate of Registration with Income Tax Authorities		
8.	Certificate of Registration with EPF		
9.	Certificate of Registration with ESIC		
10.	Certificate of Registration with GST		
11.	Audited Balance sheet & P&L statement for last three years		
12.	Copies of Turnover Certificate Tax returns and assessment orders for Last Three years		
13.	Registration Certificate as per Company's Act		
14.	Certificate from ESI corporation regarding Registration under Shops & Establishment Act		
15.	Detail list of Branch Office, Head Office: on Pan India with Contact Numbers (Landline & Mobile) and email id.		
16.	Latest Certificate from EPF Organization under EPF & Misc. Provision Act-1952 (EPF Register of employees of last 12 months)		
17.	Copies of Balance Sheet (Audited) for last three financial years		
18.	Copies of PAN, ESI, EPF, GST registration number etc.		
19.	Signed copy of all the Tender documents		

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TECHNICAL SPECIFICATIONS

A. CCTV SYSTEM-RECOMMENDED

WARRANTY ON ALL PRODUCTS IS 2 YEARS (EXCEPT CABLES AND BATTERIES) INCLUDING 08 QUARTERLY MANDATORY SERVICE VISITS

S No	ITEM	MINIMUM DESIRED SPECIFICATIONS FOR SUPPLY AND INSTALLATION	BRANDS & MODELS (WITH WARRANTY 2 YEARS)
1.	NETWORK VIDEO RECORDER - 4 CHANNEL WITH 01 SATA HDD PORT AND ONBOARD POE	4 CHANNEL, COMPACT 1U, NVR, UL/ EN / EU/ CE CERTIFIED. H.265+/H.264 CODEC DECODING, MAX 80MBPS INCOMING BANDWIDTH, UP TO 6MP RESOLUTION PREVIEW &PLAYBACK, HDMI/VGA SIMULTANEOUS VIDEO OUTPUT, SUPPORT TCP/IP UPNP, ONVIF COMPATIBLE, 1 SATA III PORT, UP TO 6TB CAPACITY FOR EACH HDD AND FREE PROGRAMMING SOFTWARE	DAHUA DH-NVR4204-P-4KS2 / HIKVISION DS-7604NI-Q1/4P or ANY OTHER APPROVED BRAND PRIOR BY BANK.
2.	NETWORK VIDEO RECORDER - 8 CHANNEL WITH 02 SATA HDD PORTS	8 CHANNEL, 1 U, UL/ EN / EU/ CE CERTIFIED. H.265+, H.265, SMART H.264+ CODEC DECODING, MAX 320 MBPS INCOMING BANDWIDTH, UP TO 8 MP RESOLUTION PREVIEW & PLAYBACK, HDMI/VGA SIMULTANEOUS VIDEO OUTPUT , SUPPORT TCP/IP, UPNP, ONVIF COMPATIBLE, 2 SATA III PORTS, UP TO 6TB CAPACITY FOR EACH HDD,INTERFACE 1 RJ-45 Port (10/100/1000Mbps)	DAHUA DH-NVR5208-4KS2/ HIKVISION DS-7608NI-Q2 or ANY OTHER APPROVED BRAND PRIOR BY BANK.

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S No	ITEM	MINIMUM DESIRED SPECIFICATIONS FOR SUPPLY AND INSTALLATION	BRANDS & MODELS (WITH WARRANTY 2 YEARS)
3.	NETWORK VIDEO RECORDER - 16 CHANNEL WITH 04 SATA HDD PORT	16 CHANNEL 1.5 U, NVR, UL/ EN / EU/ CE CERTIFIED. H.265+, H.265, SMART H.264+ CODEC DECODING, MAX 320 MBPS INCOMING BANDWIDTH, UP TO 8 MP RESOLUTION PREVIEW & PLAYBACK, HDMI/VGA SIMULTANEOUS VIDEO OUTPUT , SUPPORT TCP/IP, UPNP, ONVIF COMPATIBLE, 4 SATA III PORTS, UP TO 6TB CAPACITY FOR EACH HDD, INTERFACE 1 RJ-45 Port (10/100/1000Mbps)	DAHUA DH-NVR5416-4KS2 /HIKVISION DS-7716NI-Q4 or ANY OTHER APPROVED BRAND PRIOR BY BANK.
4.	NETWORK VIDEO RECORDER - 32 CHANNEL 04 SATA HDD PORT	32 CHANNEL 1.5 U 16 POE, NVR, UL/ EN / EU/ CE CERTIFIED. H.265+, H.265, SMART H.264+ CODEC DECODING, MAX 320MBPS INCOMING BANDWIDTH, UP TO 8MP RESOLUTION PREVIEW&PLAYBACK, HDMI/VGA SIMULTANEOUS VIDEO OUTPUT, SUPPORT TCP/IP, UPNP, ONVIF COMPATIBLE, 4 SATA III PORTS, UP TO 8TB CAPACITY FOR EACH HDD, INTERFACE 1 RJ-45 PORT (10/100/1000MBPS)	DAHUA DH-NVR5432-4KS2/ HIKVISION DS-7732NI-Q4 or ANY OTHER APPROVED BRAND PRIOR BY BANK.
5.	10 TB SURVEILLANCE HARD DISC	UL,WD- AVGP SERIES/ SEAGATE	SEAGATE SEAHAWK ST10000VX0004/ WD PURPLE WD101PURZ
6.	8 TB SURVEILLANCE HARD DISC	UL,WD- AVGP SERIES/ SEAGATE	SEAGATE SEAHAWK ST8000VX0022/ WD PURPLE WD82PURZ
7.	6 TB SURVEILLANCE HARD DISC	UL,WD- AVGP SERIES/ SEAGATE	SEAGATE SEAHAWK ST6000VX0023/ WD PURPLE WD60PURZ
8.	4 TB SURVEILLANCE HARD DISC	UL,WD- AVGP SERIES/ SEAGATE	SEAGATE SEAHAWK ST4000VX007/WD PURPLE WD40PURZ
9.	2 TB SURVEILLANCE HARD DISC	UL,WD- AVGP SERIES/ SEAGATE	SEAGATE SEAHAWK ST2000VX008/ WD PURPLE WD20PURZ

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S No	ITEM	MINIMUM DESIRED SPECIFICATIONS FOR SUPPLY AND INSTALLATION	BRANDS & MODELS (WITH WARRANTY 2 YEARS)
10.	2 MP FIXED DOME IP IR CAMERA (UL/ EN/EU/CE CERTIFIED)	2MP IP NETWORK IR CAMERA , H.265+ & H.265, H.264&MJPEG DUAL-STREAM ENCODING & DWDR,1/2.7" 2MP PROGRESSIVE CMOS, H.265+ & H.265 DUAL - STREAM ENCODING,25/30FPS@1080P(1920×1080) DWDR, DAY/NIGHT(ICR), 3DNR, AWB, AGC, BLC , MULTIPLE NETWORK MONITORING: WEB VIEWER.2.8 MM FIXED LENS (3.6MM OPTIONAL), MAX IR LEDS LENGTH 30M, IP67, POE.	DAHUA DH-IPC-HDW12B0SP/ HIKVISION DS-2CD1323G0E-I
11.	2 MP BULLET IP IR CAMERA (UL/ EN/EU/CE CERTIFIED)	2MP IP NETWORK IR CAMERA H.265+ & H.265, H.264&MJPEG DUAL-STREAM ENCODING & DWDR, 1/2.7" 2MP PROGRESSIVE CMOS, H.265+ & H.265 DUAL - STREAM ENCODING, 25/30FPS@1080P(1920×1080) DWDR, DAY/NIGHT(ICR), 3DNR, AWB, AGC, BLC ,MULTIPLE NETWORK MONITORING: WEB VIEWER.2.8 MM FIXES LENCE (3.6MM OPTIONAL), MAX IR LEDS LENGTH 30M, IP67, POE.	DAHUS DH-IPC-HFW12B0SP/HIKVISION DS- 2CD1023G0E-I
12.	2 MP PINHOLE IP IR CAMERA (UL/ EN/EU/CE CERTIFIED)	2MP IP NETWORK IR CAMERA H.265,H.264&MJPEG TRIPLE-STREAM ENCODING & WDR,1/2.7" 2MP PROGRESSIVE CMOS, 25/30FPS@1080P(1920×1080) DWDR, 3DNR, AWB, AGC, BLC ,MULTIPLE NETWORK MONITORING: WEB VIEWER.2.8 MM PINHOLE LENSE	DAHUA - IPC-HUM4231/ HIKVISION DS-2CD2D21G0-D/NF
13.	1.3 MP IP IR WIFI HD CUBE CAMERA	1.3MP IP IR CUBE CAMERA WIFI-10 MTR, DWDR, H.264 & MJPEG, MICRO SD CARD SLOT,BUILT- IN MIC & SPEAKER, MOBILE SOFTWARE: iCMOB,gCMOB,WCMOB	DAHUA - IPC-K15S/ HIKVISION DS-2CD242PF-W

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S No	ITEM	MINIMUM DESIRED SPECIFICATIONS FOR SUPPLY AND INSTALLATION	BRANDS & MODELS (WITH WARRANTY 2 YEARS)
14.	ROUTER FOR CUBE CAMERA WITH MICRO SIM CARD SLOT	3G/4G ROUTERS, NETWORK TYPE 4G: FDD- LTE 3G: DC-HSPA+/HSPA+/HSPA/UMTS B1/B8 (2100/900 MHZ), INTERFACE 3 10/100MBPS LAN PORTS, 1 10/100MBPS LAN/WAN PORT, 1 MICRO SIM CARD SLOT, WIRELESS STANDARDS IEEE 802.11AC/N/A 5GHZ, IEEE 802.11B/G/N 2.4GHZ, FREQUENCY 2.4GHZ AND 5GHZ	ARCHER MR200
15.	3 MP FISHEYE CAMERA , 3 MP WITH MCRO SD CARD	3MP IP NETWORK IR CAMERA H.265+ & H.265, H.264&MJPEG TRIPLE-STREAM ENCODING & DWDR, 1/2.7" 3MP PROGRESSIVE CMOS, 25/30 FPS@1080P(1920×1080) WDR, 3DNR, AWB, AGC, BLC ,MULTIPLE NETWORK MONITORING: WEB VIEWER.1.4 MM FIXES LENSE, BUILT-IN MIC, • MICRO SD MEMORY, IP67, POE.	DAHUA 5 MP WITH MICRO SD MEMORY CARD DAHUA DH- IPC-EB5531/ HIKVISION 3 MP-DS-2CD2935FWD-I(S)/DAHUA 5MP-DS-2CD2955FWD-I
16.	NETWORK ATTACHED STORAGE(NAS)- 1 BAY	NAS WITH 1 BAY, WITH 01 ESATA (IF AVAILABLE) PORT, MIN 01 ETHERNET PORT, 02 USB(3.0) PORTS. Max Cap: 6TB (1x 6TB HDD) (Capacity may vary by RAID types), WITH PROVISION TO CONNECT MIN 4 IP CAMERAS BRANDS: SYNOLOGY/NETGEAR/EQUIVALENT	SYNOLOGY DS119J/ NETGEAR RN212
17.	NETWORK ATTACHED STORAGE(NAS)- 2 BAY	NAS WITH 2 BAY, WITH MIN 02 ETHERNET PORT, 02 USB(3.0) PORT RAID 0, 1 AND JBOD SUPPORTED, MAX CAPACITY - 12 TB (CAPACITY MAY VARY BY RAID TYPES). WITH PROVISION TO CONNECT MIN 4 IP CAMERAS. BRANDS: SYNOLOGY/NETGEAR/EQUIVALENT	SYNOLOGY DS218J/ NETGEAR RN 214

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S No	ITEM	MINIMUM DESIRED SPECIFICATIONS FOR SUPPLY AND INSTALLATION	BRANDS & MODELS (WITH WARRANTY 2 YEARS)
18.	4 PORT POE NETWORK SWITCH	LAYER TWO COMMERCIAL SWITCH· SUPPORTS POE POWER MANAGEMENT· SUPPORTS WALL-MOUNT INSTALLATION· SUPPORTS ANTI-THEFT LOCK HOLE· MAC AUTO LEARNING AND AGING, MAC ADDRESS CAPACITY IS 1K· SUPPORTS IEEE802.3, IEEE802.3U AND IEEE802.3X STANDARDS· RJ45 PORT SUPPORTS 10/100MBPS SELF-ADAPTATION· SUPPORTS 250 METERS LONG DISTANCE POE TRANSMISSION· CONFORMS TO IEEE802.3AF AND IEEE802.3AT POWER SUPPLY STANDARD. PORT 1 SUPPORTS HI- POE 60W POWER SUPPLY	DAHUA DH-PFS3005-4ET-36/ HIKVISION DS-3E0105P-E
19.	8 PORT POE NETWORK SWITCH TO BE INSTALLED WITH 8 CHL NVR	ETHERNET PORT1*10/100 BASE-T8*10/100 BASE-T (POE POWER SUPPLY), POE POWER CONSUMPTIONPORT1≤60W, PORT2-8≤30W, TOTAL≤96W, LAYER TWO COMMERCIAL SWITCH· SUPPORTS IEEE802.3, IEEE802.3U AND IEEE802.3X STANDARDS· MAC AUTO LEARNING, AGING, MAC ADDRESS CAPACITY IS 2K· SUPPORTS MDI/MDIX SELF-ADAPTATION· SUPPORT POE, POE+, HI-POE· ADOPTS METAL ENCLOSURE	DAHUA DH-PFS3009-8ET-65/DS-3E0109P-E or ANY OTHER APPROVED BRAND PRIOR BY BANK.
20.	16 PORT POE NETWORK SWITCH WITH 16/32 CHL NVR	16*10/100MBPS PORTS, 1*GIGABIT COMBO PORT, SUPPORT PORT AUTO FLIPPING (AUTO MDI / MDIX)· PORT 1- 2 SUPPORT THE MAXIMUM POWER OF 60W, POE OUTPUT TOTAL POWER UP TO 135W· COMPLIANT IEEE 802.3, IEEE 802.3U, IEEE802.3AB, IEEE802.3X STANDARDS· SUPPORTS IEEE802.3AF, IEEE802.3AT, HI- POE STANDARDS· SUPPORTS NORMAL WORKING MODE, PORT ISOLATION (VLAN) MODE, MONITORING MODE, NETWORK EXTEND MODE. · SUPPORTS STORE-AND- FORWARD· SUPPORTS IEEE802.3X FLOW CONTROL FOR FULL-DUPLEX MODE AND BACKPRESSURE FOR HALF-DUPLEX MODE· 4K ENTRY MAC ADDRESS TABLE WITH AUTO-LEARNING AND AUTO-AGING· LED INDICATORS FOR MONITORING POWER, LINK AND ACTIVITY	DH-PFS3117-16ET-135/DS-3E0318P-E or ANY OTHER APPROVED BRAND PRIOR BY BANK.

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S No	ITEM	MINIMUM DESIRED SPECIFICATIONS FOR SUPPLY AND INSTALLATION	BRANDS & MODELS (WITH WARRANTY 2 YEARS)
21.	24 PORT POE NETWORK SWITCH WITH 32 CHL NVR	ETHERNET PORTSTWO (2) 1000 BASE-X PORTS (COMBO PORTS)TWO (2) 10/100/1000 BASE-T PORTS 24 10/100 BASE-T PORTS (POE POWER SUPPLY, POE FEATURES• HI-POE: PORTS 1 AND 2CONSUMPTION: UP TO 60 W PER PORT• IEEE802.3AF, IEEE802.3AT: PORTS 3 TO 24CONSUMPTION: UP TO 30 W PER PORT• ENHANCED POE (EPOE): PORTS 1 TO 8• TOTAL POE BUDGET: ≤ 360 W,LAYER 2 MANAGED NETWORK EPOE SWITCH •SUPPORTS LONG DISTANCE EPOE TRANSMISSION, UP TO 800 M (2524 FT) •SUPPORTS IEEE, E100, AND E10 TRANSMISSION MODES (PORTS 1 TO 8)•SUPPORTS TWISTED-PAIR AND COAXIAL CABLE TRANSMISSION (PORTS 1 TO 8)•SUPPORTS POE MANAGEMENT, GREEN POE, AND LEGACY SUPPORT	DAHUA DH-LR2226-24ET-360/ HIKVISION DS- 3E0326P-EM or ANY OTHER APPROVED BRAND PRIOR BY BANK.
22.	MONITOR- LED 18.5"	18.5" SURVEILLANCE GRADE MONITOR WITH HDMI & VGA INPUT	LG- LG 19M38HB , HIKVISION -DS-D5019QE-B, SAMSUNG - S19F350HNW
23.	CAT 6 CABLE	CAT 6, CORE DIAMETER 0.585MM, 305M CCA, TRANSMISSION DISTANCE UPTO 85M, PER METRE	DLINK / DIGISOL/DIGILINK/ HIKVISION,POLYCAB

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S No	ITEM	MINIMUM DESIRED SPECIFICATIONS FOR SUPPLY AND INSTALLATION	BRANDS & MODELS (WITH WARRANTY 2 YEARS)
24.	ARMOURED CAT 6 CABLE	ARMOURED CAT 6, CORE DIAMETER 0.585MM, 305M CCA, TRANSMISSION DISTANCE UPTO 85M), PER METRE	POLYCAB /LEGRAND
25.	RACK 4 U WITH LOCK AND FAN , FOR 4 & 8 CHANNEL NVR	FRONT DOOR WITH TOUGHENED GLASS QUALITY, ADJUSTABLE MOUNTING RAILS - FRONT AND BACK, 1 FAN MOUNTING PROVISION, TOP AND BOTTOM CABLE ENTRY PROVIDES, OPTIMAL FLEXIBILITY FOR CABLE MANAGEMENT, EASY WALL MOUNT PROVISION, EASY INSTALLATION - STANDING/WALL MOUNTING OPTION, FRAME STRUCTURE WITH MAX LOADING CAPACITY UP TO 60 KG	BESTNET, DATA RACK, VALRACK, ZENFLEX,IBALL
26.	RACK 6 U WITH LOCK AND FAN, FOR 16 & 32 CHANNEL NVR	FRONT DOOR WITH TOUGHENED GLASS QUALITY, ADJUSTABLE MOUNTING RAILS - FRONT AND BACK, 1 FAN MOUNTING PROVISION, TOP AND BOTTOM CABLE ENTRY PROVIDES, OPTIMAL FLEXIBILITY FOR CABLE MANAGEMENT, EASY WALL MOUNT PROVISION, EASY INSTALLATION - STANDING/WALL MOUNTING OPTION, FRAME STRUCTURE WITH MAX LOADING CAPACITY UP TO 60 KG	BESTNET, DATA RACK, VALRACK, ZENFLEX, IBALL
27.	OFFSITE ATM CCTV DVR WITH BUILT-IN 7 INCH SCREEN	EL/UN CERTIFIED .TRIBRID: SUPPORT HDCVI/ANALOG/IP VIDEO INPUT, HIGH PROFILE H.264 DUAL-STREAM VIDEO COMPRESSION, HDMI/VGA/TV SIMULTANEOUS VIDEO OUTPUT, ONVIF VERSION 2.3 CONFORMANCE, SUPPORT 2SATA HDDS UP TO 20TB, MULTIPLE NETWORK MONITORING: WEB VIEWER, CMS(DSS/SMART PSS)&SMART PHONE(DMSS), BUILT-IN 7 INCH SCREEN	DH-HCVR-0404AS-VD/ EQUIVALENT

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S No	ITEM	MINIMUM DESIRED SPECIFICATIONS FOR SUPPLY AND INSTALLATION	BRANDS & MODELS (WITH WARRANTY 2 YEARS)
28.	HD DVR/XVR(PENT A BRID) -4 CHANNEL WITH 01 SATA HDD PORT, ONVIF	4 CHANNEL, HD DVR/ XVR,UL/ EN / EU/ CE CERTIFIED, SUPPORTING PENTA BRID CAMERA TECHNOLOGIES(CVBS/HDTVI/ HDCVI/IP/ANALOG), WITH 01 SATA HDD SUPPORT, ONVIF.	DAHUA - DH-XVR5104HS-S2/ HIKVISION DS-7104HQHI-K1 or ANY OTHER APPROVED BRAND PRIOR BY BANK.
29.	HD DVR/XVR(PENT A BRID) -08 CHANNEL WITH 02 SATA HDD PORTS, ONVIF	08 CHANNEL, HD DVR/ XVR, UL/ EN / EU/ CE CERTIFIED, SUPPORTING PENTA BRID CAMERA TECHNOLOGIES(CVBS/HDTVI/ HDCVI/IP/ANALOG), WITH 02 SATA HDD SUPPORT, ONVIF.	DAHUA - DH-XVR5208AN-S2/ HIKVISION DS-7208HQHI-K2 or ANY OTHER APPROVED BRAND PRIOR BY BANK.
30.	HD DVR/XVR(PENT A BRID) -16 CHANNEL WITH 02 SATA HDD PORTS, ONVIF	16 CHANNEL, HD DVR/XVR, UL/ EN / EU/ CE CERTIFIED, SUPPORTING PENTA BRID CAMERA TECHNOLOGIES(CVBS/HDTVI/ HDCVI/IP/ANALOG), WITH 02 SATA HDD SUPPORT, ONVIF.	DAHUA - DH-XVR5216AN-S2/ HIKVISION DS-7216HQHI-K2 or ANY OTHER APPROVED BRAND PRIOR BY BANK.
31.	2 MP HD FIXED DOME IR COLOUR CAMERA, WITH WDR	MINIMUM 2 MP, WITH GLASS LENSES, WITH WDR AND ALL IN ONE TECHNOLOGY (SUPPORTING HDTVI/HDCVI/AHD/CVBC), (UL/ EN/EU/CE CERTIFIED)	DAHUA - DH-HAC-HDW1220RP/ HIKVISION DS-2CE56D0T-IRPF
32.	2 MP HD INFRARED BULLET CAMERAS WITH WDR	MINIMUM 2 MP, WITH GLASS LENSES, WITH WDR AND ALL IN ONE TECHNOLOGY(SUPPORTING HDTVI/HDCVI/AHD/CVBC), (UL/ EN/EU/CE CERTIFIED)	DAHUA - DH-HAC-HFW1220RP/ HIKVISION DS-2CE16D0T-IRF
33.	PIN HOLE CAMERA WITH WDR (UL/ EN/EU/CE CERTIFIED)	MINIMUM 700 TVL AND ABOVE WITH WDR. FIXED WITHIN A CAMOUFLAGING DEVICES SUCH AS PIR SENSOR OR SMOKE DETECTORS OR SIMILAR.	DH-HUM3201B(WDR)/D H-CA-P470CP-AV2/ HIKVISION DS-2CS54C8T-PH
34.	PINHOLE CAMERA HOUSING	18 SWG METALBOX (GREY) IN THE SHAPE OF SPEAKER WITH HOLES AND WITH PROVISION TO HOST PINHOLE CAMERA (HD/IP) VIEW FROM ONE OF THE HOLES	STANDARD / LEO
35.	RG 6 CO-AXIAL UN ARMoured VIDEO CABLE	RG 6 CO-AXIAL UN ARMoured VIDEO CABLE, PER METER	POLYCAB/ FINOLEX

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S No	ITEM	MINIMUM DESIRED SPECIFICATIONS FOR SUPPLY AND INSTALLATION	BRANDS & MODELS (WITH WARRANTY 2 YEARS)
36.	POWER CABLE OF 2 CORE COPPER CONDUCTOR 2 X 1.0 SQ MM	POWER CABLE OF 2 CORE COPPER CONDUCTOR 2 X 1.0 SQ MM, PER METER	POLYCAB/ FINOLEX
37.	12 V 5 AMP, SMPS POWER SUPPLY FOR CAMERAS	12V 5 AMP	IBALL, CPPLUS, HIKVISION
38.	12V ,10 AMP SMPS POWER SUPPLY FOR CAMERAS	12V 10 AMP	IBALL, CPPLUS, HIKVISION
39.	12 V 20 AMP, SMPS POWER SUPPLY FOR CAMERAS	12V 20 AMP	IBALL, CPPLUS, HIKVISION
40.	PVC ROUND CONDUIT WHITE COLOUR	PVC ROUND CONDUIT WHITE COLOUR, PER METRE	ISI MARKED
41.	PVC FLAT CONDUIT WHITE COLOUR	PVC FLAT CONDUIT WHITE COLOUR, PER METRE	ISI MARKED
42.	WIRELESS MOUSE	WIRELESS MOUSE	LOGITECH, IBALL
43.	RJ45 TO HDMI EXTENDER(ON LY WHERE THE DISTANCE BETWEEN NVR/XVR AND MONITOR IS MORE THAN 60 MTR)	EXTENDS HDMI SIGNAL OVER ONE CAT 5E / 6 CABLE, MAX DATA RATE - 3.4 GBPS, HDMI 1.3 AND HDCP COMPLIANCE, TRANSMISSION RANGE UP TO 100 METERS AT 1080P RESOLUTION, RESOLUTION : UP TO 1080P / 60 HZ / 48 BITS, DISTANCE : 100 MTR (MAX), HDMI CONNECTOR : TYPE A POWER SUPPLY : REGULATED 5V / 2AMP, POWER CONSUMPTION : 1.2 AMP (MAX), TEMPERATURE : 0 TO 55 DEGREE C.	MX, IBALL, MILESTONE
44.	HDMI CABLE 5MTR , 10 MTR, 20 MTR	HDMI VERSION 1.4 (HIGH DEFINITION MULTIMEDIA INTERFACE) GOLD PLATED CABLE PROVIDES AN UNCOMPRESSED DIGITAL LINK BETWEEN CONSUMER ELECTRONICS EQUIPMENT.	MX, BELKIN,PINNACLE

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S No	ITEM	MINIMUM DESIRED SPECIFICATIONS FOR SUPPLY AND INSTALLATION	BRANDS & MODELS (WITH WARRANTY 2 YEARS)
45.	VGA CABLE 5MTR, 10MTR, 20 MTR	VGA HDDB 15 MALE TO MX HDDB 15 MALE PLUG CORD WITH FERRITE IS A LEAD USED FOR TRANSMITTING VIDEO SIGNALS. MX VGA CORD MOST COMMONLY USED TO LINK COMPUTERS WITH MONITORS. HOWEVER IT IS NOW USED ON SOME HIGH DEFINITION TELEVISIONS. MX VGA CABLE ARE ALWAYS USED SOLELY TO CARRY ANALOG COMPONENT RGBHV (RED - GREEN - BLUE - HORIZONTAL SYNC - VERTICAL SYNC) VIDEO SIGNALS ALONG WITH DATA.	MX, BELKIN, PINNACLE
46.	POE INJECTOR(WHERE LENGTH OF 01 CAMERA CABLE IS MORE THAN 100 MTR)	COMPLIES WITH IEEE802.3AF STANDARD, DELIVERS POWER AND DATA OVER THE SINGLE CABLE UP TO 100 METERS, NO POWER CABLING FOR ETHERNET NETWORK DEVICE, ADVANCED AUTO-SENSING ALGORITHM ENABLING PROVIDING POWER WITH 802.3AF, PDSUPPORTS POWER CLASSIFICATION, AUTO-DETERMINE THE NECESSARY POWER REQUIREMENTS HIGH SAFETY WITH SHORT CIRCUIT PROTECTION PLUG & PLAY INSTALLATION, REQUIRES NO CONFIGURATION EXTERNAL 48VDC POWER SUPPLY	TPLINK, DIGISOL, DLINK
47.	HDMI SPLITTER	FOR CONNECTING TWO MONITORS FROM NVR/XVR	MILESTONE, MX
48.	VGA SPLITTER	FOR CONNECTING TWO MONITORS FROM NVR/XVR	MILESTONE, MX
49.	HDMI SWITCHER 1X2(1 OUTPUT X 2 INPUTS)	FOR CONNECTING TWO NVRS/XVRS TO SINGLE MONITOR	MILESTONE, MX
50.	VGA SWITCHER 1X2(1 OUTPUT X 2 INPUTS)	FOR CONNECTING TWO NVRS/XVRS TO SINGLE MONITOR	MILESTONE, MX
51.	64 GB MICRO SD CARD	64 GB	SANDISK
52.	128 GB MICRO SD CARD	128 GB	SANDISK

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S No	ITEM	MINIMUM DESIRED SPECIFICATIONS FOR SUPPLY AND INSTALLATION	BRANDS & MODELS (WITH WARRANTY 2 YEARS)
53.	SURGE PROTECTOR WITH 6 SOCKETS (IN LIGHTNING EFFECTED/ HEAVY POWER FLUCTUATIONS AREAS)	6 SOCKETS	MX,BELKIN, PINNACLE
54.	WIRED MOUSE	WIRED MOUSE	LOGITECH, IBALL

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B. ALARM SYSTEMS-

WARRANTY ON ALL PRODUCTS IS 2 YEARS(EXCEPT CABLES AND BATTERIES) INCLUDING 08 QUARTERLY MANDATORY SERVICE VISITS

S N O	ITEM	MINIMUM DESIRED SPECIFICATIONS FOR SUPPLY AND INSTALLATION	BRANDS & MODELS (WITH WARRANTY 2 YEARS)
1.	SMART BRANCH SECURITY AND FIRE ALARM CONTROL PANEL WITH KEY PAD(SEPARATE NOT ON BOARD)-PACKAGE	SUPPORTING BOTH SECURITY AND FIRE ALARM DETECTORS - 1.CONTROL PANEL WITH SEPARATE (NON ONBOARD) KEY PAD. 2. PSTN (AND/OR) GSM INBUILT SPEECH DIALER, CMS ENABLED (COMPATIBLE TO ANY THIRD PARTY CMS THROUGH PSTN, GSM(GPRS) & IP, MINIMUM ANY TWO) AS PER BANK REQUIREMENT. 3. SIMULTANEOUSLY AUTO DIALS PRESET NUMBERS AS WELL AS SEND ALERTS TO CMS. 4. INBUILT BATTERY BACK UP. 5. SHOULD SUPPORT AND COMMUNICATE ALERTS TO ANY THIRD PARTY CMS/HEALTH MONITORING SOFTWARE,READILY, AND THE PROTOCOL FOR COMMUNICATION SHOULD NOT BE BOUND OR LIMITED TO ANY PROPRIETARY SOFTWARE OR PROTOCOL OF THEIR OWN. SHOULD COMMUNICATE VIA SIA DC 09/CONTACT ID/CONTACT IP OR ANY INTERNATIONAL OPEN SOURCE INTRUSION PROTOCOLS. 6. SHOULD SUPPORT ZONE DOUBLING AND/OR ZONE EXPANDERS . 7. MINIMUM FEATURES: AUTO ACTIVATION ON GROUPS/PARTITION ON PRESET TIME, ARM/DISARM THROUGH SMS/IVR USING SECURE PASSKEYS, BYPASS FAULTY COMPONENTS, MINIMUM 10 PASSWORD ACCESS, PROVISION TO STORE LOGS AND EXPORT TO EXCEL, HEALTH BEAT FOR HEALTH CHECKUP MONITORING SOFTWARE , FREE PROGRAMMING SOFTWARE, FREE MOBILE MONITORING APP.	AMC X412 (FOR PSTN,IP,GSM & GPRS CONNECTIVITY)/ VIGHNAHARTA VCOP GOLD(FOR IP, GPRS & GSM CONNECTIVITY/TRIKDIS SP321 & SECURICO SEC-8S IGP (FOR IP&GPRS CONNECTIVITY) or ANY OTHER APPROVED BRAND PRIOR BY BANK.
2.	KEY PAD COMPATIBLE WITH SMART PANEL (OF THE SAME MAKE AS IN SL NO: 01 above)	FOR REPLACEMENTS	

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3.	SMART ATM SECURITY AND FIRE ALARM CONTROL PANEL WITH KEY PAD(SEPARATE NOT ON BOARD) PACKAGE	SUPPORTING BOTH SECURITY AND FIRE ALARM DETECTORS - 1. CONTROL PANEL WITH SEPARATE(NON ONBOARD) KEY PAD. 2. IP (AND/OR) GSM/GPRS INBUILT WITH CMS ENABLED (COMPATIBLE TO ANY THIRD PARTY CMS THROUGH GSM(GPRS) & IP, MINIMUM ANY ONE AS PER BANK REQUIREMENT) 3. SIMULTANEOUSLY AUTO DIALS PRESET NUMBERS AS WELL AS SEND ALERTS TO CMS. 4. INBUILT BATTERY BACK UP. 5. SHOULD SUPPORT AND COMMUNICATE ALERTS TO ANY THIRD PARTY CMS/HEALTH MONITORING SOFTWARE,READILY, AND THE PROTOCOL FOR COMMUNICATION SHOULD NOT BE BOUND OR LIMITED TO ANY PROPRIETARY SOFTWARE OR PROTOCOL OF THEIR OWN. SHOULD COMMUNICATE VIA SIA DC 09/CONTACT ID/CONTACT IP OR ANY INTERNATIONAL OPEN SOURCE INTRUSION PROTOCOLS. 6. SHOULD SUPPORT ZONE DOUBLING AND/OR ZONE EXPANDERS . 7. MINIMUM FEATURES: AUTO ACTIVATION ON GROUPS/PARTITION ON PRESET TIME, ARM/DISARM THROUGH SMS/IVR USING SECURE PASSKEYS, BYPASS FAULTY COMPONENTS, MINIMUM 10 PASSWORD ACCESS, PROVISION TO STORE LOGS AND EXPORT TO EXCEL, HEALTH BEAT FOR HEALTH CHECKUP MONITORING SOFTWARE , FREE PROGRAMMING SOFTWARE, FREE MOBILE MONITORING APP.	AMC X412 (FOR PSTN,IP,GSM & GPRS CONNECTIVITY)/ VIGHNAHARTA AVV(FOR IP, GPRS & GSM CONNECTIVITY/TRIKDIS SP321 & SECURICO SEC-8S IGP (FOR IP&GPRS CONNECTIVITY)/ HIKVISION DS 19A08(FOR IP CONNECTIVITY ONLY) or ANY OTHER APPROVED BRAND PRIOR BY BANK.
4.	KEY PAD COMPATIBLE WITH SMART PANEL (OF THE SAME MAKE AS IN SL NO: 03 above)	FOR REPLACEMENTS	
5.	ZONE EXPANDING MODULE	8 ZONE EXPANDER COMPATIBLE WITH BRAND OF SMART PANEL AS IN SL NO: 1 (AND/OR) 3 TO GO WITH SMART PANEL	COMPATIBLE WITH SL NO: 1 (AND/OR) 3

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6.	ADD ON PSTN DIALER CUM COMMUNICATOR MODULE	COMPATIBLE WITH THE BRAND OF SMART PANEL AS IN SL NO: 1 (AND/OR) 3 TO GO WITH SMART PANEL	COMPATIBLE WITH SL NO: 1 (AND/OR) 3
7.	ADD ON IP DIALER CUM COMMUNICATOR MODULE	COMPATIBLE WITH THE BRAND OF SMART PANEL AS IN SL NO: 1 (AND/OR) 3 TO GO WITH SMART PANEL	COMPATIBLE WITH SL NO: 1 (AND/OR) 3
8.	ADD ON GSM(GPRS) DIALER CUM COMMUNICATOR MODULE	COMPATIBLE WITH THE BRAND OF SMART PANEL AS IN SL NO: 1 (AND/OR) 3 TO GO WITH SMART PANEL	COMPATIBLE WITH SL NO: 1 (AND/OR) 3
9.	CONVENTIONAL PSTN SPEECH AUTO DIALER COMPATIBLE TO CURRENTLY INSTALLED CONVENTIONAL PANELS	HAVING FOLLOWING BASIC FEATURES - MIN 5 TELEPHONE NUMBERS HAVING 16 DIGIT TELEPHONE NUMBER, PROVISION FOR MIN 3 MESSAGES .	NS-AD-2222/VIGHNAHARTA /SCEURICO SD2000
10.	CONVENTIONAL GSM SPEECH AND SMS AUTO DIALER COMPATIBLE TO CURRENTLY INSTALLED CONVENTIONAL PANELS	GSM BASED, 03 VOICE MESSAGES, MIN 10 TELEPHONE NUMBERS	HIKVISION PHDIGISM/ND- AD-4040/VIGHNAHARTA AD 4010/SEC-GX GSMD
11.	SMART GSM(GPRS) COMMUNICATOR FOR HEALTH MONITORING OF OLD CONVENTIONAL PANELS	SIA DC-09/CID PROTOCOL ENABLED GSM(GPRS) COMMUNICATOR FOR HEALTH MONITORING OF OLD CONVENTIONAL PANELS	TRIKDIS-G16T/EQUIVALENT

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12.	SMART ETHERNET (IP) COMMUNICATOR FOR HEALTH MONITORING OF OLD CONVENTIONAL PANELS	SIA DC-09/CID PROTOCOL ENABLED ETHERNET (IP) COMMUNICATOR FOR HEALTH MONITORING OF OLD CONVENTIONAL PANELS	TRIKDIS-E16T/VIGNAHARTA SAP 500
13.	SIM CARD WITH DATA CONNECTION PACKAGE RATE PER YEAR	WITH MIN 1GB DATA, 100 SMS PER MONTH	BSNL/JIO/AIRTEL
14.	SMART STANDALONE FIRE ALARM CONTROL PANEL WITH ONBOARD KEYPAD	2 ZONE SMART FIRE PANEL WITH CAPACITY OF 20 SMOKE DETECTORS PER ZONE. METAL CASE WITH PSTN AUTO DIALER. WIFI CLOUD CONNECTIVITY ON ANDROID APP. GSM/IP COMPATIBILITY FOR CONNECTIVITY TO THIRD PARTY CMS IN FUTURE THROUGH OPENSOURCE PROTOCOLS. OPERATING VOLTAGE 180-240 V WITH VISUAL ZONE INDICATORS MAINS, BATTERY, SHOWING FIRE, OPEN, SHORT FAULT, RESET, ZONE AND HOOPER TESTS, ETC, PUSH BUTTONS TO DISABLE AUDIO ALARM WITH BATTERY BACKUP.	RAVEL/VIGNAHARTA/ SECURICO or ANY OTHER APPROVED BRAND PRIOR BY BANK.
15.	CONVENTIONAL SOUNDERS	4WIRED CONVENTIONAL SOUNDERS(02 FOR POWER & 02 FOR TAMPER), MIN 120 DB	SECURICO/ EQUIVALENT
16.	SOUNDER WITH INBUILT BATTERY BACKUP	SOUNDER WITH MIN 120DB SOUND LEVEL, THAT SUPPORTS THE EVENTS OF TAMPER OR POWER CUT TO THE SOUNDER. HAVING UNBUILT BATTERY BACKUP FOR 24 HRS MIN	
17.	PIR SENSORS(PET SAFE)	PIR SENSORS WITH QUAD LINEAR TECHNOLOGY, WITH PET IMMUNITY UPTO 25 KG	DSC-LC-100/ EQUIVALENT
18.	PANIC SWITCHES	MICRO SWITCH TECHNOLOGY, AUTO RESET BUTTON, INBUILT TAMPER, STURDY ABS HOUSING WITH STAINLESS STEEL FINISH COVER PLATE	SECURICO/ EQUIVALENT
19.	MAGNETIC CONTACT	METAL MAGNETIC CONTACT SMALL	SECURICO/ EQUIVALENT
20.	VIBRATION SENSOR	WITH ADJUSTABLE SENSITIVITY SENSOR	HIKVISION DS-PH-DSVB1/ SEC MFD

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21.	TEMPERATURE SENSOR	SECUIRCO/ EQUIVALENT	SECUIRCO/ EQUIVALENT
22.	SHUTTER SENSOR	SECUIRCO/ EQUIVALENT	SECUIRCO/ EQUIVALENT
23.	UV FLAME DETECTOR	ULTRAVIOLET FLAME DETECTOR	GST/TAKEX/SYSTEM SENSOR/APOLLO/RAVEL
24.	LDR SENSOR	TO BE USED INSIDE STRONG ROOM	
25.	GLASS BREAK SENSOR	GLASS BREAK SENSOR	SECUIRCO/ EQUIVALENT
26.	OPTICAL SMOKE DETECTOR	DUST PROOF, MOTH PROOF	SYSTEMS SENSOR / APOLLO/RAVEL
27.	HEAT DETECTOR	CONVENTIONAL HEAT DETECTOR WITH WITH 360 DEGREES DIRECTION WITH MIN 25 DEGREES TRIGGER	SYSTEMS SENSOR / APOLLO/RAVEL
28.	RATE OF RISE HEAT DETECTOR	ROR WITH RAPID RISE ELEMENT OF TEMPERATURE OF 6.7 DEGREES TO 8.3DEGREES CENTIGRADE INCREASE PER MINUTE	SYSTEMS SENSOR / APOLLO/RAVEL
29.	RESPONSE INDICATOR	FOR ANY FIRE DETECTOR	SYSTEMS SENSOR / APOLLO/RAVEL
30.	MCP	FOR FIRE ALARM,	SYSTEMS SENSOR / APOLLO/RAVEL/
31.	CONVENTIONA L BRANCH BURGLAR ALARM CONTROL PANEL WITH SPEECH AUTO DIALER AS A PACKAGE	OPERATING VOLTAGE 180-240 V , WITH EXTENDABLE ZONE INDICATOR, CAPABLE OF CATERING FOR ATLEAST 15 ALARM SENSORS WITH BATTERY BACKUP. WITH DAY AND NIGHT MODE WITH KEY/CODE TYPE OPERATIONS, METAL CASE WITH PSTN SPEECH AUTO DIALER INCLUDED.	ERTL/EL/UN/CE/EN/STQC CERTIFIED BRANDS
32.	ADDRESSABLE FIRE ALARM FOR MULTI STORY BUILDING- WITH TWO LOOP SYSTEM	MICROPROCESSOR BASED ADDRESSABLE TYPE FIRE ALARM CONTROL PANEL.THE PANEL SHOULD BE EQUIPPED WITH SUFFICIENT NUMBERS OF LOOP WITH 20% SPARE CAPACITY. FOUR ACCESS LEVELS, CAPABLE OF AUTO LEARN DEVICES, FLASH EPROM SUFFICIENT NUMBERS OF PROGRAMMABLE RELAY CONTROLS FOR CONTROLLING AHUS, PRESSURIZATION FANS, VENTILATION FANS AT FIRE PUMP ROOM, MONITORING OF FIRE SPRINKLER AND FIRE HYDRANT PUMP, 240 VOLTS AC POWER SUPPLY, AUTOMATIC BATTERY	TRUESAFE V.252.2, RAVEL & MORLEY

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		<p>CHARGER, 24 VOLTS SEALED LEAD ACID BATTERIES SUFFICIENT FOR 24 HOURS NORMAL WORKING AND THEN BE CAPABLE OF OPERATING THE SYSTEM FOR 2 HOURS DURING AN EMERGENCY CONDITIONS.4.</p> <p>SHOULD STORE 2100 EVENT WITH REAL TIME CLOCK WITH COUSE AND EFFECT UP TO 99 GROUPING FACILITY,2. INBUILT MODBUS FACILITY, SUPPORTS MICRO USB INTERFACE FOR PC CONNECTIVITY AND RS 485 COMMUNICATION FACILITY FOR NETWORK / REPEATER,7. SHOULD BE COMPATIBLE WITH THIRD PARTY CMS USING ITS OWN IP MODULE FOR COMMUNICATING OPEN PROTOCOLS LIKE SIA DC 09 PROTOCOL OR CONTACT ID . THE PANEL SHOULD CERTIFIED EN 54-2 AND EN54-4</p>	
33.	REPEATER PANEL	<p>SUPPLY OF REPEATER PANEL WITH 128X64 DOTS GRAPHICS LCD DISPLAY. THAT SHOULD DISPLAY ALL EVENTS / DETECTORS, DEVICES STATUS OF COMPLETE SYSTEMS. CONNECTIVITY THROUGH RS-485 COMMUNICATION.LED INDICATIONS FOR FIRE & COMMON FAULT MODES ON FRONT PANEL. LOCAL BUZZER INDICATION FOR FIRE & FAULT. NO NEED OF SEPARATE POWER SUPPLY. POWER IS DRAWN FROM MAIN FIRE PANEL. FULL CONTROL OF MAIN FIRE PANEL FROM THE REPEATER PANEL. AUTOLEARN OF MAIN FIRE PANEL PROVIDED.</p>	TRUESAFE , RAVEL & MORLEY
34.	ADDRESSABLE OPTICAL SMOKE DETECTOR	<p>ADDRESSABLE OPTICAL SMOKE DETECTOR WITH ALARM LED'S AND MOUNTING BASE. APPROVALS- LPCB, VDS,UL</p>	APOLLO 58000-600APO , RAVEL, ADVANCED
35.	ADDRESSABLE HEAT DETECTOR	<p>ADDRESSABLE OPTICAL HEAT DETECTOR WITH ALARM LED'S AND MOUNTING BASE. APPROVALS- LPCB, VDS,UL</p>	APOLLO 55000-450APO, RAVEL, ADVANCED
36.	ADDRESSABLE SOUNDER/ FLASHER	<p>ADDRESSABLE HOOTER CUM STROBE. APPROVALS- LPCB</p>	APOLLO 58000-005APO, RAVEL, ADVANCED
37.	ADDRESSABLE INPUT/ OUTPUT MODULES	<p>I/O UNIT PROVIDES SUPERVISION OF ONE OR MORE NORMALLY OPEN CONTACTS CONNECTED TO A SINGLE PAIR OF CABLES AND A SET OF CHANGE OVER RELAY OUTPUT CONTACTS. APPROVALS- LPCB,VDS</p>	APOLLO SA4700-102APO, RAVEL, ADVANCED

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38.	ADDRESSABLE MANUAL CALL POINT	ADDRESSABLE MANUAL CALL POINT WITH KEY FOR RST PURPOSE, APPROVALS- VNIPO (ALL RUSSION INSTITUTE FOR FIRE PROTECTION CERTIFICATE)	APOLLO SA5900-908RUS, RAVEL, ADVANCED
39.	SWITCH MONITOR MODULE	ADDRESSABLE MONITOR MODULES FOR SPRINKLER FLOW SWITCH AND FOR OFFICE ETC. IT IS DESIGN TO MONITOR SINGLE POLE, VOLT FREE CONTACTS LIKE CONVENTIONAL DEVICES. APPROVALS- LPCB, VDS	APOLLO 55000-760APO, RAVEL, ADVANCED
40.	ZONE MONITOR MODULE	ZONE MONITOR WITH ISOLATOR POWERS AND CONTROLS THE OPERATION OF A ZONE OF UP TO 20 ORBIS . IN BUILD BIDIRECTIONAL SHORT CIRCUIT ISOLATOR APPROVALS-LPCB, VDS	APOLLO 55000-845APO, RAVEL, ADVANCED
41.	ADDRESSABLE FLAME DETECTOR	THE INTELLIGENT BASE MOUNTED UV FLAME DETECTOR IS DESIGNED TO PROTECT ENCLOSED INDOOR AREAS WHERE OPEN FIRES MAY BE EXPECTED. THE DETECTOR HAS A FAST ACTING RESPONSE TO FLAMES UP TO 25M AWAY AND IS EQUIPPED WITH A SINGLE UV SENSOR WITH A NARROW SPECTRAL RESPONSE IN ORDER TO DISCRIMINATE BETWEEN FLAMES AND MOST SPURIOUS SOURCES OF RADIATION	APOLLO 55000-022APO, RAVEL, ADVANCED
42.	BATTERY	12V 7 AH	EXIDE /AMARON/ROCKWELL EQUIVALENT
43.	ACRYLIC STICKER (1FT X 1FT) WITH "EMERGENCY CALL POLICE" PRINTED IN RED ON IT FOR PANIC BUTTON IN ATM	TO BE FIXED BELOW THE PANIC BUTTON OF ATM BURGLAR ALARM.PANIC BUTTON CAN BE FIXED IN THE CENTER/ABOVE/BELOW THE STICKER AS PER CONVENIENCE.	
44.	SHUTTER GUARD GSM BASED, WITH BUILT IN BATTERY AND BUILT IN HOOTER	GSM BASED , HOOTER IN-BUILT, IN-BUILT 3.7V LITHIUM ION BATTERY, ALERT THROUGH CALL, SMS AND INBUILT HOOTER ALARM*, LED INDICATORS FOR CHARGING & ACTIVITY, MINIMUM 5 PHONE NUMBER FOR ALERTS, PROGRAMBLE ENTRY/EXIT DELAY TIME, PASSCODE PROTECTED	DIGITALS/EQUIVALENT

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45.	CASH CABIN ALARM	WITH MAGNETIC CONTACT AND BEEP SOUND TO ALERT THE CASHIER WHEN THE CASH CABIN DOOR IS OPEN. WITH/WITHOUT INBUILT BATTERY. DELAY ADJUSTABLE.	
46.	ULTRASOUND PEST REPELLENT	ULTRASOUND PEST REPELLENT WITH OR WITHOUT INBUILT BATTERY	SNEHA/EQUIVALENT
47.	ARMORED CABLE 2 CORE 1.5 SQ MM, ISI MARKED	FOR FIRE DETECTORS	POLYCAB OR FINOLEX
48.	CABLE OF 2 CORE COPPER SHIELDED 2 X 1.0 SQ MM, FLEXIBLE WIRE. (NOT REGULAR OR ARMOURED)	FOR SIREN AND SWITCHES OF INTRUSION ALARM	POLYCAB OR FINOLEX
49.	CABLE OF 4 CORE COPPER SHIELDED 4 X 0.5 SQ MM, FLEXIBLE WIRE (NOT REGULAR OR ARMOURED)	FOR PIR, VIBRATION SENSOR AND INCOMING POWER SUPPLY FOR PANEL	POLYCAB OR FINOLEX
50.	PVC ROUND CONDUIT WHITE COLOUR		ISI
51.	BLACK CONDUIT		ISI
52.	SURGE PROTECTOR WITH 6 SOCKETS (IN LIGHTNING EFFECTED/ HEAVY POWER FLUCTUATIONS AREAS)	6 SOCKETS	MX,BELKIN,PINNACLE

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PRICE BID

AMC RATES IN INR (EXCLUDING GST)			
S.NO	SECURITY DEVICES	RATE PER QUARTER	RATE PER ANNUM
1	AMC RATE PER BRANCH FOR CCTV		
2	AMC RATE PER BRANCH FOR FIRE/ BURGLARY ALARM SYSTEM		
3	AMC RATE FOR VISIT / SERVICE FOR FIRE EXTINGUISHERS PER BRANCH		
4	AMC rate for Anadaman and Nicobar Island		

Date:

Signature of authorized signatory

Place:

Seal of the company

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BOQ FOR NEW INSTALLATION OF 8 CHANEL NVR BASED CCTV SYSTEM WITH 2 YEARS WARRANTY

Sl. No	Item	Specification for supply and installation	Unit	Qty	Unit Rate	Final Amount
1	Network Video Recorder- 8 Channel with 02 SATA HDD Port	8 Channel, Compact 1U, NVR; UL/EN/CE/EU Certified, H.265+/H.264 CODEC Decoding, Max 320 MBPS Incoming Bandwidth, Up to 8 MP Resolution Preview & Playback, HDMI/VGA Simultaneous Video Output, Support TCP / IP UPNP, ONVIF Compatible, 2 SATA III port, Upto 8 TB Capacity for Each HDD and Free programming software. INTERFACE 1 RJ-45 PORT (10/100/1000 Mbps). Included wireless mouse. Make-HikVision/Dahua/CP PLUS etc. or ANY OTHER APPROVED BRAND PRIOR BY BANK.	Nos.	1		
2	6 TB Surveillance Hard Disc	UL, WD- AVGP Series/ SEAGATE	Nos.	2		
3	2 MP Fixed Dome IP IR Camera	UL Certified, 2MP IP Network IR Camera, H.265+ & H.265 dual Stream Encoding, 25/30 FPS @ 1080 P(1920*1080) DWDR, Day Night(ICR), 3 DNR, AWB, AGC,BLC, Multiple Network Monitoring; Web Viewer.2.8 MM Fixed lens(3.6 MM optional), Max IR LEDES Length 30M, IP67, POE. Included SMPS power supply. Make-HikVision/Dahua/CP PLUS etc.	No.	7		

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4	2 MP Pinhole IP IR Camera	UL Certified, 2MP IP Network IR Camera, H.265, H.264 & MJPEG Triple Stream Encoding & WDR 1/2.7" 2 MP Progressive CMOS, 25/30 FPS @ 1080 P(1920*1080) DWDR, 3 DNR, AWB, AGC,BLC, Multiple Network Monitoring; Web Viewer.2.8 MM Pin hole lenses. Included SMPS power supply. Includes 18 SWG Metalbox (Grey) in the shape of speaker with holes and provision to host pinhole camera (HD/IP) view from one of the hole. Make-HikVision/Dahua/CP PLUS etc.	No.	1		
5	LED Monitor 22"	22" Surveillance grade Monitor with HDMI & VGA Input. Make: SONY/Samsung, Asus, Acer etc or any ISI approved brand by Bank.	Nos.	1		
6	Rack 4U with Lock and Fan for 8 Channel NVR.	Front Door with toughened Glass Quality, Adjustable mounting Rails, Front and Back, 1 Fan mounting provision, Top and Bottom, Cable entry Provided optimal flexibilityfor cable management Easy wall mount provision, Easy Installation-Standing /Wall mounting option. Frame structure with Max loading capacity Upto 60KG.	Nos.	1		
7	ARMoured CAT 6 Cable	ARMoured CAT 6 , core diametre 0.585 mm, 305M CCA, Transmission Distance upto 85M per metr	Mtr	150		
8	RJ45 CONNECTOR	RJ45 CONNECTOR	NO.	16		
9	2 CORE POWER CABLE	POWER CABLE OF 2 CORE COPPER CONDUCTOR 2*1.0 SQMM PER METRE	MTR	20		
10	HDMI CABLE	HDMI VERSION 1.4 (HD MULTIMEDIA INTERFACE) GOLD PLATED CABLE PROVIDES AN UNCOMPRESSES DIGITAL LINK BETWEEN CONSUMER ELECTRONICS EQUIPMENT.	MTR	10		
11	USB EXTENTION CABLE FOR MOUSE	USB EXTENTION CABLE FOR MOUSE		5		

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12	8 PORT POE NETWORK SWITCH WITH BOX	ETHERNET PORT 1*10/100 BASE -T8*10 /100 BASE-T (POE POWER SUPPLY), POE POWER CONSUMPTION PORT 1<_8,_30w, TOTAL <_ 96W, LAYER TWO COMMERCIAL SWITCH-SUPPORTS IEEE 802.3, IEEE 802.3 U AND IEEE802.3X STANDARDS. MAC AUTO LEARNING , AGING, MAC ADDRESS CAPACITY IS 2K. SUPPORTS MDI/MDIX SELF ADAPTION. SUPPORT POE, POE+, HI-POE. ADOPTS METALS ENCLOUSER.	No.	1		
13	SURGE PROTECTOR WITH 6 SOCKETS	SURGE PROTECTOR WITH 6 SOCKETS (IN LIGHTNING EFFECTED / HEAVY POWER FLUCTUATIONS AREAS)	NO.	1		
Total (A)						

Rate shall be exclusive of GST. GST will be paid as per applicable rate.

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BOQ FOR NEW INSTALLATION FOR INTEGRATED ALARM SYSTEM WITH 2 YEARS WARRANTY:

Sl. No	Item	Specification for supply and installation	Unit	Qty	Unit Rate	Final Amount
1	SMART BRANCH SECURITY AND FIRE ALARM CONTROL PANEL WITH KEY PAD(SEPARATE NOT ON BOARD) PACKAGE (16 zone IP based integrated alarm)	SUPPORT BOTH SECURITY AND FIRE ALARM DETECTORS-UL/EN/ETDC/CE CERTIFIED 1. CONTROL PANEL WITH SEPARATE (NON ONBOARD) KEY PAD. 2. PSTN(AND OR) GSM INBUILT SPEACH DIALER, CMS ENABLED(COMPATIBLE TO ANY THIRD PARTY CMS THROUGH PSTN,GSM(GRPS) & ip, MINIMUM ANY TWO) AS PER BANK REQUIREMENT. 3. SIMULTANEOUSY AUTO DIALOR PRESET NUMBER AS WELL AS SEND ALERTS TO CMS. 4. INBUILT BATTERY BACK UP. 5. SHOULD SUPPORT AND COMMUNICATE ALERTS TO ANY THIRD PARTY CMS/ HEALTH MONITORING SOFTWARE,READILY AND THE PROTOCOL FOR COMMUNICATION SHOULD NOT BE BOUND OR LIMITED TO ANY PROPRIETARY SOFTWARE OR PROTOCOL OF THEIR OWN. 6. SHOULD COMMUNICATE VIA SIA DC 09/CONTACT ID/ OR ZONE EXPANDERS 7. MINIMUM FEATURES AUTO ACTIVATION ON GROUPS/PARTITION ON PRESET TIME, ARM/DISARM THROUGH SMS/IVR USING SECURE PASSKEYS, BY PASS FAULTY COMPONENTS,MINIMUM 10 PASSWORD ACCESS,PROVISION TO STORE LOGS AND EXPORT TO EXCEL, HEALTH BEAT FOR HEALTH CHECKUP MONITORING SOFTWARE,FREE PROGRAMMEING SOFTWARE,FREE MOBILE MONITORING APP. MAKE/MODEL: AMC X412 (FOR PSTN,IP,GSM & GPRS CONNECTIVITY)/ VIGHNAHARTA AVV(FOR IP, GPRS & GSM CONNECTIVITY/TRIKDIS SP321 & SECURICO SEC-8S IGP (FOR IP&GPRS CONNECTIVITY)/ HIKVISION DS 19A08(FOR IP CONNECTIVITY ONLY) or ANY OTHER APPROVED BRAND PRIOR BY BANK.	Nos.	1		
2	CONVENTIONAL SOUNDERS	4 WIRED CONCVENTIONAL SOUNDERS(02 FOR POWER & 02 FOR TAMPER) MIN 120 DB	Nos.	2		
3	PIR SENSORS(PET SAFE)	PIR SENSRS WIH QUAD LINEAR TECHNOLOGY WITH PET IMMUNITY UPTO 25 KG.	Nos.	2		
4	PANIC SWITCHES	MICRO SWITCH TECHNOLOGY AUTO RESET BUTTON, INBUILT TAMPER,STURDY ABS HOUSING WITH STAINLESS STEEL FINISH COVER PLATE.	Nos.	2		
5	MAGNETIC CONTACT	METAL MAGNETIC CONTACT SMALL	Nos.	2		
6	VIBRATION SENSOR	WITH Adjustable sensitivity sensor	Nos.	4		
7	MANUAL CALL POINT		Nos.	4		
8	SHUTTER SENSOR	SECUIRICO /EQUIVALANT	Nos.	2		
9	GLASS BREAK SENSOR	GLASS BREAK SENSOR	Nos.	2		

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DOCUMENT FOR EMPANELMENT

10	OPTICAL SMOKE DETECTOR	DUST PROOF, MOTH PROOF	Nos.	10		
11	HEAT DETECTOR	CONVENTIONAL HEAT DETECTOR WITH 360 DEGREES DIRECTION WITH MIN 25 DEGREES TRIGGER	Nos.	5		
12	RESPONSE INDICATOR	FOR ANY FIRE DETECTOR	Nos.	3		
13	MCP	FOR FIRE ALARM	Nos.	2		
14	BATTERY	12 V 7 AH	Nos.	1		
15	ARMORED CABLE 2 CORE 1.5 SQ MM ISI MARKED	FOR FIRE DETECTORS	Mtr	150		
16	CABLE OF 2 CORE COPPER SHIELDER 2*1.0 SQ MM, FLEXIBLE WIRE (NOT REGULAR OR ARMORED)	FOR SIREN AND SWITCHES OF INTRUSION ALARM	Mtr	150		
17	PVC ROUND CONDUIT WHITE COLOUR		Mtr	150		
Total						

Rate shall be exclusive of GST. GST will be paid as per applicable rate.

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 PRICE BID - CCTV SYSTEMS (Rates shall be quoted as per technical specification mentioned above)		
S.No	ITEMS	PRICE IN INR EXCL GST
1	NETWORK VIDEO RECORDER - 4 CHANNEL WITH 02 SATA HDD PORTs	
2	NETWORK VIDEO RECORDER - 8 CHANNEL WITH 02 SATA HDD PORTS	
3	NETWORK VIDEO RECORDER - 16 CHANNEL WITH 04 SATA HDD PORT	
4	NETWORK VIDEO RECORDER - 32 CHANNEL 04 SATA HDD PORT	
5	NETWORK VIDEO RECORDER - 64 CHANNEL 08 SATA HDD PORT	
6	DIGITAL VIDEO RECORDER - 32 Channel	
7	DIGITAL VIDEO RECORDER - 16 Channel	
8	DIGITAL VIDEO RECORDER - 8 Channel	
9	2 MP FIXED DOME IP IR CAMERA (UL CERTIFIED)	
10	2 MP BULLET IP IR CAMERA (UL CERTIFIED)	
11	2 MP PINHOLE IP IR CAMERA (UL/ CERTIFIED)	
12	2 MP BULLET/DOME VERIFOICAL IR CAMERA (UL/ CERTIFIED)	
13	2 MP FIXED DOME HD IR CAMERA (UL CERTIFIED)FOR DVR	
14	2 MP BULLET IR CAMERA HD (UL CERTIFIED) FOR DVR	
15	8 TB SURVEILLANCE HARD DISC	
16	6 TB SURVEILLANCE HARD DISC	
17	4 TB SURVEILLANCE HARD DISC	
18	2 TB SURVEILLANCE HARD DISC	
19	4 PORT POE NETWORK SWITCH	
20	8 PORT POE NETWORK SWITCH TO BE INSTALLED WITH 8 CHL NVR	
21	16 PORT POE NETWORK SWITCH WITH 16/32 CHL NVR	
22	24 PORT POE NETWORK SWITCH WITH 32 CHL NVR	
23	MONITOR- LED 21" FOR 4 CHANNEL	
24	MONITOR- LED 32" FOR 8 CHANNEL	
25	MONITOR- LED 43" FOR 16 CHANNEL	
26	MONITOR- LED 55" FOR 32 / 64 CHANNEL	
27	CAT 6 CABLEPER METRE	
28	ARMOURED CAT 6 CABLEPER METRE	
29	RACK 4 U WITH LOCK AND FAN , FOR 4 & 8 CHANNEL NVR	
30	RACK 6 U WITH LOCK AND FAN, FOR 16 & 32 CHANNEL NVR	
31	RG 6 CO-AXIAL UN ARMOURED VIDEO CABLE	
32	POWER CABLE OF 2 CORE COPPER CONDUCTOR 2 X 1.0 SQ MM	

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33	12 V 5 AMP, SMPS POWER SUPPLY FOR CAMERAS	
34	12V ,10 AMP SMPS POWER SUPPLY FOR CAMERAS	
35	12 V 20 AMP, SMPS POWER SUPPLY FOR CAMERAS	
36	PVC ROUND CONDUIT WHITE COLOUR	
37	PVC FLAT CONDUIT WHITE COLOUR	
38	WIRELESS MOUSE/ KEYBOARD	
39	RJ45 TO HDMI EXTENDER	
40	HDMI CABLE PER METRE	
41	VGA CABLE PER METRE	
42	POE INJECTOR(WHERE LENGTH OF 01 CAMERA CABLE IS MORE THAN 100 MTR)	
43	HDMI SPLTTER	
44	VGA SPLITTER	
45	HDMI SWITCHER 1X2(1 OUTPUTX02 INPUTS)	
46	VGA SWITCHER 1X2(1 OUTPUTX02 INPUTS)	
47	SURGE PROTECTOR WITH 6 SOCKETS (IN LIGHTNING EFFECTED/ HEAVY POWER FLUCTUATIONS AREAS)	
48	Reinstallation Charge / installation charge	

Date:

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Place:

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FIRE ALARM SYSTEM		
(Rates shall be quoted as per technical specification mentioned above)		
S. N	ITEMS	PRICE IN INR EXCL GST
1	EIGHT Zone Fire Alarm control panel -SMART STANDALONE	
2	TWELVE Zone Fire Alarm control panel -SMART STANDALONE	
3	ADDRESSABLE FA SYSTEM - WITH TWO LOOP SYSTEM	
4	REPEATER PANEL	
5	Cost of 12V / 7 AH battery	
6	Cost of Optical Smoke detector	
7	Cost of Heat detector	
8	Cost of Response Indicator	
9	Cost of Manual call point	
10	Cost of Hooter	
11	Cost of Auto dialer	
12	Cost of GSM Auto dialer	
13	Fire Alarm system wiring charges for 1.5 sq mm Armored cable Rs per metre	
14	CABLE 2 CORE CU 2 X 1 SQ MM PER METRE	
15	CABLE 4 CORE CU 4 X .5 SQ MM PER METRE	
16	PVC ROUND CONDUIT	
17	Mother Board - 2 zone	
18	Mother Board - 4 zone	
19	Mother Board - 8 zone	

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20	Mother Board - 12 zone	
21	Mother Board - 16 zone	
22	Shifting charges	

Date:

Signature of authorized signatory

Place:

Seal of the company

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BURGLARY ALARM SYSTEM		
(Rates shall be quoted as per technical specification mentioned above)		
S. N	ITEMS	PRICE IN INR EXCL GST
1	EIGHT Zone Burglary Alarm control panel -SMART STANDALONE	
2	TWELVE Zone Burglary Alarm control panel -SMART STANDALONE	
3	ADDRESSABLE BA SYSTEM - WITH TWO LOOP SYSTEM	
4	REPEATER PANEL	
5	Cost of 12V / 7 AH battery	
6	Cost of Panic switch foot type	
7	Cost of Panic switch button type	
8	Cost of magnetic sensor	
9	Cost of vibration sensor	
10	Cost of PIR sensor	
11	Cost of Hooter	
12	Cost of Auto dialer	
13	Cost of GSM Auto dialer	
14	Burglary Alarm system wiring charges for 1.5 sq mm Armored cable Rs per metre	
15	CABLE 2 CORE CU 2 X 1 SQ MM PER METRE	
16	CABLE 4 CORE CU 4 X .5 SQ MM PER METRE	
17	PVC ROUND CONDUIT	
18	Mother Board - 2 zone	

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19	Mother Board - 4 zone	
20	Mother Board - 8 zone	
21	Mother Board - 12 zone	
22	Mother Board - 16 zone	
23	Shifting charges	

Date:

Signature of authorized signatory

Place:

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PRICE BID FOR FIRE EXTINGUISHERS			
S.No	ITEMS Fire Extinguisher approved Make: SAFE PRO/CEASE FIRE/SAFEX FIRE	PRICE IN INR EXCL GST	
		NEW	REFILL
1	Water type Fire Extinguisher of 9 Ltrs AFFF. Capacity supplied Complete with wall Mounting Bracket as per IS:15683/2006 specification with ISI Mark.		
2	Dry Chemical powder - 6Kgs capacity complete with initial charge and wall Mounting Bracket as per IS:15683/2006 Specification with ISI mark.		
3	Dry Chemical Powder type 5kgs Fire Extinguisher with ISI Mark (Powder with recharged Co2 Gas Cartridge)		
4	Dry Chemical Powder type 25kgs Fire Extinguisher with ISI Mark (Powder with recharged Co2 Gas Cartridge)		
5	ABC Stored pressure type Fire Extinguisher of 4 Kgs. Capacity with Mono Ammonium Phosphate Powder as per IS:15683 specification with ISI mark		
6	ABC Stored pressure type Fire Extinguisher of 2Kgs.Capacity with Mono AmmoniumPhosphate Powder as per IS:15683/2006 specification with ISI mark.		
7	Co2 type Fire Extinguisher of 2Kg capacity		
8	'Co2 Type Fire Extinguisher of 4.5 kgs capacity		
9	'Co2 Type Fire Extinguisher of 9 kgs capacity		
10	ABC 5Kgs capacity Modular type Fire Extinguisher (Automatic)		
11	ABC 9 kg capacity Modular type Fire Extinguisher (Automatic)		
12	50 ltrs Mechanical Foam Fire Extinguisher Cartridge type		

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13	01 kg Clean Agent Fire Extinguisher		
14	02 kgs Clean Agent Fire Extinguisher		
15	05 kgs clean Agent Fire Extinguisher		
16	Gun metal Valve - Co2		
17	Co 2 Valve		
18	CO2 Hose and Horn		
19	CO2 Wheel Operating		
20	Co2 Body Handle		
21	Co2 Body Handle Gripper		
22	Cap and Gauge washers		
23	Hoses for DCP/ABC/WATER CO2		
24	Hydraulic Pressure Testing for CO2 type Fire Extinguishers (Once in 5 Years only or whenever called for)		
25	Floor Stand for Fire Extinguisher		
26	Modular ABC Valve		
27	Pressure Guage		
28	Bend & Horn		
29	ABC 4/6 kg Hose		
30	ABC 4/6 kg Valve		
31	ABC 4/6 kg Pressure Guage		
32	SP Mechanical Foam 9 ltrs Hose		
33	SP Mechanical Foam 9 ltrs Valve		
34	SP Mechanical Foam 9 ltrs Pressure Guage		
35	Mechanical Foam 50 ltrs Hose		
36	Mechanical 50 Ltrs Union Cap		
37	SP WCo2 9 ltrs Hose		
38	SP WCo2 9 ltrs Valve		
39	SP WCo2 9 ltrs Pressure Guage		
40	DCP 25 kg Hose		
41	DCP 25 kg Union Cap		
42	SP Mechanical Foam/ WCo2 Safety Pin		

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43	Shifting / Reinstallation/installation	
44	Fire ball	

Date:

Signature of authorized signatory

Place:

***** END OF DOCUMENTS *****

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