

**CIRCLE OFFICE, GENERAL ADMINISTRATION SECTION**

**4TH Floor, Kaushalya Chambers, P.P Compound, Mahatma Gandhi
Road
Ranchi- 834 001**

REQUEST FOR PROPOSAL**(Notice Inviting Tender)****RFP NO.1:SEC EQPT-RFP:1/2024 dated 11/03/2024**

**FOR EMPANELMENT FOR
SUPPLY/INSTALLATION/TESTING/COMMISSIONING OF
SECURITY EQUIPMENT SERVICE PROVIDERS (CCTV SYSTEM, FIRE
ALARM SYSTEM , FIRE EXTINGUISHERS, BURGLAR ALARM SYSTEM
,AUTO DIALER & BIOMETRIC ACCESS CONTROL SYSTEM (BACS) ETC.)**

**AT VARIOUS BRANCHES/ATMs/ADMINISTRATIVE OFFICES
OF
CANARA BANK CIRCLE OFFICE
RANCHI**

**NOTICE TYPE : DOMESTIC TENDER NOTICE
AUTHORITY TYPE : PUBLIC SECTOR BANK**

ISSUED BY

**ASST. GENERAL MANAGER
CANARA BANK , CIRCLE OFFICE , 4TH FLOOR , KAUSHALYA
CHAMBERS,
P.P. COMPOUND , M.G. ROAD , RANCHI-834001
Email: premieranchico@canarabank.com
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EMPANELMENT DOCUMENT

(Document Fee – Rs. 590.00, by the way of non-refundable DD in favour of Canara Bank, Circle Office Ranchi payable at Ranchi)

This document consists of the following.

- a. Notice inviting applications for empanelment of Security equipment service providers (CCTV Systems, Fire Alarm, Burglar Alarm , Auto Dialer System, Fire Extinguishers & Biometric Access Control System (BACS) etc.)
- b. General rules and instructions to the intending applicants.
- c. Scope & Eligibility criteria for various categories.
- d. Application format for empanelment
- e. Financial bid

NOTICE FOR EMPANELMENT

Internal

General Administration Section of Canara Bank, Circle Office , Ranchi is managing Bank's branches/office premises at various locations of the state of Jharkhand. The intention of this notice of empanelment is to maintain a separate panel of various contractors/vendors/suppliers/firms under various categories for various types of works as and when required by the bank.

Note: The panel will only be valid for the state of Jharkhand.

GENERAL RULES AND INSTRUCTIONS TO THE INTENDING APPLICANTS

1. Details of RFP:-

a.	Name of the Work	Empanelment for Supply/Installation/Testing/Commissioning Of Security Equipment Service Providers (Cctv System, Fire Alarm System , Fire Extinguishers, Burglar Alarm System ,Auto Dialer & Biometric Access Control System (Bacs) Etc.)
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b.	Location of Work	Various locations of Branches / ATMs / Administrative Offices coming under Circle Office Ranchi.
c.	Issue of tender document	13.03.2024
d.	Last date of submission of pre-bid queries	18.03.2024 till 05:00 pm
e.	Pre-bid meeting	19.03.2024 03:00 pm
f.	Last date of submission of Tender	27.03.2024 till 05:00 pm
g.	Opening of Technical bids	27.03.2024 Internal
h.	Demonstration as per technical specifications of the Bank	28.03.2024
i.	Opening of Financial bids	Date & time will be informed to the qualified bidders through e-mail/ letter.
j.	Tender documents (soft copy)	Can be downloaded free of cost from Canara Bank's web site & Central Public Procurement (CPP) portal www.eprocure.gov.in from till last date of submission https://canarabank.com/english/announcements/ & https://eprocure.gov.in
k.	Validity of the offer	The offer shall remain open for acceptance till 120 days from the date of opening.

2. Generally, the routine works of the Bank are awarded/procurements are made by calling competitive tenders/quotations from the empanelled contractors/ suppliers and in case of emergent works/ works of small magnitude, the Bank may opt to award the work/procure supply from any of the empanelled agencies, depending on the exigencies of the work on nomination basis and also has the right for open tendering process for any particular work, depending on the nature & magnitude of the work.
3. 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 prequalification criteria shall be furnished along with the application form. In this regard, copies of the work orders and completion certificates and or such other documents shall be submitted. Incomplete applications or applications without proper proofs for establishing their credentials will be liable for rejection and no correspondence will be entertained in this regard.
6. The authorized person of the firm/ company shall sign in all the pages of the application with seal of the company/ firm.
7. The empanelment will be made for a specific category depending on the credentials submitted. However, the applicant empanelled in higher category shall be eligible for works in the lower category.
8. All doubts regarding the empanelment shall be clarified during pre-bid meeting and any requests for rectifying any lacunae/deficiency in the bid or supporting documents not submitted shall not be entertained and bank shall not take / allow additional documents after submission / acceptance of tender bid document.

9. The evaluation will be based on the experience, reputation, empanelment with other Banks, PSUs, Govt institutions, manpower & logistical support of the applicant, their financial capabilities, quality consciousness, etc and if found necessary may also include inspecting the works undertaken by them for which, necessary co-ordination shall be made by them. Based on the details furnished and inspection of works, eligibility criteria, the applicants 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/mail.
10. If the 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. The Applicants must have their office in the geographical jurisdiction of the State of Jharkhand.
12. The empanelment shall be valid for a period of three years w.ef 01.04.2023 i.e till 31.03.2026 subject to performance review every year.
13. Applications received after the due date and time are liable for rejections.
14. Penalty Clause:-

	Nature of default	Penalty(In Rs)
a.	Failure of vendor to install CCTV/SAS/FAS at allotted sites within 02 days from date of award of work	Rs 100/-per day
b.	Delay in attending to branch complaint (>24 hrs in urban/semi-urban areas & >48 hrs in rural areas)	Rs 100/-per day
c.	Any delay beyond 72 hours	Rs 500 per day
d.	CCTV Footage found less than 90 days /180 days(in branches with Safe Deposit Lockers-SDLs)	Rs. 500/- per instance

e.	AMC of any allotted branch not attended in a particular quarter	Penalty of the amount equivalent to the AMC amount of a quarter
f.	AMC of allotted branch not attended for 02 consecutive quarters	Withdrawal of the branch from AMC allotment list of the vendor and allotment to any other service provider
h.	Non-Adherence of any other contractual obligations, unless and until bank is informed in advance and permission in written is obtained from Bank.	Rs. 500/-per instance
i.	Any breach of contractual obligations of serious nature Or	Rs. 1000/- per instance
	Non-responsiveness to CO's directions under the ambit of the Contractual T & C	
j.	Highly serious violations of the Contractual obligations as well as repetition of any violation as specified above.	Withdrawal of all work awarded without any notice period / de-empanelment with forfeiture of PGs / recommending for black-listing with IBA.
k.	Any other aspects specified in the RFP related to Penalty	Penal action as per the clause referred

15. Sufficient security equipment stock has to be held in the office of the service provider situated in Jharkhand to enable them to install CCTV/Burglar Alarm/Fire Alarm etc. within 2 working days. If this clause is not adhered and there is any delay caused due to non-maintenance of stock in office based in Jharkhand, the vendor shall be barred from applying for any work under CO : Ranchi or may even be de-empanelled.

16. The security equipment service providers shall maintain on their

payroll such number of technicians required so as to give the Bank the requisite service at the stipulated time. If the vendor fails to do so , the Bank reserves the right to cancel any / all the orders awarded to the vendor and /or de-empanel the vendor.

17. Circle Office Ranchi has jurisdiction over all branches , ATMs and administrative offices in the state of Jharkhand including three (03) presently functioning Regional Offices at Ranchi, Jamshedpur & Dhanbad and one (01) to be opened shortly at Hazaribagh. Separate panel of security equipment service providers will be maintained for each Regional Office and vendors should clearly list their preference for which they should be considered . This shall be dependent upon their sales & service network, staff location and availability , proximity to their Jharkhand office etc. Duly deliberated decision of the Bank regarding the allotment shall be final and no further representation in this regard shall be entertained.
18. A list of approved rates shall be maintained by the Bank by taking L-1 rates of all the equipment components for any urgent/immediate work. Bank can also award higher value works on the basis of sealed cover quotation/limited/Open Tender.
19. The present empanelment is mainly for works for value upto the limits mentioned in respective categories. In case of any high value / other works, Bank may undertake the works by project specific pre-qualification exercise.
20. Canara Bank reserves its right to reject any / or all the applications without assigning any reasons whatsoever. In this regard, no telephonic query or any letter/ petition will be entertained.
21. (a) Application Format for Empanelment be enclosed in an envelope titled "Technical Bid".
(b) The second envelope shall contain the "Financial Bid" and shall be sealed by the vendor and shall only be opened in the presence of the applicants /their representatives, date and time of which shall be informed to them telephonically / mail , if the vendor is found technically qualified.
(c) Both the above envelopes shall then be enclosed in third envelope and shall be superscribed " Application for Empanelment for -----
----- (clearly specify applying for which security equipment viz.

CCTV/Security Alarm/Fire Alarm/Biometric Device/Fire
Extinguisher/Autodialler/all systems or few of the items)

22. Applications found with financial bids not sealed/open shall be summarily rejected and shall not be considered for Empanelment.

SCOPE, ELIGIBILITY CRITERIA, COST LIMIT AND RELATED DETAILS

SCOPE OF THE WORKS

1. Supply of Security Gadgets such as Fire Alarm System, Burglar Alarm System, Auto Dialer, Fire Extinguishers, CCTV System “-

The scope of work for Contractors of the Fire detection and alarm System, Burglar Alarm System, Auto Dialer System, Fire Extinguishers and CCTV etc (as applicable) mainly involves all original works, alterations and modifications involving supply, installation, testing and commissioning for Branches /Currency Chests/ATMs/Administrative Offices of our Bank. The suppliers should have minimum experience of 3 years experience in supplying various type of Fire detection and alarm System / Burglar Alarm System /Auto Dialer System / Fire Extinguishers / DVR CCTV system/NVR CCTV System/ equipments with different Capacity to Government Departments / Public Sector Undertaking /Public Sector Banks/ Central Autonomous Bodies / State Autonomous Bodies / Financial Institutions or other reputed firms and large Offices. Also the suppliers should have sufficient staff and satisfactory experience in maintenance of all type of such Security equipment systems as applicable. If Banks require imported Security items then the vendor should have the direct dealership of the products which need to be supplied.

CATEGORIES AND COST LIMIT:-

The Categories & Cost limits are furnished below.

Sl.no	Particulars	Category A	Category B	Category C	Category D	Category E
		Upper limit	Upper limit	Upper limit	Upper limit	Upper limit
1.	CCTV/FAS/ BAS/Fire Extinguishers	30.00 lacs	20.00 lacs	10.00 lacs	5.00 lacs	1.00 lacs

ELIGIBILITY CRITERIA :-

Sl. no	Eligibility criteria	Documents required
1.	The applicant must be empanelled with Govt. organizations, central autonomous bodies, state autonomous bodies PSUs, Govt. Banks etc. The firm should be registered/licensed with appropriate government authority.	Copy of a valid empanelment sanction. Copy of Registration/incorporation certificate. Copy of license.
2.	The applicant must have experience in related works of at least 3 years as on 31.03.2023.	Copy of work orders prior to not earlier than 3 years from 31.03.2023.

3.	<p>The applicant must have carried out following cost of works during the last 3 years as on 31.03.2023.</p> <p>a. One work/project costing 80% of the category cost limit.</p> <p>b. Two works/projects costing 50% of the category cost limit.</p> <p>c. Three works/projects costing 40% of the category cost limit.</p>	Copies of work orders and work completion certificates.
4.	The applicant must have average annual turnover of at least 30% of the category cost limit for last three financial years i.e 20-21 , 21-22 & 22-23.	Copy of CA certificate certifying the average annual turnover for last three financial years i.e. 20-21 , 21-22 & 22-23. Copies of Audited Balance sheet and P/L A/c statement.
5.	The applicant must have a solvency certificate of at least 5 lakhs.	Copy of solvency certificate issued by the applicant's bank.
6.	The applicant should be an assessee of Income Tax and must possess GST Registration.	Copy of PAN card & GSTIN Registration certificate.

Note : Contractors/firms empanelled under Category D & E will be under scrutiny by the bank for 1 year with regard to their workmanship, quality, timeliness and other related parameters. If found satisfactory/favourable they may be upgraded to higher categories in the future empanelment exercises as per their application. If found contrary/unfavourable they may also be removed from the panel list in future.

APPLICATION FORMAT

APPLIED FOR EMPANELMENT OF: (Mention Works)

CATEGORY

Internal :

CLASS (A/B/C/D/E)

:

1. Name of the Applicant :
- Address :
- Telephone No. Office :
- Residence :
- 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)
- III)

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 :

b) GST No :
(furnish copies of Income-tax returns, registration)

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

Sl. No .	Year	Turnover (in lacs)
1	2020-21	
2	2021-22	
3	2022-23	Internal
	Average	

6. Registration with Government / Public Sector / Banks

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

What are your fields of core competence? Mention the fields on preference Basis

- 1)
- 2)
- 3)

7. Details of the qualifying works executed (please mention only such works which qualifies for the category/class for which you have applied)

Sl No	Name of Work	Work executed for (name of the organization with address, concerned office & telephone no)	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)
1								
2			Internal					
3								

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

8. 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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9. 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
	Internal	

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 / annexures.
3. I / We agree that the decision of CANARA BANK in selection of contractors 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 :

SIGNATURE OF THE APPLICANT

Date :

NAME & DESIGNATION

SEAL OF ORGANISATION

Checklist (To be filled by Applicants)

- 1. Have you mentioned the category for which you have applied in the application form? Yes/No
- 2. Have you signed in all the sheets? Yes/No
- 3. Whether copy of PAN/GST Registration copy is enclosed? Yes/No

- 4. Whether enclosed proof for year of establishment? Yes/No
- 5. Whether proof for average annual financial turnover enclosed? Yes/No
- 6. Whether documentary proof for having undertaken the works is enclosed? Yes/No
 If yes, No. of certificates enclosed

PRICE BID FORMAT

(For detailed Technical Specifications ,refer RFP)			
CCTV SYSTEM			
SL. NO.	ITEMS	QTY	RATE PER UNIT
1	NETWORK VIDEO RECORDER-04 CHANNEL WITH 01 SATA HDD PORT AND ONBOARD POE- HIKVISION/DAHUA/EQUIVALENT	1	
2	NETWORK VIDEO RECORDER-04 CHANNEL WITH 01 SATA HDD PORT - HIKVISION/DAHUA/EQUIVALENT	1	
3	NETWORK VIDEO RECORDER-08 CHANNEL WITH 02 SATA HDD PORT- HIKVISION/DAHUA/EQUIVALENT	1	
4	NETWORK VIDEO RECORDER-16 CHANNEL WITH 04 SATA HDD PORT- HIKVISION/DAHUA/EQUIVALENT	1	

5	NETWORK VIDEO RECORDER- 32 CHANNEL WITH 04 SATA HDD PORT- HIKVISION/DAHUA/EQUIVALENT	1	
6	HD DVR-04 CHANNEL WITH 01 SATA HDD PORT- HIKVISION/DAHUA/EQUIVALENT	1	
7	HD DVR-08 CHANNEL WITH 02 SATA HDD PORT- HIKVISION/DAHUA/EQUIVALENT	1	
8	HD DVR-16 CHANNEL WITH 02 SATA HDD PORT- HIKVISION/DAHUA/EQUIVALENT	1	
9	10 TB SURVEILLANCE GRADE HARD DISC	1	
10	8 TB SURVEILLANCE GRADE HARD DISC	1	
11	6 TB SURVEILLANCE GRADE HARD DISC	1	
12	4 TB SURVEILLANCE GRADE HARD DISC	1	
13	2 TB SURVEILLANCE GRADE HARD DISC	1	
14	2 MP BULLET IP IR CAMERA(UL/EN/EU/CE CERTIFIED) WITHOUT MEMORY CARD- HIKVISION/DAHUA/EQUIVALENT	1	
15	2 MP BULLET IP IR CAMERA(UL/EN/EU/CE CERTIFIED) WITH 128 MEMORY CARD- HIKVISION/DAHUA/EQUIVALENT	1	
16	2 MP FIXED DOME IP IR CAMERA(UL/EN/EU/CE CERTIFIED) WITHOUT MEMORY CARD- HIKVISION/DAHUA/EQUIVALENT	1	
17	2 MP FIXED DOME IP IR CAMERA(UL/EN/EU/CE CERTIFIED) WITH 128 MEMORY CARD- HIKVISION/DAHUA/EQUIVALENT Internal	1	
18	2 MP HD FIXED DOME IR CAMERA , WITH WDR (UL/EN/EU/CE CERTIFIED) WITHOUT MEMORY CARD-HIKVISION/DAHUA/EQUIVALENT	1	
19	2 MP HD FIXED DOME IR CAMERA , WITH WDR(UL/EN/EU/CE CERTIFIED) WITH MEMORY CARD-HIKVISION/DAHUA/EQUIVALENT	1	
20	2 MP BULLET HD IR CAMERA(UL/EN/EU/CE CERTIFIED) -HIKVISION/DAHUA/EQUIVALENT	1	
21	2 MP FIXED DOME HD IR CAMERA(UL/EN/EU/CE CERTIFIED) -HIKVISION/DAHUA/EQUIVALENT	1	
22	2 MP PINHOLE IP IR CAMERA (UL/EN/EU/CE CERTIFIED) -HIKVISION/DAHUA/EQUIVALENT	1	
23	PINHOLE CAMERA HOUSING	1	
24	4 PORT POE NETWORK SWITCH TO BE INSTALLED WITH 4 CHL NVR- HIKVISION/DAHUA/EQUIVALENT	1	
25	8 PORT POE NETWORK SWITCH TO BE INSTALLED WITH 8 CHL NVR- HIKVISION/DAHUA/EQUIVALENT	1	
26	16 PORT POE NETWORK SWITCH TO BE INSTALLED WITH 16/32 CHL NVR- HIKVISION/DAHUA/EQUIVALENT	1	

27	24 PORT POE NETWORK SWITCH TO BE INSTALLED WITH 32 CHL NVR- HIKVISION/DAHUA/EQUIVALENT	1	
28	POE INJECTOR		
29	18.5" – LED MONITOR-SAMSUNG/LG/EQUIVALENT	1	
30	22" – LED MONITOR-SAMSUNG/LG/EQUIVALENT	1	
31	24" – LED MONITOR-SAMSUNG/LG/EQUIVALENT	1	
32	32" –LED MONITOR-SAMSUNG/LG/EQUIVALENT	1	
33	SMPS 12 V 5 AMP	1	
34	SMPS 12 V 10 AMP	1	
35	MEMORY CARD 64 GB	1	
36	MEMORY CARD 128 GB	1	
37	MOUSE -WIRED	1	
38	MOUSE -WIRELESS	1	
39	HDMI SPLITTER	1	
40	HDMI SWITCHER 1X2 (1 OUTPUTX 2 INPUTS)	1	
41	VGA SPLITTER	1	
42	VGA SWITCHER 1X2 (1 OUTPUTX 2 INPUTS)	1	
43	RJ45 TO HDMI EXTENDER	PER MTR	
44	HDMI CABLE	(i) 5 MTR, (ii) 10 MTR, (iii) 15 MTR , (iv) 20 MTR	(i) (ii) (iii) (iv)
45	VGA CABLE	(i) 5 MTR, (ii) 10 MTR, (iii) 20 MTR	
46	CAT 6 CABLE	PER MTR	
47	ARMOURED CAT 6 CABLE	PER MTR	
48	RG 6 CABLE	PER MTR	
49	POWER CABLE OF 2 CORE COPPER CONDUCTOR 2 X 1.0 SQ MM	PER MTR	
50	RG 6 (3+1) CABLE	PER MTR	
51	PVC ROUND CONDUIT WHITE COLOUR	PER MTR	
52	PVC FLAT CONDUIT WHITE COLOUR	PER MTR	
53	RACK 4 U WITH LOCK AND FAN FOR 4&8 CHANNEL NVR	1	
54	RACK 6 U WITH LOCK AND FAN FOR 16 &32 CHANNEL NVR	1	
55	SURGE PROTECTOR WITH 6 SOCKETS		
56	INSTALLATION CHARGES, IF ANY		
57	BUYBACK FOR 4 CHANNEL DVR CCTV SYSTEM	All Components installed except HDD	

58	BUYBACK FOR 8 CHANNEL DVR CCTV SYSTEM	All Components installed except HDD	
59	Charges for Extraction of CCTV Footage for providing to law enforcement/internal usage		
60	Any other additional items/accessories		
61	Any other additional items/accessories		
62	Any other additional items/accessories		
63	Comprehensive Annual Maintenance Charges (CAMC) for existing DVR CCTV System		
64	Non-comprehensive Annual Maintenance Charges (AMC) for DVR existing CCTV System		

BURGLAR/SECURITY ALARM SYSTEM			
SL. NO.	ITEMS	QTY	RATE PER UNIT
1	SMART BRANCH SECURITY ALARM CONTROL PANEL WITH KEY PAD (SEPARATE NOT ON BOARD)-PACKAGE ()	1	
2	KEYPAD COMPATIBLE WITH SMART PANEL (OF THE SAME MAKE AS IN SL. NO. 01 above) (For replacements)	1	
3	SMART ATM SECURITY ALARM CONTROL PANEL WITH KEY PAD (SEPARATE NOT ON BOARD)-PACKAGE()	1	
4	KEY PAD COMPATIBLE WITH SMART PANEL (OF THE SAME MAKE AS IN SL. NO.03 above) (For replacements)	1	
5	ZONE EXPANDING MODULE	1	
6	ADD ON PSTN DIALER CUM COMMUNICATOR MODULE	1	
7	ADD ON IP DIALER CUM COMMUNICATOR MODULE	1	
8	ADD ON GSM (GPRS) DIALER CUM COMMUNICATOR MODULE	1	
9	CONVENTIONAL PSTN SPEECH AUTO DIALER compatible to currently installed conventional panels	1	
10	CONVENTIONAL GSM SPEECH AND SMS SPEECH AUTO DIALER compatible to currently installed conventional panels	1	
11	SMART GSM (GPRS) COMMUNICATOR FOR HEALTH MONITORING OF OLD CONVENTIONAL PANELS	1	
12	SMART ETHERNET(IP) COMMUNICATOR FOR HEALTH MONITORING OF OLD CONVENTIONAL PANELS	1	

13	SIM CARD WITH DATA CONNECTION PACKAGE RATE PER YEAR	1	
14	CONVENTIONAL SOUNDERS	1	
15	SOUNDER WITH INBUILT BATTERY BACKUP	1	
16	PIR SENSORS (PET SAFE)	1	
17	PANIC SWITCHES	1	
18	MAGNETIC CONTACT	1	
19	VIBRATION SENSOR	1	
20	SHUTTER SENSOR	1	
21	CONVENTIONAL BRANCH BURGLAR ALARM CONTROL PANEL WITH SPEECH AUTODIALLER AS A PACKAGE	1	
22	Any other additional items/accessories		
23	Any other additional items/accessories		
24	Any other additional items/accessories		
25	Comprehensive Annual Maintenance Charges (CAMC) for existing Burglar Alarm System		
26	Non-comprehensive Annual Maintenance Charges (AMC) for existing Burglar Alarm System		

FIRE ALARM SYSTEM			
SL. NO.	ITEMS	QTY	RATE PER UNIT
1	SMART BRANCH FIRE ALARM CONTROL PANEL WITH KEY PAD (SEPARATE NOT ON BOARD)- PACKAGE ()	1	
2	KEYPAD COMPATIBLE WITH SMART PANEL (OF THE SAME MAKE AS IN SL. NO. 01 above) (For replacements)	1	
3	SMART ATM FIRE ALARM CONTROL PANEL WITH KEY PAD (SEPARATE NOT ON BOARD)- PACKAGE	1	
4	KEY PAD COMPATIBLE WITH SMART PANEL (OF THE SAME MAKE AS IN SL. NO.03 above) (For replacements)	1	
5	ZONE EXPANDING MODULE	1	
6	ADD ON PSTN DIALER CUM COMMUNICATOR MODULE	1	

7	ADD ON IP DIALER CUM COMMUNICATOR MODULE	1	
8	ADD ON GSM (GPRS) DIALER CUM COMMUNICATOR MODULE	1	
9	CONVENTIONAL PSTN SPEECH AUTO DIALER compatible to currently installed conventional panels	1	
10	CONVENTIONAL GSM SPEECH AND SMS SPEECH AUTO DIALER compatible to currently installed conventional panels	1	
11	SMART GSM (GPRS) COMMUNICATOR FOR HEALTH MONITORING OF OLD CONVENTIONAL PANELS	1	
12	SMART ETHERNET(IP) COMMUNICATOR FOR HEALTH MONITORING OF OLD CONVENTIONAL PANELS	1	
13	SIM CARD WITH DATA CONNECTION PACKAGE RATE PER YEAR	1	
14	CONVENTIONAL SOUNDERS	1	
15	SOUNDER WITH INBUILT BATTERY BACKUP	1	
16	CONVENTIONAL BRANCH FIRE ALARM CONTROL PANEL WITH SPEECH AUTODIALLER AS A PACKAGE	1	
17	OPTICAL SMOKE DETECTOR	1	
18	HEAT DETECTOR	1	
19	RESPONSE INDICATOR(RI) Internal	1	
20	MANUAL CALL POINT (MCP)	1	
21	Any other additional items/accessories		
22	Any other additional items/accessories		
23	Any other additional items/accessories		
24	Comprehensive Annual Maintenance Charges (CAMC) for existing Fire Alarm System		
25	Non-comprehensive Annual Maintenance Charges (AMC) for existing Fire Alarm System		

Annexure (Refer letter NO. GAW:CSC:853:2020 dated 23/12/2020)

RECOMMENDED LIST OF SECURITY / FIRE SAFETY / MISC EQUIPMENTS WITH RECENT SPECIFICATIONS PROPOSED FOR ALL BRANCHES, CC AND ADMIN UNITS

1. CCTV SYSTEMS

NOTE : RECOMMENDED WARRANTY - 2 YEARS (EXCEPT CABLES) & BATTERIES

SL	ITEM	MINIMUM DESIRED SPECIFICATIONS FOR SUPPLY AND INSTALLATION
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
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)
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)
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)
5.	10 TB SURVEILLANCE HARD DISC	UL,WD- AVGP SERIES/ SEAGATE
6.	8 TB SURVEILLANCE HARD DISC	UL,WD- AVGP SERIES/ SEAGATE
7.	6 TB SURVEILLANCE HARD DISC	UL,WD- AVGP SERIES/ SEAGATE



Annexure (Refer letter NO. GAW:CSC:853:2020 dated 23/12/2020)

SL	ITEM	MINIMUM DESIRED SPECIFICATIONS FOR SUPPLY AND INSTALLATION
8.	4 TB SURVEILLANCE HARD DISC	UL,WD- AVGP SERIES/ SEAGATE
9.	2 TB SURVEILLANCE HARD DISC	UL,WD- AVGP SERIES/ SEAGATE
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.
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.
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
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
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
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.
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



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SL	ITEM	MINIMUM DESIRED SPECIFICATIONS FOR SUPPLY AND INSTALLATION
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
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
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
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
21.	24 PORT POE NETWORK SWITCH WITH 32 CHL NVR	ETHERNET PORTS TWO (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
22.	MONITOR- LED 18.5"	18.5" SURVEILLANCE GRADE MONITOR WITH HDMI & VGA INPUT



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SL	ITEM	MINIMUM DESIRED SPECIFICATIONS FOR SUPPLY AND INSTALLATION
23.	CAT 6 CABLE	CAT 6, CORE DIAMETER 0.585MM, 305M CCA, TRANSMISSION DISTANCE UPTO 85M, PER METRE
24.	ARMoured CAT 6 CABLE	ARMoured CAT 6, CORE DIAMETER 0.585MM, 305M CCA, TRANSMISSION DISTANCE UPTO 85M), PER METRE
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
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
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
28.	HD DVR/XVR(PENTA 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/HDTV/ HDCVI/IP/ANALOG), WITH 01 SATA HDD SUPPORT, ONVIF.
29.	HD DVR/XVR(PENTA 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/HDTV/ HDCVI/IP/ANALOG), WITH 02 SATA HDD SUPPORT, ONVIF.
30.	HD DVR/XVR(PENTA 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/HDTV/ HDCVI/IP/ANALOG), WITH 02 SATA HDD SUPPORT, ONVIF.
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 HDTV/ HDCVI/AHD/CVBC), (UL/ EN/EU/CE CERTIFIED)
32.	2 MP HD INFRARED BULLET CAMERAS WITH WDR	MINIMUM 2 MP, WITH GLASS LENSES, WITH WDR AND ALL IN ONE TECHNOLOGY(SUPPORTING HDTV/ HDCVI/AHD/CVBC), (UL/ EN/EU/CE CERTIFIED)



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SL	ITEM	MINIMUM DESIRED SPECIFICATIONS FOR SUPPLY AND INSTALLATION
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.
34.	PINHOLE CAMERA HOUSING	18 SWG METAL BOX (GREY) IN THE SHAPE OF SPEAKER WITH HOLES AND WITH PROVISION TO HOST PINHOLE CAMERA (HD/IP) VIEW FROM ONE OF THE HOLES
35.	RG 6 CO-AXIAL UN ARMoured VIDEO CABLE	RG 6 CO-AXIAL UN ARMoured VIDEO CABLE, PER METER
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
37.	12 V 5 AMP, SMPS POWER SUPPLY FOR CAMERAS	12V 5 AMP
38.	12V ,10 AMP SMPS POWER SUPPLY FOR CAMERAS	12V 10 AMP
39.	12 V 20 AMP, SMPS POWER SUPPLY FOR CAMERAS	12V 20 AMP
40.	PVC ROUND CONDUIT WHITE COLOUR	PVC ROUND CONDUIT WHITE COLOUR, PER METRE
41.	PVC FLAT CONDUIT WHITE COLOUR	PVC FLAT CONDUIT WHITE COLOUR, PER METRE
42.	WIRELESS MOUSE	WIRELESS MOUSE
43.	RJ45 TO HDMI EXTENDER(ONLY 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.
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.



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SL	ITEM	MINIMUM DESIRED SPECIFICATIONS FOR SUPPLY AND INSTALLATION
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.
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 ENABLES PROVIDING POWER WITH 802.3AF ,PD SUPPORTS POWER CLASSIFICATION, AUTO-DETERMINE THE NECESSARY POWER REQUIREMENTS HIGH SAFETY WITH SHORT CIRCUIT PROTECTION PLUG & PLAY INSTALLATION, REQUIRES NO CONFIGURATION, EXTERNAL 48VDC POWER SUPPLY
47.	HDMI SPLITTER	FOR CONNECTING TWO MONITORS FROM NVR/XVR
48.	VGA SPLITTER	FOR CONNECTING TWO MONITORS FROM NVR/XVR
49.	HDMI SWITCHER 1X2(1 OUTPUTX02 INPUTS)	FOR CONNECTING TWO NVRS/XVRS TO SINGLE MONITOR
50.	VGA SWITCHER 1X2(1 OUTPUTX02 INPUTS)	FOR CONNECTING TWO NVRS/XVRS TO SINGLE MONITOR
51.	64 GB MICRO SD CARD	64 GB
52.	128 GB MICRO SD CARD	128 GB
53.	SURGE PROTECTOR WITH 6 SOCKETS (IN LIGHTNING EFFECTED/ HEAVY POWER FLUCTUATIONS AREAS)	6 SOCKETS
54.	WIRED MOUSE	WIRED MOUSE



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2. ALARM SYSTEMS**NOTE : RECOMMENDED WARRANTY - 2 YEARS (EXCEPT CABLES) & BATTERIES**

SN	ITEM	MINIMUM DESIRED SPECIFICATIONS FOR SUPPLY AND INSTALLATION
1.	SMART BRANCH SECURITY AND FIRE ALARM CONTROL PANEL WITH KEY PAD(SEPARATE NOT ON BOARD)- PACKAGE	SUPPORTING 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 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.
2.	KEY PAD COMPATIBLE WITH SMART PANEL (OF THE SAME MAKE AS IN SL NO: 01 above)	FOR REPLACEMENTS



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SN	ITEM	MINIMUM DESIRED SPECIFICATIONS FOR SUPPLY AND INSTALLATION
3.	SMART ATM SECURITY AND FIRE ALARM CONTROL PANEL WITH KEY PAD(SEPARATE NOT ON BOARD) PACKAGE	SUPPORTING BOTH SECURITY AND FIRE ALARM DETECTORS - UL/ EN / ETDC/ CE CERTIFIED 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.
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
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
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
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



Annexure (Refer letter NO. GAW:CSC:853:2020 dated 23/12/2020)

SN	ITEM	MINIMUM DESIRED SPECIFICATIONS FOR SUPPLY AND INSTALLATION
3.	SMART ATM SECURITY AND FIRE ALARM CONTROL PANEL WITH KEY PAD(SEPARATE NOT ON BOARD) PACKAGE	SUPPORTING BOTH SECURITY AND FIRE ALARM DETECTORS - UL/ EN / ETDC/ CE CERTIFIED 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.
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
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
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
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



Annexure (Refer letter NO. GAW:CSC:853:2020 dated 23/12/2020)

SN	ITEM	MINIMUM DESIRED SPECIFICATIONS FOR SUPPLY AND INSTALLATION
3.	SMART ATM SECURITY AND FIRE ALARM CONTROL PANEL WITH KEY PAD(SEPARATE NOT ON BOARD) PACKAGE	SUPPORTING BOTH SECURITY AND FIRE ALARM DETECTORS - UL/ EN / ETDC/ CE CERTIFIED 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.
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
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
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
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



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SN	ITEM	MINIMUM DESIRED SPECIFICATIONS FOR SUPPLY AND INSTALLATION
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 .
10.	CONVENTIONAL GSM SPEECH AND SMS AUTO DIALER COMPATIBLE TO CURRENTLY INSTALLED CONVENTIONAL PANELS	GSM BASED, 03 VOICE MESSAGES, MIN 10 TELEPHONE NUMBERS
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
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
13.	SIM CARD WITH DATA CONNECTION PACKAGE RATE PER YEAR	WITH MIN 1GB DATA, 100 SMS PER MONTH
14.	SMART STANDALONE FIRE ALARM CONTROL PANEL WITH ONBOARD KEYPAD	2 ZONE SMART FIRE PANEL WITH CAPACITY OF 20 SMOKE DETECTORS PER ZONE. UL/ EN / ETDC/ CE CERTIFIED METAL CASE WITH PSTN AUTO DIALER. WIFI CLOUD CONNECTIVITY ON ANDROID APP. GSM/IP COMPATIBILITY FOR CONNECTIVITY TO THIRD PARTY CMS IN FUTURE THROUGH OPEN SOURCE PROTOCOLS. OPERATING VOLTAGE 180-240 V WITH VISUAL ZONE INDICATORS MAINS, BATTERY, SHOWING FIRE , OPEN, SHORT FAULT, RESET , ZONE AND HOOTER TESTS, ETC, PUSH BUTTONS TO DISABLE AUDIO ALARM WITH BATTERY BACKUP.
15.	CONVENTIONAL	4WIRED CONVENTIONAL SOUNDERS (02 FOR POWER & 02 FOR



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SN	ITEM	MINIMUM DESIRED SPECIFICATIONS FOR SUPPLY AND INSTALLATION
	SOUNDERS	TAMPER), MIN 120 DB
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
18.	PANIC SWITCHES	MICRO SWITCH TECHNOLOGY, AUTO RESET BUTTON, INBUILT TAMPER, STURDY ABS HOUSING WITH STAINLESS STEEL FINISH COVER PLATE
19.	MAGNETIC CONTACT	METAL MAGNETIC CONTACT SMALL
20.	VIBRATION SENSOR	WITH ADJUSTABLE SENSITIVITY SENSOR
21.	TEMPERATURE SENSOR	SECUIRCO/ EQUIVALENT
22.	SHUTTER SENSOR	SECUIRCO/ EQUIVALENT
23.	UV FLAME DETECTOR	ULTRAVIOLET FLAME DETECTOR
24.	LDR SENSOR	TO BE USED INSIDE STRONG ROOM
25.	GLASS BREAK SENSOR	GLASS BREAK SENSOR
26.	OPTICAL SMOKE DETECTOR	DUST PROOF, MOTH PROOF
27.	HEAT DETECTOR	CONVENTIONAL HEAT DETECTOR WITH WITH 360 DEGREES DIRECTION WITH MIN 25 DEGREES TRIGGER
28.	RATE OF RISE HEAT DETECTOR	ROR WITH RAPID RISE ELEMENT OF TEMPERATURE OF 6.7 DEGREES TO 8.3DEGREES CENTIGRADE INCREASE PER MINUTE
29.	RESPONSE INDICATOR	FOR ANY FIRE DETECTOR
30.	MCP	FOR FIRE ALARM,
31.	CONVENTIONAL BRANCH BURGLAR ALARM CONTROL PANEL WITH SPEECH AUTO DIALER AS A	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.



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SN	ITEM	MINIMUM DESIRED SPECIFICATIONS FOR SUPPLY AND INSTALLATION
	PACKAGE	
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 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. 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
33.	REPEATER PANEL	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.
34.	ADDRESSABLE OPTICAL SMOKE DETECTOR	ADDRESSABLE OPTICAL SMOKE DETECTOR WITH ALARM LED'S AND MOUNTING BASE. APPROVALS- LPCB, VDS,UL
35.	ADDRESSABLE HEAT DETECTOR	ADDRESSABLE OPTICAL HEAT DETECTOR WITH ALARM LED'S AND MOUNTING BASE. APPROVALS- LPCB, VDS,UL
36.	ADDRESSABLE SOUNDER/ FLASHER	ADDRESSABLE HOOTER CUM STROBE. APPROVALS- LPCB
37.	ADDRESSABLE INPUT/ OUTPUT MODULES	I/O UNIT PROVIDES SUPERVISION OF ONE OR MORE NORMALLY OPEN CONTACTS CONNECTED TO A SINGLE PAIR OF CABLES AND A SET OF CHANGEOVER RELAY OUTPUT CONTACTS. APPROVALS- LPCB,VDS
38.	ADDRESSABLE MANUAL CALL POINT	ADDRESSABLE MANUAL CALL POINT WITH KEY FOR RST PURPOSE, APPROVALS- VNIPO (ALL RUSSION INSTITUTE FOR FIRE PROTECTION CERTIFICATE)



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SN	ITEM	MINIMUM DESIRED SPECIFICATIONS FOR SUPPLY AND INSTALLATION
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
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
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
42.	BATTERY	12V 7 AH
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
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
47.	ARMORED CABLE 2 CORE 1.5 SQ MM, ISI MARKED	FOR FIRE DETECTORS
48.	CABLE OF 2 CORE COPPER SHIELDED 2 X 1.0 SQ MM, FLEXIBLE WIRE. (NOT REGULAR OR ARMOURD)	FOR SIREN AND SWITCHES OF INTRUSION ALARM



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SN	ITEM	MINIMUM DESIRED SPECIFICATIONS FOR SUPPLY AND INSTALLATION
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
50.	PVC ROUND CONDUIT WHITE COLOUR	
51.	BLACK CONDUIT	
52.	SURGE PROTECTOR WITH 6 SOCKETS (IN LIGHTNING EFFECTED/ HEAVY POWER FLUCTUATIONS AREAS)	6 SOCKETS



Annexure (Refer letter NO. GAW:CSC:853:2020 dated 23/12/2020)

3. TRTL SAFES

SL	ITEM	MINIMUM DESIRED SPECIFICATIONS FOR SUPPLY AND INSTALLATION
1.	"TRTL BB" Safe	Safe having torch and tool resisting capacity on all six sides for 15 minutes each, Electronic / Biometric login for key holders, Duress - Send alarm to user in distress situation, Automatic relocking device (on attack on the lock). In built Alarm generating capacities, 8 Lever High Precision Locks, Alert system in case of any burglary attempt. Motion sensor light inside TRTL.
2.	"TRTL A" Safe	Safe having torch and tool resisting capacity on all six sides for 30 minutes each, Electronic / Biometric login for key holders, Duress - Send alarm to user in distress situation, Automatic relocking device (on attack on the lock). In built Alarm generating capacities, 8 Lever High Precision Locks, Alert system in case of any burglary attempt. Motion sensor light inside TRTL.

