
 Government eProcurement System		Government eProcurement System	
		Tender Details	
		Date : 15-May-2025 05:03 PM	
		 Print	
Basic Details			
Organisation Chain	SECURITY PRINTING AND MINTING CORPORATION OF INDIA-SPMCIL INDIA GOVT MINT HYDERABAD (TEL) Purchase Deptt -SPMCIL		
Tender Reference Number	6000019262/IT		
Tender ID	2025_SPMCI_235365_3	Withdrawal Allowed	Yes
Tender Type	Open Tender	Form of contract	Turn-key
Tender Category	Goods	No. of Covers	2
General Technical Evaluation Allowed	No	ItemWise Technical Evaluation Allowed	No
Payment Mode	Offline	Is Multi Currency Allowed For BOQ	No
Is Multi Currency Allowed For Fee	No	Allow Two Stage Bidding	No

Payment Instruments			Cover Details, No. Of Covers - 2			
Offline	S.No	Instrument Type	Cover No	Cover	Document Type	Description
	1	Direct Credit	1	Fee/PreQual/Technical	.pdf	Duly filled stamped and signed copy of section X and XII of tender document
	2	Demand Draft				Duly filled stamped and signed copy of tender document
	3	Bankers Cheque				Documents in support of Eligibility criteria as per section IX of the tender document
	4	NEFT				Signed stamped copy of GIT and GCC as per Section II and IV of the tender document
	5	R-T-G-S				Acceptance of Scope of work as per Section VII and delivery schedule as



**Government
eProcurement
System**

			per Section VI
2	Finance	.xls	Duly filled signed and stamped price schedule as per Section XI of the tender document
		.pdf	Duly filled , signed and stamped Price schedule as per Section XI of the tender document

Tender Fee Details, [Total Fee in ₹ * - 0.00]

Tender Fee in ₹	0.00	
Fee Payable To	Nil	Fee Payable At Nil
Tender Fee Exemption Allowed	No	

EMD Fee Details

EMD Amount in ₹	60,000	EMD Exemption Allowed	Yes
EMD Fee Type	fixed	EMD Percentage	NA
EMD Payable To	India Government Mint, Hyderabad (A unit of SPMCIL)	EMD Payable At	India Government Mint, Hyderabad (A unit of SPMCIL)

[Click to view modification history](#)

Work /Item(s)

Title	Supply, Installation, Commissioning and Testing for Upgradation of existing CCTV surveillance system				
Work Description	Supply, iNstallation, Commissioning and Testing for Upgradation of existing CCTV surveillance system				
Pre Qualification Details	Please refer Tender documents.				
Independent External Monitor/Remarks	NA				
Show Tender Value in Public Domain	No				
Tender Value in ₹	30,00,000	Product Category	Electronics Equipment	Sub category	NA
Contract Type	Tender	Bid Validity(Days)	120	Period Of Work (Days)	90
Location	India Government Mint, Hyderabad	Pincode	500051	Pre Bid Meeting Place	India Government Mint, Hyderabad
Pre Bid Meeting Address	India Government Mint, Hyderabad, IDA Phase-II, Cherlapally, Hyderabad-500051	Pre Bid Meeting Date	28-May-2025 03:00 PM	Bid Opening Place	India Government Mint, Hyderabad
Should Allow NDA Tender	No	Allow Preferential Bidder	No		



Government eProcurement System

Critical Dates			
Publish Date	16-May-2025 09:00 AM	Bid Opening Date	16-Jun-2025 10:00 AM
Document Download / Sale Start Date	16-May-2025 09:30 AM	Document Download / Sale End Date	14-Jun-2025 05:00 PM
Clarification Start Date	16-May-2025 09:30 AM	Clarification End Date	26-May-2025 04:00 PM
Bid Submission Start Date	16-May-2025 09:30 AM	Bid Submission End Date	14-Jun-2025 05:00 PM

Tender Documents

NIT Document	S.No	Document Name	Description	Document Size (in KB)	
	1	Tendernotice_1.pdf	Tender Document for Upgradation of CCTV system of IGMH	1514.90	
Work Item Documents	S.No	Document Type	Document Name	Description	Document Size (in KB)
	1	Tender Documents	Tender6000019262ofCCTV.pdf	Tender Document for Upgradation of existing CCTV system	1497.17

Bid Openers List

S.No	Bid Opener Login Id	Bid Opener Name	Certificate Name
1.	sudesh.panwar@spmcl.com	Sudesh Panwar	SUDESH PANWAR
2.	siddharth.mannava@spmcl.com	SIDHAARDHA MANNAVA	Sidhaardha Mannava
3.	v.kirankumar@spmcl.com	V. Kiran Kumar	KIRAN KUMAR VUPPALA

GeMARPTS Details

GeMARPTS ID	USK5E7KOIB40
Description	Supply, Installation, Testing and Commissioning for Upgradation of Existing CCTV System
Report Initiated On	14-May-2025
Valid Until	13-Jun-2025


Tender Properties

Auto Tendering Process allowed	No	Show Technical bid status	Yes
Show Finance bid status	Yes	Stage to disclose Bid Details in Public Domain	Technical Bid Opening
BoQ Comparative Chart model	NIL	BoQ Comparative chart decimal places	2
BoQ Comparative Chart Rank Type	NIL	Form Based BoQ	No

TIA Undertaking

S.No	Undertaking to Order	Tender complying with Order	Reason for non compliance of Order
1	TIA UNDERTAKING GEM	Agree	
2	PPP-MII Order 2017	Agree	
3	MSEs Order 2012	Agree	

Tender Inviting Authority

 Name	V KIRAN KUMAR- JGM(M)
Address	India Government Mint, Hyderabad
Tender Creator Details	
Created By	Putti Devendranath
Designation	JOA
Created Date	15-May-2025 03:05 PM



**India Government Mint,
IDA, Phase-II,
Cherlapally,(R.R district), Hyderabad
Pin-500051 India
Phone. No: 91-040-27268300 (EXT:117/122)
Fax No: 040-27262951 CIN: U22213DL2006GOI144763
E-Mail: igm.hyderabad@spmCIL.com
Web: <http://igmhyderabad.spmCIL.com>
GSTIN: 36AAJCS6111J2Z8**

Not Transferable

Security Classification: Non-Security

**TENDER DOCUMENT FOR PURCHASE OF: SUPPLY, INSTALLATION, TESTING &
COMMISSIONING FOR UPGRADATION OF EXISTING CCTV SURVEILLANCE SYSTEM
FOR IGMH**

Tender Number: 6000019262 /IT, Dated: 14.05.2025

This Tender Document Contains 46 Pages.

Tender Document is issued to:

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Details of Contact person in SPMCIL regarding this tender:

**Name V KIRAN KUMAR
Designation Jt. General Manager (M&M)
Address IGMH (India Government Mint, Hyderabad) India
Email V.KIRANKUMAR@SPMCIL.COM
Phone 040-27268300 (EXT: 122)
Fax**

Disclaimer

The information contained in this Bid Document or subsequently provided to Bidder(s), whether verbally or in documentary or any other form by or on behalf of the Security Printing and Minting Corporation Limited (hereafter referred as the "Purchaser") or any of its employees or associated agencies, is provided to Bidder(s) on the terms and conditions set out in this Bid Document and such other terms and conditions subject to which such information is provided.

This Bid Document is not an agreement and is neither an offer nor invitation by the Purchaser to the prospective Bidder(s) or any other party hereunder. The purpose of this Bid Document is to provide the Bidder(s) with information to assist them in the formulation of their proposal submission. This Bid document does not purport to contain all the information Bidder(s) may require. This Bid document may not be appropriate for all bidders, and it is not possible for the Purchaser to consider particular needs of each Bidder. Each Bidder should conduct its own investigation and analysis, and should check the accuracy, reliability, and completeness of the information in this document and obtain independent advice from appropriate sources.

Information provided in this Bid Document to the Bidder(s) is on a wide range of matters, some of which may depend upon interpretation of law. The information given is not intended to be an exhaustive account of statutory requirements and should not be regarded as a complete or authoritative statement of law. The Purchaser, its employees and other associated agencies accept no responsibility for the accuracy or otherwise for any interpretation or opinion on law expressed herein.

This Bid document and ensuing bids; communications and Contracts would alone determine the legal and commercial relationship between the bidders/ contractors and the Purchaser. No other Government or Purchaser's document/ guidelines/Manuals including its Procurement Manual (which are for internal and official use of its officers), have any locus standi in such a relationship. These documents/guidelines/ Manuals therefore should not be cited or referred in any legal or dispute resolution or grievance redressal proceedings.

The Purchaser, its employees and other associated agencies make no representation or warranty and shall have no liability to any person, including any Bidder under any law, statute, rules or regulations or tort, principles of restitution or unjust enrichment or otherwise for any loss, damages, cost or expense which may arise from or be incurred or suffered on account of anything contained in this Bid Document or otherwise, including the accuracy, adequacy, correctness, completeness or reliability of the Bid Document and any assessment, assumption, statement or information contained therein or deemed to form part of this Bid Document or arising in any way for participation in this Bid Stage.

The Purchaser, its employees and other associated agencies also accept no liability of any nature whether resulting from negligence or otherwise howsoever caused arising from reliance of any Bidder(s) upon the statements contained in this Bid Document.

The Purchaser may in its absolute discretion, but without being under any obligation to do so, update, amend or supplement the information, assessment or assumptions contained in this Bid Document.

The issue of this Bid Document does not imply that the Purchaser is bound to select Bidder(s) and the Purchaser reserves the right to reject all or any of the Bidders or Bids or to decide to drop the procurement process at any stage without assigning any reason.

The Bidder(s) shall bear all its costs associated with or relating to the preparation and submission of their Bids including but not limited to preparation, copying, postage, delivery fees, expenses associated with any submission of samples, demonstrations or presentations which may be required by the Purchaser or any other costs incurred in connection with or relating to their Bids. All such costs and expenses will remain with the Bidder(s) and the Purchaser shall not be liable in



any manner whatsoever for the same or for any other costs or other expenses incurred by a Bidder(s) in preparation or submission of the Bid, regardless of the conduct or outcome of the Bidding Process.

This disclaimer forms an integral part of the Bid document and shall supplement but not supplant the provision of the Bid Document.

Section I: Notice Inviting Tender (NIT)

6000019262 /IT	14.05.2025
(SPMCIL's Tender SI No.)	(Date)

1. Sealed tenders are invited from eligible and qualified tenderers for supply of the following:

Schd No.	Brief Description of Goods/ Services	Quantity (with unit)	Earnest Money (in Rs.)	Remarks
01.	SITC for upgrading existing CCTV System	1 AU	60000.00 INR SIXTY THOUSAND ONLY	BIDDERS SHOULD PARTICIPATE ON CPP PORTAL ONLY

Type of Tender (Two Bid/ PQB/ EOI/ RC/ Development/ Indigenization/ Disposal of Scrap/ Security Item etc.)	TWO-BID National Competitive Bid
Security Classification	NON- SECURITY ITEM
Authority in whose favour all tender related financial instruments (FD, DD, Banker's cheque etc) are to be made	India Government Mint, Hyderabad (A Unit of SPMCIL)
All Financial Instruments to be payable at	Hyderabad
Dates and place of issue of tender documents:	As per CPP PORTAL
Place of Pre-bid Conference	India Government Mint, Hyderabad, IDA Phase-II, Cherlapally, Hyderabad-500 051.
Time and date of Pre-bid Conference:	On 28.05.2025 at 15:00:00 HOURS
Closing date and time for receipt of tenders	As per CPP PORTAL
Place of receipt of tenders	ON CPP PORTAL
Time and date of opening of tenders for Technical Bid. Place, Time, and date of Opening of Price (Financial) bid would be intimated later on.	As per CPP PORTAL
Place of opening of tenders	ON CPP PORTAL at INDIA GOVERNMENT MINT, HYDERABAD
Nominated Person/ Designation to Receive Bulky Tenders (Clause 21.1 of GIT)	V KIRAN KUMAR Jt. General Manager (M&M)
Officer to be contacted for clarifications/ help:	V KIRAN KUMAR
Name and Contact Details of Independent Monitor(s) for Integrity	V KIRAN KUMAR PURCHASE.IGMH@SPMCIL.COM
Pact (please refer to Clause 44.3 of GIT) for this Tender :	

2. Eligibility to participate as per Government of India's Public Procurement (Preference to Make in India) Order 2017 (as amended/ revised) and Ministry of Finance, Department of Expenditure, Public Procurement Division's Orders (Public Procurement 1, 2 and 3) F.No.6/18/2019-PPD dated 23rd/ 24th July 2020 (or any further amendments thereof) regarding eligibility of bidders from neighbouring countries shall apply to this tender.

3. Please note that SPMCIL reserves its right to grant Purchase preferences in accordance with Government of India's Public Procurement (Preference to Make in India) Order 2017 (as amended/ revised) and Public Procurement Policy for Micro and Small Enterprises (MSEs) Amendment Order, 2018 (as amended/ revised).
4. Interested tenderers may obtain further information about this requirement from the above office selling the documents. They may also visit our website mentioned above for further details.
5. Tenderer may also download the tender documents from the web site mentioned above and submit its tender by utilizing the downloaded document (Through e-tendering portal i.e. CPPP (E-tendering) <https://etenders.gov.in/eprocure/app>, the bidder must not make any changes to the contents of the documents, except for filling the required information. A certificate to this effect must be submitted by the bidder in the Tender Form (Section X).
6. Bidders may upload their bids through e-tendering portal i.e. CPPP (E-tendering) <https://etenders.gov.in/eprocure/app>, bidders must upload their bids along with scanned copies as required enclosures (including proof of cost of EMD as applicable) as per instructions given in this regard. Original copy of such scanned uploaded EMD, must reach in physical form within the date and place as provided in such instructions, otherwise their uploaded bid, would be declared as unresponsive.
7. In the event of any of the above-mentioned dates being declared as a holiday/ closed day for the purchase organisation, the tenders will be sold/ received/ opened on the next working day at the appointed time.
8. The tender documents are not transferable.
9. The bidder, their affiliates, or subsidiaries - including subcontractors or suppliers for any part of the contract – should not stand declared ineligible/ blacklisted/ banned/ debarred by any Government Agency anywhere in the world, for participating in its tenders, under that country's laws or official regulations. A declaration to this effect shall be submitted by the bidder in the Tender Form (Section X).
10. EMD amount mentioned in Section VI – List of Requirements shall be furnished in one of the following forms: a) Account Payee Demand Draft in acceptable form, otherwise the tender will not be accepted in any case. The demand draft shall be drawn on any scheduled commercial bank in India, in favour of Account and place of payment specified in the Para 1 above.
11. As per the amendments to Companies Act 2013, companies are required to make certain disclosure pertaining to vendors registered under Micro, Small and Medium Enterprises Development Act 2006 (MSMED Act 2006). If your firm/ company is registered under MSMED Act 2006, please attach a copy of the registration certificate.
12. Any security breach by the contractor, will lead to: a) Termination of contract. b) Payment of damages.
13. As per provisions contained in M/o Finance, Dept. of Expenditure O.M. No.1(2)(1)/2016-MA dt.10th March 2016, relaxation shall be given of prior turnover and prior experience with respect of Micro & Small Enterprises (MSEs) subject to meeting of quality and technical specifications.

14. Traders/resellers/distributor/authorized agents will not be considered for availing benefits under PP Policy 2012 for MSEs as per MSE guidelines by MOMSME.
15. The guidelines issued vide office Memorandum No. DPE/7(4)/2007-Fin. Dated 06.12.2012 issued by the Ministry of Heavy Industries & Public Enterprises, D.O.No.21(1)/2011-MA dated 25.04.2012 and letter F.No.21(8)/2018-MA dated 09.11.2018 issued by the Ministry of Micro, Small & Medium Enterprises and letter No. NSIC/HO/BD/66/PPP/1415 dated: 23.01.2015 issued by National Small Industries Corporation Ltd as follows: #Micro & Small Enterprises are eligible to get the benefits under Public Procurement Policy for Micro & Small Enterprises (MSEs) Order 2012” as notified by the Government of India, Ministry of Micro, Small & Medium Enterprises, New Delhi vide Gazette Notification dated 26.03.2012 (Traders are exempted from purview of this policy).The major benefits allowed are as under:
- Issue of Tender Sets free of cost.
 - Exemption from payment of Earnest Money Deposit (EMD).
 - In Tender participating MSEs quoting price within price band of L1 + 15% shall also be allowed to supply at least 25% of requirement by bringing down their price to L1 price where L1 is non-MSEs. Further out of this requirement of at least 25% procurement from MSEs, 4% is earmarked for units owned by Schedule Caste/Schedule Tribes and 3% reservation for Women owned MESs. In case no SC/ST and Women owned MSE is a responsive tenderer then whole procurement shall be made from responsive MSE fulfilling the above mentioned conditions.
- Note 1: Firm must submit a valid UDYAM registration certificate (which clearly indicates the status of firm) in order to be eligible for MSEs benefits.
- Note 2: As the procurement is not split able. Therefore, the above clause (c) would imply that participating MSEs registered with MSME under single point registration scheme quoting price within price band of L1 + 15% shall be allowed to bring down their price to L1 price where L1 is non-MSEs. On acceptance of the above, the total job shall be awarded to the MSE firm.
16. The tender document includes:-
- 1) Section I- Notice Inviting Tender (NIT)
 - 2) Section II - General Instructions to Tenderers (GIT)
 - 3) Section III - Special Instructions to Tenderers (SIT)
 - 4) Section IV - General Conditions of Contract (GCC)
 - 5) Section V - Special Conditions of Contract (SCC)
 - 6) Section VI - List of Requirements
 - 7) Section VII - Technical Specifications
 - 8) Section VIII - Quality Control Requirements
 - 9) Section IX - Qualification/ Eligibility Criteria
 - 10) Section X - Tender Form
 - 11) Section XI - Price Schedule
 - 12) Section XII - Vendor Details
 - 13) Section XIII - Bank Guarantee Form for EMD
 - 14) Section XIV - Manufacturer's Authorization Form
 - 15) Section XV - Bank Guarantee Form for Performance Security
 - 16) Section XVI - Contract Form
 - 17) Section XVII - Letter of Authority for attending a Bid Opening
 - 18) Section XVIII - Proforma of Bills for Payments
 - 19) Section XIX - NEFT Mandate



Note: For “SPMCIL” be read as ‘India Government Mint, Hyderabad’

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(V. Kiran Kumar,
Joint General Manager (Materials),
India Government Mint Hyderabad,
IDA Phase-II, Cherlapally,
R.R.District, Telangana- 500 051.
Phone: 040-27268300 (EXT:122/117)
E-mail Id: purchase.igmh@spmCIL.com)

For and on behalf of

Chief General Manager,
India Government Mint, Hyderabad.

Section II: General Instructions to Tenderer (GIT)

Please refer the link <https://spmCIL.com/uploaddocument/GIT3.0.pdf> for the following:

- 1) Part I: General Instructions Applicable to All Types of Tenders
- 2) Part II: Additional General Instructions applicable to Specific Types of Tenders

Section III: Special Instructions to Tenderer (SIT)

The following Special Instructions to Tenderers will apply for this purchase. These special instructions will modify/ substitute/ supplement the corresponding General Instructions to Tenderers (GIT) incorporated in Section II. The corresponding GIT clause numbers have also been indicated in the text below:

In case of any conflict between the provision in the GIT and that in the SIT, the provision contained in the SIT shall prevail.

(Clauses of GIT listed below include a possibility for variation in their provisions through SIT. There could be other clauses in SIT as deemed fit.)

Sr. No.	GIT Clause No.	Topic	SIT Provision
01	3	ELIGIBLE TENDERS	No change
02	3.4	ELIGIBLE GOODS AND SERVICES (ORIGIN OF GOODS)	No change
03	6.1	THE TENDER DOCUMENTS INCLUDES:	No change
04	8	PREBID CONFERENCE	Applicable: All interested bidders may visit the site to understand the site conditions. Pre Bid conference to be held on 28.05.2025 at IGM Hyderabad. Clarifications will be given for the Queries received on or before 26.05.2025. Queries may be sent to the following E-mails: purchase.igmh@spmCIL.com , igm.hyderabad@spmCIL.com .
05	9	TIME LIMIT FOR RECEIVING REQUEST FOR CLARIFICATION OF TENDER DOCUMENTS	No change
06	10.1	THE TECHNICAL BID TO BE SUBMITTED BY TENDERER SHALL CONTAIN THE FOLLOW	No change
07	11.2	TENDER CURRENCY	Supplier is requested to quote price within 2 Decimal place. Quotation with price quote beyond 2 decimal place is ignored.
08	12.1	TENDER PRICES	INR
09	12.2, 33, 36.1	SCHEDULE WISE EVALUATION	Not Applicable
10	12.6	GST DETAILS	No change
11	14	PVC CLAUSE & FORMULA	Not Applicable
12	14.4 TO 14.7	EXCHANGE RATE VARIATION (ERV)	Not Applicable
13	16.2 A) TO C)	DOCUMENTS ESTABLISHING	No change

		TENDERER'S ELIGIBILITY AND QUALIFICATIONS	
14	18.4, 18.5	EARNEST MONEY DEPOSIT (EMD)	No change
15	19	TENDER VALIDITY	Valid for 120 days from the date of opening of Technical Bid
16	20.4	NUMBER OF COPIES OF TENDERS TO BE SUBMITTED	Not Applicable: One set on CPP Portal
17	20.8	TWO BID SYSTEM	No change
18	20.9	E-PROCUREMENT	No change
19	34. AND 35.1	COMPARISON ON CIF DESTINATION BASIS	Not Applicable
20	35.2 TO 35.6	ADDITIONAL FACTORS FOR EVALUATION OF OFFERS AND PREFERENTIAL SCHEMES	Not Applicable
21	43	PARALLEL CONTRACTS	Not Applicable
22	44.1	SERIOUS MISDEMEANOURS	No change
23	44.3	INTEGRITY PACT	Not Applicable
24	45.1	NOTIFICATION OF AWARD	No change
25	50	APPLICABILITY OF ADDITIONAL GIT FOR RATE CONTRACTS	Not Applicable
26	51	APPLICABILITY OF ADDITIONAL GIT FOR PQB TENDERS	Not Applicable
27	52	APPLICABILITY OF ADDITIONAL GIT FOR TENDERS INVOLVING SAMPLES	Not Applicable
28	53	APPLICABILITY OF ADDITIONAL GIT FOR EOI TENDERS	Not Applicable
29	54	APPLICABILITY OF ADDITIONAL GIT FOR TENDERS FOR DISPOSAL OF SCRAP	Not Applicable
30	55	APPLICABILITY OF ADDITIONAL GIT FOR DEVELOPMENT/ INDIGENIZATION TENDER	Not Applicable

Section IV: General Conditions of the Contract (GCC)

Please refer the link <https://spmCIL.com/uploaddocument/GCC/new.pdf> for the following:

- 1) Part I: General Conditions of Contract Applicable to All Types of Tenders
- 2) Part II: Additional General Conditions of Contract applicable to Specific Types of Tenders

Section V: Special Conditions of the Contract (SCC)

The following Special Conditions of Contract (SCC) will apply for this purchase. The corresponding clauses of General Conditions of Contract (GCC) relating to the SCC stipulations have also been incorporated below. These Special Conditions will modify/substitute/ supplement the corresponding (GCC) clauses.

Whenever there is any conflict between the provision in the GCC and that in the SCC, the provision contained in the SCC shall prevail.

(Clauses of GCC listed below include a possibility of variation in their provisions through SCC. There could be other clauses in SCC as deemed fit)

SI No	GCC Clause No.	Topic	SCC Provision
01	1.2	ABBREVIATIONS	No change
02	6.1, 6.3 & 6.5	PERFORMANCE BOND/ SECURITY	No change: 5% of total order value valid for a period of 60 days beyond completion of contractual obligations.
03	8.2	PACKING AND MARKING	No change
04	9	INSPECTION AND QUALITY CONTROL	No change
05	11.2	TRANSPORTATION OF DOMESTIC GOODS	No change
06	12	INSURANCE	No change
07	14.1	INCIDENTAL SERVICES	No change
08	15	DISTRIBUTION OF DESPATCH DOCUMENTS FOR CLEARANCE/ RECEIPT OF GOODS	No change
09	16.2,16.4	WARRANTEE CLAUSE	No change. Warranty applicable for 12 months from the date of Final Acceptance Certificate (FAC) issued by IGMH.
10	19.3	OPTION CLAUSE	Not Applicable
11	20.1	PRICE ADJUSTMENT CLAUSE	Not Applicable
12	21.	TAXES AND DUTIES	No change
13	22	TERMS AND MODE OF PAYMENTS	100% payment will be made within 30 days form he date of issue of Final Acceptance Certificate (FAC).

14	24.1	QUANTUM OF LD	No change: Up to 5% of total order value.
15	25.1	BANK GUARANTEE AND INSURANCE FOR MATERIAL LOANED TO CONTRACTOR	Not Applicable
16	33.1.	RESOLUTION OF DISPUTES	No change
17	36.3.2, 36.3.9	DISPOSAL/ SALE OF SCRAP BY TENDER	Not Applicable

Section VI: List of Requirements

Schedule No.	Brief Description of goods and services (Related Specifications etc. are in Section-VII)	HNS Code	Accounting Unit	Quantity	Amount of Earnest Money (INR)	Place of Delivery for GST purpose
1	SITC for upgrading existing CCTV System		AU	1.000	60000.00INR SIXTY THOUSAND ONLY	India Government Mint, Hyderabad -500051, Telangana, India.

1. **Required Delivery Schedule/Service:** Three months from the date of issuance of Purchase order.

2. **Required Terms of Delivery:** F.O.R India Government Mint, Hyderabad.

3. **Destination:** India Government Mint, Post Box No. 10, H.C.L. Post, I.D.A. Phase- II, Cherlapally, Hyderabad – 500 051. (Telangana)

4. **Earnest Money Deposit:**

The required Earnest Money Deposit for the above tendered items is Rs.60,000/- (Sixty Thousand only) shall be submitted scanned copy along with e-tender in Techno-Commercial Bid.

The EMD shall remain valid for a period of 45 days beyond Bid Validity i.e., 120+45 = 165 days after the date of opening of the tender. Any short validity, the tender shall be treated as unresponsive and rejected. The EMD should be in Indian Rupees only. Successful tenderer's EMD will be returned without any interest, after the receipt of Performance Security from the tenderer. Unsuccessful Tenderers EMD will be returned to them without any interest, after expiry of the tender validity period.

The firm who are registered under UDYAM as Micro & Small Enterprises (MSEs) for Manufacturing, National Small Industries Corporation (NSIC), District Industrial Centres (DIC), Small Scale Industries (SSI) for Manufacturing of Tendered Goods may be exempted from submitting the EMD subject to the submission of valid certificate(s) during the tender validity period.

EMD must be furnished along with the tender in the form of Demand Draft/ Bankers Cheque denominated in Indian Rupees drawn on any Scheduled Commercial Bank, in favour of India Government Mint, Hyderabad payable at Hyderabad or can be submitted online through NEFT / RTGS to the following Bank details:

INDIA GOVERNMENT MINT, HYDERABAD (A UNIT OF SPMCIL) -COLLECTION A/C

Account No: 201003484303

IFSC Code: INDB0000004

Bank Name: INDUSIND BANK

Branch address: 0004 - HYDERABAD

Note: Earnest Money Deposit (EMD) in original shall be sent to the designated officer Mr. V. Kiran Kumar, Joint General Manager (Materials), India Government Mint, Hyderabad through post or by hand so as to reach within 5 days' time of tender opening.

5. Two bid systems:

- i. E-Tender will consist of Two Bid system i.e. Part I – Techno-commercial Bid and Part II -Financial/ Price Bid.
- ii. The tenderer is requested to bifurcate their quotations in two parts – first part, called the Techno-commercial Bid, containing the relevant technical details and documents required & Part-I shall not contain any price aspects. The Second part, Called Financial Bid, contains Price quotation/Offer for the tendered item.
- iii. Part I- Techno-commercial Bid and Part II- Financial/ Price Bid are to be submitted through e-tendering portal i.e. CPPP (E-tendering) <https://etenders.gov.in/eprocure/app> on or before the due date of submission of tenders.
- iv. Revealing of Price in Techno-commercial Bid would only lead for rejection of Bid.
- v. Price bid will be considered of those firms who will qualify in the Techno-commercial bid. The opening date of the financial bid will be intimated accordingly to those firms who have qualified in Techno-Commercial Bid.
- vi. All the Documents/Copies submitted by the tenderer shall be complete in every aspect with all their enclosures/ attachments duly numbered and signed on each and every page of the bid.
- vii. The bidder has to sort and arrange the documents as per the tender document and only then numbering of the document(s) maybe done accordingly.
- viii. Bidder has to furnish stipulated documents in support of fulfilment of qualifying criteria. Non-submission or incomplete submission of documents may lead to rejection of offer.

6. Terms and Mode of Payments: (GCC Clause No.22.3, 22.4, 22.6)

PAYMENT TERMS: 100% Payment will be made within 30 days after issue of Final Acceptance Certificate (FAC).

7. Warranty: (GCC Clause No.16) - Warranty shall remain valid for one year from the date of issue of Final Acceptance Certificate by India Government Mint, Hyderabad or for fifteen months from the date of dispatch from the supplier's premises, whichever is earlier.

8. Pre-Bid Meeting:

All interested bidders may visit the site to understand the site conditions. Pre-Bid conference to be held on 28.05.2025 at IGM Hyderabad. Clarifications will be given for the Queries received on or before 26.05.2025. Queries may be sent to the following E-mails: purchase.igmh@spmCIL.com, igm.hyderabad@spmCIL.com

Section VII: Technical Specifications

SITC FOR UPGRADATION OF EXISTING CCTV SURVILLANCE SYSTEM

A. PREAMBLE:-

INDIA GOVERNMENT MINT, HYDERABAD ('IGM, HYDERABAD') A UNIT OF SPMCIL IS ENGAGED IN MANUFACTURING OF CIRCULATION COINS, COMMEMORATIVE COINS, AND MEDALS. THE ORGANIZATION PROPOSES FOR "UPGRADATION OF EXISTING CCTV SURVILLANCE SYSTEM IN IGM, HYDERABAD. THIS PROPOSAL INCLUDES FIXING SERVERS AS PER REQUIREMENT, USING EXISTING/ NEW/ COMBINATION OF EXISTING AND NEW INFRASTRUCTURE LIKE OFC BACK BONE, IT INFRASTRUCTURE SUPPLYING OF VMS APPLICATION SOFTWARE. THE DESIGN OF IP CCTV SYSTEM MAY CONSIDER OFC BACK BONE, UTP CABLES AND PASSIVE COMPONENTS AND PROVIDING ADDITIONAL NETWORKING INFRASTRUCTURE WHEREVER REQUIRED AND DESIGN COMPLETELY INDEPENDENT IP CCTV SYSTEM TO FULFIL SCOPE OF WORK AND TO ENSURE FAST, STABLE, RELIABLE AND ROBUST PERFORMANCE. THE TASK WOULD BE EXECUTED BY UNDERSTANDING THE COMPANY'S SCOPE OF WORK FOR IMPLEMENTING THE NEW SOLUTION BY THE SYSTEM INTEGRATOR/OEM/OEM INTEGRATOR INCLUDING DESIGN, SUPPLY, INSTALLATION & COMMISSIONING ON A TURNKEY BASIS, TRAINING OF COMPANY'S OFFICIALS, HANDING OVER ETC.

B. EXISTING SYSTEM DESCRIPTION:-

1. THERE ARE APPROX. 89 NOS. IP CAMERAS INSTALLED AT VARIOUS LOCATIONS.
2. THESE CAMERAS ARE CONNECTED TO FIELD SWITCHES.
3. FIELD SWITCHES ARE CONNECTED TO CORE SWITCHES THROUGH OFC BACKBONE.
4. VMS SERVER, RECORDING SERVERS, CORE SWITCHES AND NAS STORAGE ARE INSTALLED AT CCTV CONTROL ROOM.
5. RECORDING OF EXISTING 89 CAMERAS IS STORED AT EXISTING NAS STORAGE FOR 90 DAYS.
6. LIVE DISPLAY OF THESE IP CAMERAS IS AVAILABLE AT CCTV CONTROL ROOM.

C. SCOPE OF WORK:-

SCOPE OF WORK SHALL INCLUDE DESIGNING & INTEGRATION OF EXISTING CAMERAS, SUPPLYING, INSTALLATION OF NEW SERVERS, WORKSTATIONS, VIDEO MANAGEMENT APPLICATION AND OTHER RELATED ACCESSORIES TO COMPLETE THE INFRASTRUCTURE UP GRADATION WITHOUT DISTURBING THE EXISTING IP SYSTEM FUNCTIONING .

1. BOM IS ONLY INDICATIVE AND DERIVED FOR FIVE(NOS) SERVERS, FOUR(NOS) WORKSTATION, 1 (NOS) 8-BAY NAS(NETWORK ATTACHED STORAGE) & UPGRADATION OF EXISTING MILESTONE XPROTECT VIDEO MANAGEMENT APPLICATION USING EXISTING OFC BACK BONE. THE SCOPE INCLUDES RECORDING OF ALL CAMERAS {SYSTEM SHALL BE CAPABLE TO CATER 200 CAMERAS} WHICH MUST BE DISPLAYED IN CLIENT/ WORKSTATION PC HAVING RESPECTIVE APPLICATIONS RUNNING.
2. THE OBJECTIVE SHALL BE TO PROVIDE HIGH DEGREE OF DIGITAL VIDEO SURVEILLANCE TO THE PREMISE BY UPTO 200 NOS. IP (INTERNET PROTOCOL) BASED CAMERAS. THE PURPOSE IS TO MONITOR THE ENTIRE AREA AND TO RECORD, STORE AND RETRIEVE THE EVENTS, WHENEVER REQUIRED. IT IS ALSO ESSENTIAL TO HAVE RECORDED VIDEO RECORDING OF ALL CAMERAS TO BE STORED FOR A MINIMUM PERIOD OF 90 DAYS TO FACILITATE INVESTIGATIONS OF A REPORTED CASE OR EVENT AND FAIL OVER SERVER SHOULD KEEP 7 TO 10 DAYS STORAGE.
3. THE SUCCESSFUL BIDDER HAS TO PROVIDE COMPLETE SUPPORT WHICH INCLUDES SERVERS, WORK STATION, EXISTING STORAGE (NAS), VMS, EXISTING LAYER 2/LAYER 3 SWITCHES, EXISTING NETWORK BACKBONE & OTHER RELATED COMPONENTS TO RUN THE EXISTING CCTV SURVEILLANCE SYSTEM SMOOTHLY.
4. SUPPLIED VMS SYSTEM SHALL ABLE TO PERFORM WITH ALL THE HIGH-RESOLUTION CAMERA (MINIMUM 200) CONTINUOUS RECORDINGS FOR A PERIOD OF MINIMUM 90 DAYS @ 25 FPS AT 720P RESOLUTION OR BETTER QUALITY USING SUITABLE COMPRESSION TECHNIQUES H.265 FOR ALL CAMERAS.

5. THE STORAGE SYSTEM SHALL BE HAVING MINIMUM:
 - a. NETWORK VIDEO RECORDING SERVER SHOULD CONFIGURE WITH EXISTING NAS STORAGE TO RETAIN THE FOOTAGES.
 - b. MINIMUM THROUGHPUT OF EACH SERVER SHALL HAVE 1100 MBPS OR BETTER.
6. STORAGE, SERVER, WORKSTATION AND VIDEO PANEL WILL BE INSTALLED IN THE EXISTING CCTV CONTROL ROOM.
7. SYSTEM SHALL USE VIDEO SIGNALS FROM VARIOUS TYPES OF INDOOR/OUTDOOR COLOUR HD CAMERAS (IP BASED) INSTALLED AT DIFFERENT LOCATIONS, PROCESS THEM FOR VIEWING ON WORKSTATIONS/EXISTING AT CENTRAL CONTROL ROOM, LOCAL CONTROL ROOMS AND SIMULTANEOUSLY RECORD ALL THE CAMERAS AFTER COMPRESSION USING H.264 / H.265 STANDARD AND STREAMED OVER THE IP NETWORK AT 720 P RESOLUTION WITH 25FPS FRAME RATE. THE PICTURE QUALITY OF RECORDED REPLAY SHOULD BE AS CLEAR AS LIVE VIDEO WITHOUT ANY LOSS OF FRAME. PTZ CONTROLLERS/ JOY STICK SHALL BE USED FOR PAN, TILT, ZOOM, AND OTHER FUNCTIONS OF PTZ CAMERAS.
8. ALL CAMERA RECORDINGS SHALL HAVE CAMERA ID & LOCATION/AREA OF RECORDING AS WELL AS DATE/TIME STAMP SHALL BE PROGRAMMABLE BY THE SYSTEM ADMINISTRATOR WITH USER ID & PASSWORD. ALSO, SYSTEM MUST HAVE PROVISION TO CREATE MULTIPLE USER ID IN DIFFERENT LEVELS (LIKE POWER USER, FULL ADMIN, SEARCH ONLY, LIVE + SEARCH, LIVE ONLY) WITH RESTRICTED ACCESS BY PROVIDING SELECTIVE PRIVILEGES LIKE LIVE MONITORING, RECORDED FOOTAGE VIEWING, ADD / DELETE CAMERA, CONFIGURE AND SYSTEM ADMINISTRATOR.
9. THE LIVE VIDEO, RECORDING & REPLAY SHOULD BE SMOOTH & CONTINUOUS WITHOUT ANY SLUGGISHNESS.
10. SYSTEM SHALL HAVE THE FACILITY OF VIEWING, RECORDING & REPLAY, BACKUP/ TRANSMISSION AND REMOTE ACCESS SIMULTANEOUSLY. THE OFFERED SYSTEM SHALL HAVE FACILITY TO EXPORT THE DESIRED PORTION OF CLIPPING (FROM A DESIRED DATE/TIME TO ANOTHER DESIRED DATE/TIME) ON DVD OR PEN DRIVE. VIEWING OF THIS RECORDING SHALL BE POSSIBLE ON ANY STANDARD PC USING STANDARD SOFTWARE LIKE WINDOWS MEDIA PLAYER ETC. EXPORT FILE FORMATS SUPPORTED: .EXE, .AVI, .PS, .MOV, OR ANY NATIVE FILE FORMAT. THE VMS STANDALONE PLAYER SHALL BE ABLE TO AUTHENTICATE THAT THE VIDEO HAS NOT BEEN TAMPERED WITH USING A KEYED HASH MESSAGE AUTHENTICATION CODE.
11. ALL THE WORKSTATIONS IN LAN SHOULD BE PROVIDED WITH SOFTWARE TO VIEW AND CONTROL THE CAMERAS AND RETRIEVE THE RECORDED VIDEO IMAGES FROM THE RECORDING SERVER SEAMLESSLY. THE IP CCTV SYSTEM SHOULD BE COMPATIBLE TO WORK IN LAN ENVIRONMENT FOR OFFICE NETWORKING OF IP CCTV SYSTEM.
12. THE SYSTEM SHOULD BE DESIGNED IN SUCH A MANNER THAT OPERATIONAL DATA IS NOT LOST IN CASE OF ANY FAILURE OF EQUIPMENT OR COMMUNICATION NETWORK AND SHALL DESIGN AN EFFECTIVE NETWORK TO PROVIDE 100% UPTIME FOR THE ENTIRE LINK. CCTV RECORDING SYSTEM SHOULD HAVE FAILOVER MECHANISM.
13. IT MUST BE POSSIBLE TO REMOVE ONE OF THE REDUNDANT SYSTEMS FOR MAINTENANCE WITHOUT INTERRUPTING OPERATION AND UPON ITS REINSTATEMENT, AUTOMATICALLY RE-SYNCHRONIZE AGAIN WITHOUT INTERRUPTION TO SYSTEM OPERATION.
14. THE PROPOSED SOLUTION SHOULD BE ABLE TO GENERATE VARIOUS STANDARD/ CUSTOMIZED REPORTS FOR EVENT ANALYSIS / REPORTING PURPOSES.
15. NETWORK VIDEO RECORDING SERVER SHALL HAVE PROVISION TO SHOWCASE DIFFERENT ANALYTICS WHICH ARE BASED ON CAMERA EDGE AND SERVER BASED.
16. SYSTEM SHOULD HAVE FACILITY TO EXPORT IN CSV AND EXCEL AND JPEG.



17. THE FUNCTIONAL REQUIREMENT IS ONLY INDICATIVE. THE BIDDER SHALL QUOTE THE LATEST TECHNOLOGY SYSTEM AVAILABLE AT THE TIME OF SUBMITTING THE BID. THE BIDDER SHALL PROPOSE THE MOST SUITABLE ECONOMICAL INTEGRATED SYSTEM SOLUTIONS.

18. LATEST REVISION OF ALL APPLICABLE IE RULES AND OTHER REGULATIONS SHALL BE FOLLOWED AND COMPLY WITH ALL THE SAFETY STATUTORY REQUIREMENTS WHILE EXECUTING THIS WORK.

19. THE CCTV SERVERS SHOULD HAVE THE CAPACITY OF FUNCTIONING ON 24X7 DAYS BASIS IN INDIAN CONDITIONS AND SHOULD PROVIDE THE FAILURE OVER CONDITION.

20. THE BIDDER WILL HAVE TO PROVIDE ALL SOFTWARE UPDATES, RELEASES, VERSION UPGRADES, NEW VERSIONS ETC. WITHIN 30 DAYS OF THEIR AVAILABILITY AT NO ADDITIONAL COST DURING THE PERPETUAL LICENCE PERIOD.

21. THE OEM OF MAJOR ITEMS (LIKE CAMERA, SERVERS, WORKSTATION. VIDEO MANAGEMENT SERVERS, SWITCHES ETC.) ITS SISTER CONCERNS, OR ANY OF ITS GROUP COMPANY OR SUBSIDIARY SHOULD NOT HAVE BEEN BLACKLISTED IN LAST 10 YEARS BY ANY MINISTRY UNDER GOVERNMENT OF INDIA OR BY GOVERNMENT OF ANY STATE IN INDIA OR ANY OF THE GOVERNMENT PSUS AS ON TENDER FLOATING DATE.

22. THE SOURCE CODE OF VIDEO MANAGEMENT SOFTWARE SHOULD NOT RESIDE IN ANY COUNTRY SHARING LAND BORDER WITH INDIA. UNDERTAKING SIGNED BY AUTHORIZED SIGNATORY REGARDING THE SOURCE CODE.

23. IN ORDER TO OPTIMIZE THE MEMORY, WHILE RECORDING, VIDEO SHALL BE COMPRESSED USING H.264 / H.265 STANDARD AND STREAMED OVER THE IP NETWORK.

24. ALL SOFTWARE LICENSES SHOULD BE IN THE NAME OF INDIA GOVERNMENT MINT, HYDERABAD.

25. THE RECORDING SERVERS SHALL BE ABLE TO SUPPORT ALL CAMERAS AT 25 FRAMES PER SECONDS AND 720P RESOLUTION WHILE MAINTAINING LESS THAN 70% LOAD ON EACH NETWORK VIDEO RECORDING SERVER.

26. THE SYSTEM SHALL BE BASED ON THE LATEST IN SOFTWARE PROGRAMMING TECHNOLOGY. THE SOFTWARE SHOULD BE COMPATIBLE WITH WINDOWS OPERATING SYSTEMS (WINDOWS 11/ LINUX UBUNTU /WINDOWS SERVER 2022 OR LATER VERSIONS) AND SHOULD BE USER FRIENDLY. THE SYSTEM SHALL ALLOW OPERATION WITH PC VIA CLIENT MODULE.

27. INDIVIDUAL COMPONENT FAILURES WITHOUT AFFECTING THE WHOLE SYSTEM OF VIDEO VIEWING AND RECORDING WILL BE AS PER THE SEVERITY LEVELS DEFINED BELOW

I. SEVERE (S1): CALLS THAT CAN HAVE SEVERE IMPACT ON BUSINESS AFFECTING IP CCTV SYSTEM AT LARGE, WITHOUT LOSS OF VIEW AND WHOLE IP CCTV SYSTEM DATA LOSS, FALLS UNDER THIS CATEGORY. E.G. – NAS STORAGE NOT AVAILABLE (BUT DATA AVAILABLE AT NVRs), L3 SWITCH ISSUES (STAND/ BY L3 SWITCH MUST TAKE OVER), NVR DOWN (BUT DIRECT RECORDING IN SAN AND VIEWING CONTINUES) ETC.

II. ESSENTIAL (S2): CALLS THAT CAN HAVE ESSENTIAL IMPACT ON THE IP CCTV SYSTEM AFFECTING INDIVIDUAL COMPONENT OR SERVICE, BUT DO NOT IMPACT IP CCTV FUNCTIONING AND LOSS OF VIDEO DATA AS A WHOLE SYSTEM, AND HAVE PARTIAL LOSS OF VIEWING OR RECORDING A PARTICULAR SECTION/AREA FALL UNDER THIS CATEGORY. E.G. – OS/ APPLICATION FUNCTIONING, OFC NETWORK ISSUES, REDUNDANT SERVER ISSUES, L2 SWITCH ISSUES, VIRUS, HARD DISK CRASHES ETC.,

III. NORMAL (S3): CALLS THAT DO NOT HAVE MUCH IMPACT ON THE IP CCTV SYSTEM AS A WHOLE BUT ONE OR MORE LOW LEVEL COMPONENTS FAILURE THAT RESULT IN PARTIAL LOSS OF RECORDING/ VIEWING FOR A SPECIFIC CAMERA OR VIEW FALL UNDER THIS CATEGORY. E.G. – IP CAMERA ISSUES, L1 SWITCH CAT6 CABLE ISSUES ETC.

TABLE – 01 (SERVICE CLASSIFICATION)

I. SEVERITY LEVEL RESPONSE TIME(SLRT): TIME WITHIN WHICH THE CONTRACTOR SHOULD RESPOND)



II. RESOLUTION TIME (RT): TIME WITHIN WHICH THE CONTRACTOR SHOULD BRING THE SERVICE BACK TO NORMAL WORKING CONDITION.

III. QUARTERLY UPTIME COMMITMENT IN PERCENTAGE(QPC): AT ANY POINT OF TIME, THE BELOW QUARTERLY UPTIME COMMITMENT SHOULD BE MAINTAINED:

SEVERITY SLRT RT QPC

S1 1 HOUR 4 HOURS 99.50% - 99.00%

S2 1 HOUR 4 HOURS 95.00% - 95.00%

S3 4 HOURS 16 HOURS 95.00% - 95.00%

PENALTY CLAUSE:-

AN AMOUNT OF RS.400/- PER CAMERA PER DAY WILL BE PENALIZED TO VENDOR FOR NON FUNCTIONING OF SURVEILLANCE SYSTEM. HOWEVER, NO PENALTY WILL BE IMPOSED IF THE FAILURE IS ON ACCOUNT OF INDIA GOVERNMENT MINT, HYDERABAD SIDE.

D. OTHER REQUIREMENTS

1. SUPPLY, INSTALLATION AND COMMISSIONING: SUPPLY, INSTALLATION, COMMISSIONING AND PROVING OF PERFORMANCE TO BE CARRIED OUT BY THE SUPPLIER AT INDIA GOVERNMENT MINT, HYDERABAD SITE WITHIN STIPULATED PERIOD TO THE SATISFACTION OF INDIA GOVERNMENT MINT, HYDERABAD.

2. SPARES AND SERVICE SUPPORT: SUPPLIER SHALL ATTEND PERIODICAL AND BREAKDOWN MAINTENANCE OF THE SYSTEM DURING THE WARRANTY PERIOD WITHOUT ANY ADDITIONAL COST. ALSO, THE BIDDER SHALL ENSURE SPARE SUPPORT FOR MINIMUM OF EIGHT YEARS FROM THE FAC DATE. NON AVAILABILITY OF SPARES/STANDBY UNITS/COMPONENTS WILL NOT BE ACCEPTED AS A REASON FOR WAIVING OF PENALTY TOWARDS DELAY IN RENDERING PROMPT SERVICE. FOR ENSURING PROMPT SERVICE, MINIMUM REQUIRED SPARES/STANDBY UNITS SHALL BE MAINTAINED AT SITE DURING WARRANTY PERIOD. AFTER USE OF ANY SUCH SPARE UNIT/CARDS ETC., THE SAME SHALL BE REPLENISHED AT THE EARLIEST.

3. SOFTWARE LICENSE: ALL SOFTWARE (OPERATING AND APPLICATION) LICENSES FOR LIFETIME SHOULD BE IN THE NAME OF INDIA GOVERNMENT MINT, HYDERABAD AND SHALL BE UPGRADED AT FREE OF COST AS & WHEN NEW VERSIONS ARE RELEASED.

4. TRAINING TO USER: BIDDER SHALL IMPART PROPER TRAINING TO THE USERS AND TECHNICAL TEAM FOR TROUBLE FREE OPERATION AND MAINTENANCE OF THE SYSTEM.

5. BIDDER SHOULD HAVE AT LEAST ONE OR MORE CERTIFIED VIDEO MANAGEMENT SERVER ENGINEER.

6. TOOLS AND TACKLES: ALL TOOLS & TACKLES, EQUIPMENT AND OTHER REQUIRED FACILITIES FOR UN-LOADING, SHIFTING OF EQUIPMENT TO THE WORKPLACE AND ERECTION & COMMISSIONING OF THE SYSTEM SHALL BE ARRANGED BY THE BIDDER/VENDOR/CONTRACTOR.

7. THE BIDDER MUST PROVIDE A VALID CERTIFICATE OF AUTHORIZATION (MAF) FOR PROVIDING AFTER SALES SERVICE FOR ALL THE THIRD-PARTY EQUIPMENT / SYSTEMS SUPPLIED FROM THE OEM. THE CERTIFICATE SHOULD BE IN THE LETTER HEAD OF OEM ISSUED ON THE NAME OF BIDDER AND CURRENTLY VALID.

8. MANUFACTURER AUTHORISATION (MAF) FOR SOFTWARE, SERVER AND WORKSTATION IS A MUST TO ACCOMPANY THE BID DOCUMENT.

9. MODIFICATIONS: BIDDER SHALL AGREE FOR ANY MINOR MODIFICATIONS IN SYSTEM UP-GRADATION (WITHOUT HAVING ANY ADDITIONAL FINANCIAL IMPLICATIONS) TO MATCH WITH SPECIFIC REQUIREMENT OF INDIA GOVERNMENT MINT, HYDERABAD.

10. OEM OF VMS SHOULD NOT HAVE ANY TYPE CONTROL IN VMS SOFTWARE.

E. FINAL ACCEPTANCE TEST (FAT):

THE UPGRADED SYSTEM SHALL BE TESTED FOR 15 DAYS IN REAL WORKING ENVIRONMENT.

FAT SHALL INCLUDE BUT NOT RESTRICT TO THE FOLLOWING TESTS:

- 1) TESTING OF FAILOVER OF RECORDING SERVERS.
- 2) TESTING OF HARD DISC FAILURE IN RAID 5/6 CONFIGURATION OF STORAGE.
- 3) CHECKING OF RECORDING, PLAYBACK & OTHER VARIOUS FEATURES RANDOMLY
- 4) CHECKING OF RECORDING, REPLAY VIDEO QUALITY, FRAME RATE ETC. TO ENSURE SMOOTH & CONTINUOUS VIDEO WITHOUT ANY JERKS.
- 5) CHECKING OF ALL SOFTWARE IN SERVER & CLIENT HAS BEEN INSTALLED CORRECTLY & RUNNING WITHOUT ANY BUG/ERROR.
- 6) TESTING OF THE FUNCTIONALITY OF THE VMS FEATURES INCLUDING RECORDING, RETRIEVAL OF RECORDINGS ETC,
- 7) TESTING OF CAMERA EDGE RECORDING DURING FAILURE OF NETWORK/CAMERA SERVERS ETC.
- 8) ANY OTHER TEST NECESSARY / RELEVANT FOR FULL FUNCTIONING OF THE SYSTEM.

VIDEO MANAGEMENT SOFTWARE: SITC OF EXISTING VMS UPGRADATION- 1 SET

- THE SI MUST UPGRADE EXISTING VMS VERSION TO LATEST VERSION OF MILESTONE XPROTECT WITH BELOW SCOPE OF WORK ENSURING ALL THE PREREQUISITES FOR THE SYSTEM.
- BEFORE UPGRADATION SI MUST ENSURE THAT SYSTEM REQUIREMENTS FOR UPGRADE ARE IN PLACE.
- EXISTING CONFIGURATION BACKUP FROM THE MANAGEMENT SERVER AND DB MUST BE TAKEN BEFORE PROCEEDING FOR UPGRADATION.
- AFTER CONFIGURATION BACKUP, MANAGEMENT AND DATABASE SERVER MUST BE UPGRADED AND ENSURED WHETHER ALL THE SERVICES ARE RUNNING PROPERLY.
- ONCE MANAGEMENT SERVER IS UP AND RUNNING, ALL THE RECORDING SERVERS MUST BE UPGRADED ONE BY ONE AND DURING RECORDING SERVER UPGRADATION SWITCH THE RECORDING SERVER OPERATIONS TO FAILOVER RECORDING SERVER.
- FAILOVER RECORDING SERVER MUST BE UPGRADED TO LATEST VERSION AFTER COMPLETING RECORDING SERVER'S UPGRADATION.
- CLIENT APPLICATIONS INSTALLED ON ALL MACHINES SHOULD BE UPGRADED TO LATEST VERSION.
- AFTER COMPLETE UPGRADATION, ENSURE MILESTONE RELATED SERVICES IN ALL SERVERS & CONNECTED CAMERAS IN VMS ARE WORKING NORMALLY AS PER THE CONFIGURATIONS MADE BEFORE UPGRADE.

F. GENERAL

- a. THE VIDEO MANAGEMENT SYSTEM SHALL BE A FULLY DISTRIBUTED SOLUTION, DESIGNED FOR LIMITLESS MULTI-SITE AND MULTIPLE SERVER INSTALLATIONS REQUIRING 24/7 SURVEILLANCE WITH SUPPORT FOR DEVICES FROM DIFFERENT VENDORS. THE VIDEO MANAGEMENT SYSTEM SHALL OFFER CENTRALIZED MANAGEMENT OF ALL DEVICES, SERVERS AND USERS AND MUST EMPOWER A FLEXIBLE RULE-BASED SYSTEM DRIVEN BY SCHEDULES AND EVENTS.
- b. VMS SHALL SUPPORT IP CAMERAS (ALL THE FEATURES & FUNCTIONALITIES) FROM AT LEAST FIFTY (50) MAJOR CAMERA BRANDS WITH API LEVEL INTEGRATION. DOCUMENTARY EVIDENCE HAVING MAKE DETAIL SHOULD BE MANDATORILY SUBMITTED.
- c. THE VMS APPLICATION SHALL SUPPORT ALL THE FEATURES & FUNCTIONALITIES OF THE OFFERED CAMERAS. DOCUMENTARY PROOF SHOULD BE SUBMITTED FOR SAME.
- d. THE OFFERED VMS SHOULD HAVE INTEGRATION WITH 10000+ CAMERA MODELS AT API LEVEL. DOCUMENTARY EVIDENCE HAVING CAMERA MAKE AND MODEL DETAIL SHOULD BE MANDATORILY SUBMITTED.
- e. VMS SHALL HAVE API BASED INTEGRATION WITH THE MAJOR CAMERA VENDORS IN ORDER TO SUPPORT FEATURES SUCH AS, UP TO 3 MULTI-STREAMS, SD CARD STORAGE SYNC, CAMERA BASED EDGE ANALYTICS SUPPORT, CAMERA I/O SUPPORT, CAMERA AUDIO SUPPORT, ETC.
- f. TO ENSURE OPENNESS, VMS, CAMERAS AND VA SHOULD NOT BE FROM THE SAME MANUFACTURER BUT SHOULD BE TIGHTLY INTEGRATED ON API LEVEL.
- g. VMS SHALL SUPPORT INSTALLATION AND ABILITY TO RUN ON VIRTUALIZED WINDOWS SERVERS

- h. VMS MANUFACTURER SHALL PROVIDE THEIR SDK (OR ANY OTHER INTEGRATION MEANS) LIBRARIES AND DOCUMENTATION) TO ENSURE A SEAMLESS INTEGRATION WITH ANY OTHER SYSTEM
- i. VMS SHALL BE OPEN TO ANY STANDARD STORAGE TECHNOLOGIES INTEGRATION.
- j. VMS SHALL BE OPEN TO ANY VIDEO WALL SYSTEM INTEGRATION.
- k. VMS SHOULD HAVE THE POSSIBILITY TO INTEGRATE THIRD PARTY VIDEO ANALYTICS SYSTEMS.
- l. VMS SHOULD CONSIST OF ONLY BASE LICENSE AND CHANNEL LICENSES. VMS SHOULD BE PROVIDED WITH UNLIMITED NUMBER OF FAILOVER SERVERS AND FAILOVER CAMERA LICENSES.
- m. THE SYSTEM SHALL ACT AS AN SNMP AGENT WHICH CAN GENERATE AN SNMP TRAP AS A RESULT OF RULE ACTIVATION IN ADDITION TO OTHER EXISTING RULE ACTIONS.
- n. THE SYSTEM SHALL BE ABLE TO UTILIZE MICROSOFT WINDOWS SNMP SERVICE FOR TRIGGERING OF SNMP TRAPS
- o. THE VMS SHOULD HAVE THE FEATURE TO RECORD CLIENT WORKSTATION SCREENS FOR MONITORING & TO PROVIDE AN ACCOUNT OF FRAUDULENT ACTIVITIES BY CAPTURING SCREEN RECORDINGS OF ACTIVITIES/TRANSACTIONS.
- p. THE VMS SHOULD BE MANDATORY PROVIDED WITH 200 NUMBERS OF CLIENT LICENSES. IN CASE OF ADDITIONAL LICENSES REQUIRED IT MUST BE FREE OF COST.
- q. THE VMS SHOULD HAVE THE FEATURE OF PRIVACY MASKING TO CONCEAL CERTAIN PARTS OF THE IMAGE, BOTH IN LIVE AND PLAYBACK VIDEO AND IN EXPORTED MATERIAL. IT SHOULD SUPPORT PERMANENT MASKS AND LIFTABLE MASKS THAT CAN BE LIFTED AND MANAGED WITH USER CREDENTIALS. MASKING LEVEL SHOULD BE ADJUSTABLE AND SHOULD RANGE BETWEEN 'LIGHT BLUR' TO 'SOLID GREY'.
- r. THE VMS SHOULD SUPPORT VIDEO DATA GROOMING FEATURE TO ENABLES REDUCTION OF VIDEO RECORDING DATA SIZE BY REDUCING THE FRAME RATE OF THE VIDEO DATA.
- s. VMS SHOULD SUPPORT SCALABLE VIDEO QUALITY RECORDING TO RECORD HIGH-QUALITY VIDEO TO EDGE STORAGE, WHILE A LOW-QUALITY REFERENCE VIDEO STREAM CAN BE RECORDED CENTRALLY IN THE RECORDING SERVERS
- t. THE VMS SYSTEM SHALL BE A SCALABLE CLIENT – SERVER ARCHITECTURE BUILT USING WELL KNOWN OPERATING SYSTEMS
- u. THE VMS SYSTEM SHALL ENABLE RECORDING TO BE DONE AT THE AGGREGATION SITES AND SHALL ALLOW THE LOCAL CONTROL CENTER TO IMPORT SELECTED VIDEO'S ON DEMAND.
- v. TO FACILITATE THE VMS SYSTEM ARCHITECTURE, THE BIDDER SHALL ENSURE THAT SUFFICIENT CAPACITY IS DESIGNED INTO THE DATA COMMUNICATIONS & TELECOMMUNICATIONS INFRASTRUCTURE TO DELIVER THE REQUIRED FUNCTIONALITY, ALONG WITH THE ABILITY TO ALLOCATE AND RESERVE RESOURCES (INCLUDING BANDWIDTH).
- w. THE RECORDING SERVER SHALL HAVE THE ABILITY TO HANDLE VIDEO MOTION DETECTION ON NVIDIA GPU TO OPTIMIZE THE SERVER REQUIREMENT.
- x. THE VMS DATA COMMUNICATIONS AND TELECOMMUNICATIONS NETWORK SHALL USE A SUITABLE TRANSPORT MEDIUM AND ASSOCIATED CABLING AND DATA TRANSMISSION INFRASTRUCTURE THAT WILL SUPPORT REAL-TIME VIDEO DISPLAY OF CAMERAS AT THE NOMINATED OPERATIONS CENTRES. THE TYPE OF TRANSMISSION NETWORK SHALL BE DETERMINED BY THE BIDDER.
- y. THE VMS SYSTEM SHALL BE COMPATIBLE TO SINGLE AND MULTIPLE PROCESSOR SERVERS. THE SERVER PROCESSOR & HARDWARE SHALL BE OPTIMIZED IN ALL CASES.
- z. THE VMS SYSTEM SHALL CLUSTER THE PROCESSING & MEMORY LOAD ACROSS SEVERAL MACHINES. THE FAILURE OF ANY ONE SERVER IN THE SOLUTION SHALL NOT CAUSE A FAILURE IN THE ENTIRE SYSTEM.
- aa. THE VMS SYSTEM DEVICE DRIVERS SHALL BE STORED SEPARATELY TO THE CENTRAL CORE APPLICATION TO ENSURE ANY INSTABILITY IN 3RD PARTY SDKS DO NOT AFFECT THE CORE APPLICATION.
- bb. THE VMS MANAGEMENT SERVER SHALL BE ABLE TO INTELLIGENTLY SCAN AN IP NETWORK FOR NEW DEVICES (CAMERAS OR SERVERS) ALONG WITH AUTOMATIC MODEL DETECTION.
- cc. NETWORK INFRASTRUCTURE AND INSTALLATION ARE THE RESPONSIBILITY OF THE BIDDER. NETWORK COMPONENTS BOTH ACTIVE AND PASSIVE REQUIRED FOR THE SUCCESSFUL IMPLEMENTATION OF THE VIDEO SURVEILLANCE DETAILED IN THIS TENDER SHALL BE PROVIDED BY THE BIDDER. THE NETWORK INFRASTRUCTURE SHALL MEET THE STREAMING REQUIREMENT OF THE PROJECT WITHOUT ANY BOTTLENECKS. THE NETWORK INFRASTRUCTURE SHALL SUPPORT UDP MULTICAST, UDP UNICAST AND TCP TRANSMISSION.
- dd. THE VMS SYSTEM SHALL PROVIDE AN INTEGRATED SECURE, SCALABLE AND EASILY ACCESSIBLE SOFTWARE-BASED SOLUTION FOR THE MANAGEMENT OF THE EXISTING & FUTURE PHYSICAL SECURITY INFRASTRUCTURE

- ee. THE VMS SYSTEM SHALL PROVIDE A POWERFUL AND EFFICIENT MANAGEMENT INTERFACE FOR ALL THE SECURITY SYSTEMS ACROSS ALL MONITORED SITES.
THE VIDEO MANAGEMENT SYSTEM SHALL CONTAIN RECORDING SERVERS USED FOR RECORDING VIDEO FEEDS AND FOR COMMUNICATING WITH CAMERAS AND OTHER DEVICES. THE RECORDING SERVERS SHALL PROCESS THE RECORDINGS AND PLAYBACK THE VIDEO STREAMS.
- ff. THE VIDEO MANAGEMENT SYSTEM SHALL INCLUDE A FEDERATED ARCHITECTURE ALLOWING CLIENTS ON THE HOST SYSTEM WITH THE RIGHT USER RIGHTS TO VIEW VIDEO SOURCES BELONGING TO MULTIPLE INDEPENDENT VIDEO MANAGEMENT SYSTEMS SIMULTANEOUSLY, AS IF THEY WERE ON THE VIDEO MANAGEMENT SYSTEM SHALL CONTAIN A MANAGEMENT SERVER THAT SHALL BE THE CENTRAL MANAGER OF THE SYSTEM AND CONTROL RECORDING SERVERS, CAMERAS, DEVICES AND USERS. THE MANAGEMENT SERVER SHALL HANDLE THE INITIAL CLIENT LOGIN, SYSTEM CONFIGURATION AND LOGGING.
- gg. THE MANAGEMENT SERVER SHALL ALLOW ACCESS TO A SYSTEM MANAGER FROM WHERE THE ADMINISTRATOR CAN CONFIGURE AND MANAGE ALL SERVERS, CAMERAS AND USERS.
- hh. THE SYSTEM SHALL ALLOW THE MANAGEMENT SERVER TO BE INSTALLED ON MULTIPLE SERVERS WITHIN A CLUSTER OF SERVERS ENSURING THAT ANOTHER SERVER IN THE CLUSTER AUTOMATICALLY TAKES OVER IN CASE THE FIRST SERVER FAILS.
- ii. VMS SHOULD HAVE THE CAPABILITY TO INTEGRATE WITH 3RD PARTY ACCESS CONTROL SYSTEMS.
- jj. THE VMS SYSTEM SHALL SUPPORT DEVICE FIRMWARE UPGRADE OF SINGLE AND MULTIPLE DEVICES IN BULK FROM WITHIN THE MANAGEMENT INTERFACE
- kk. THE VIDEO MANAGEMENT SYSTEM SHALL ALLOW AN UNLIMITED NUMBER OF CAMERAS TO BE CONNECTED TO EACH RECORDING SERVER AND AN UNLIMITED NUMBER OF RECORDING SERVERS TO BE CONNECTED TO EACH MANAGEMENT SERVER ACROSS MULTIPLE SITES, IF REQUIRED.
- II. THE VIDEO MANAGEMENT SYSTEM SHALL SUPPORT HIGH AVAILABILITY OF RECORDING SERVERS. A FAILOVER OPTION SHALL PROVIDE STANDBY SUPPORT FOR RECORDING SERVERS WITH AUTOMATIC SYNCHRONIZATION TO ENSURE MAXIMUM UPTIME AND MINIMUM RISK OF LOST DATA.
- mm. THE VIDEO MANAGEMENT SYSTEM SHALL SUPPORT A VERSATILE RULE SYSTEM INCLUDING SCHEDULED OR EVENT-DRIVEN ACTIONS WITH NUMEROUS OPTIONS INCLUDING SUPPORT TO TIME PROFILES.
- nn. THE VIDEO MANAGEMENT SYSTEM SHALL SUPPORT MICROSOFT WINDOWS 7, MICROSOFT WINDOWS SERVER 2008 R2 STD OR HIGHER, MICROSOFT WINDOWS SERVER 2012 R2 STD OR HIGHER, MICROSOFT WINDOWS 8.1 (BUSINESS/ENTERPRISE/ULTIMATE) AND MICROSOFT WINDOWS 10 (BUSINESS/ENTERPRISE/ULTIMATE) WITH THE LATEST PATCHES AND SERVICE PACKS INSTALLED. THE SYSTEM MUST USE DIRECTX AND .NET FRAMEWORK.
- oo. VMS SHOULD BE FULL MEMBER OF ONVIF OR AFFILIATE TO PARENT COMPANY OR CONTRIBUTING MEMBERSHIP LEVEL
- pp. FIPS 140-2 COMPLIANT MODE: THE VMS HAS THE ABILITY TO OPERATE IN A FIPS 140-2 COMPLIANT MODE.
- qq. VMS OEM MUST BE GDPR COMPLIANT
- rr. THE VIDEO MANAGEMENT SYSTEM SOFTWARE SHALL INCLUDE MULTICAST AND MULTI-STREAMING SUPPORT.
- ss. THE VIDEO MANAGEMENT SYSTEM SHALL INCLUDE AUTOMATIC CAMERA DISCOVERY.
- tt. THE VIDEO MANAGEMENT SYSTEM SHALL INCORPORATE INTUITIVE MAP FUNCTIONS ALLOWING FOR MULTI-LAYERED MAP ENVIRONMENT. THE MAP FUNCTIONALITY SHALL ALLOW FOR THE INTERACTIVE CONTROL OF THE COMPLETE SURVEILLANCE SYSTEM, AT-A-GLANCE OVERVIEW OF SYSTEM INTEGRITY, AND SEAMLESS DRAG-AND-DROP INTEGRATION WITH VIDEO WALL MODULE OPTION.
- uu. THE VIDEO MANAGEMENT SYSTEM SHALL SUPPORT 56-BIT ENCRYPTION OF VIDEO FOR EXPORT PURPOSES. THE 56-BIT ENCRYPTION SHALL MEET THE REQUIREMENTS ON EXPORT LIMITS FOR ENCRYPTION.
- vv. THE VIDEO MANAGEMENT SYSTEM SHALL SUPPORT FULL TWO-WAY AUDIO BETWEEN CLIENTS AND REMOTE DEVICES. TWO-WAY AUDIO INTEGRATION SHALL SUPPORT THE FOLLOWING FEATURES AND FUNCTIONS:
- ww. THE VIDEO MANAGEMENT SYSTEM SOFTWARE SHALL PROVIDE FAST EVIDENCE EXPORT BY EXPORTING IN VIDEO TO VARIOUS FORMATS, INCLUDING VIDEO FROM MULTIPLE CAMERAS IN ENCRYPTED NATIVE DATABASE FORMAT WITH AN INCLUDED VIEWER.
- xx. THE VIDEO MANAGEMENT SYSTEM SHALL SHOW FULL AWARENESS OF THE SYSTEM THROUGH AUDIT LOGS AND SHOWS USER ACTIVITY THROUGH COMPREHENSIVE LOGS.

yy. THE VIDEO MANAGEMENT SYSTEM SHALL INCLUDE SUPPORT FOR A FRAME WORK DATA MODULE DESIGNED TO INTEGRATE MULTIPLE THIRD PARTY VIDEO CONTENT ANALYSIS (VCA) SOLUTIONS SEAMLESSLY INTO CLIENT VIEWER ENVIRONMENTS.

VMS SHOULD SUPPORT ONVIF S, G, T, Q & M PROFILE SUPPORTED BY IP DEVICES

AAA. THE VMS SOFTWARE MUST BE POSSIBLE TO INTEGRATE WITH NVRS.

BBB. ARCHIVED RECORDINGS FOR PREDEFINED DAYS SHOULD BE DELETED AUTOMATICALLY AFTER RETENTION PERIOD FROM THE CENTRAL STORAGE AS PER FIFO POLICY.

ccc. IN CASE OF NON-AVAILABILITY OF WAN LINK, VIDEO RECORDING SERVER SHALL SAVE MINIMUM RESOLUTION OF 800 X 600 DATA INTERNAL TO SERVER FOR UP TO 7 DAYS TO AVOID DATA LOSS, ONCE THE LINK IS ESTABLISHED THE ARCHIVING SHOULD HAPPEN COMPLETELY.

A. EDGE STORAGE

1. EDGE STORAGE SHALL SECURE THAT WHEN A LOST OR BROKEN CONNECTION IS BACK UP, THE DATA STORED ON THE CAMERA'S INTERNAL STORAGE SHALL BE RETRIEVED AND STORED IN THE MEDIA DATABASE.

2. EDGE STORAGE SHALL SECURE THAT AFTER RECOVERY FROM A MALFUNCTION IT SHALL BE POSSIBLE TO PLAY BACK AND VIEW THE VIDEO, AND AUDIO RECORDED BY THE DEVICE, WHILE THE MALFUNCTION PERSISTED

B. BOOKMARKING

1. A BOOKMARKING FEATURE SHOULD BE INCLUDED IN THE VIDEO MANAGEMENT SYSTEM, ALLOWING THE CLIENT VIEWER USERS TO MARK INCIDENTS ON LIVE AND/OR PLAYBACK VIDEO STREAMS.

C. OPTIMIZED VIDEO ARCHIVING

1. ADMINISTRATORS SHOULD BE ABLE TO SELECT A STORAGE CONTAINER FOR EACH DEVICE AND MOVE A DEVICE FROM ONE STORAGE CONTAINER TO ANOTHER OR MOVE ALL RECORDINGS INCLUSIVE ARCHIVES TO THE NEW STORAGE CONTAINER, OR DELETE THEM ALL.

2. ADMINISTRATORS SHOULD BE PROVIDED WITH AN OVERVIEW OF THE DEFINED STORAGE CONTAINERS, THEIR ARCHIVES WITH PATH, AND FREE AND USED SPACE ON THE DRIVES FOR EACH DEVICE, INCLUDING THE USED STORAGE SPACE IN THE RECORDING DATABASE, AND IN ARCHIVES.

3. VIDEO MANAGEMENT SOFTWARE SHALL ALSO HAVE ABILITY TO OPTIMIZE BANDWIDTH REQUIREMENT ON CLOUD BASED STORAGE SOLUTION BY RECORDING AT LOCAL SITE RECORDING SERVER FOR AT LEAST 24 HOURS AND ARCHIVE TO CLOUD ON SCHEDULE BASIS FROM DIFFERENT RECORDING SERVERS AT DIFFERENT TIME PROFILE IN ORDER TO UTILIZE MINIMUM BANDWIDTH.

D. FAILOVER SUPPORT

1. THE SYSTEM SHALL SUPPORT AUTOMATIC FAILOVER FOR RECORDING SERVERS. THIS FUNCTIONALITY MUST BE ACCOMPLISHED BY A FAILOVER SERVER THAT SHALL WORK AS A STANDBY UNIT, WHICH TAKES OVER IN THE EVENT THAT ONE OF A GROUP OF DESIGNATED RECORDING SERVERS FAILS. RECORDINGS SHALL BE SYNCHRONIZED BACK TO THE ORIGINAL RECORDING SERVER ONCE IT IS BACK ONLINE.

2. THE SYSTEM SHALL SUPPORT MULTIPLE FAILOVER SERVERS FOR A GROUP OF RECORDING SERVERS.

3. THE SYSTEM SHALL PROVIDE MONITORING OF ALL FAILOVER SERVERS FROM THE GRAPHICAL ALARM MANAGEMENT MODULE.

4. THE SYSTEM SHALL PROVIDE SEAMLESS ACCESS TO RECORDINGS ON THE FAILOVER SERVER FOR ALL CLIENTS THROUGH THE SAME CLIENT VIEWS ONCE THE SERVICES ARE FULLY STARTED.

E. MULTICAST SUPPORT

1. THE SYSTEM SHALL SUPPORT MULTICASTING OF VIDEO FEEDS TO CLIENT WORKSTATIONS IN ORDER TO CONSERVE NETWORK RESOURCES. MULTICASTING SHOULD BE ENABLED FROM THE RECORDING SERVERS AND NOT DIRECTLY FROM THE CAMERAS. THUS THE IGMP NETWORK WOULD BE NECESSARY ONLY FOR THE SWITCHES WHERE SERVER AND CLIENTS ARE CONNECTED.

2. MULTICASTING SHALL SEND A SINGLE STREAM OF VIDEO TO MULTIPLE CLIENTS, WHERE THE STREAM MAY BE DECODED AND DISPLAYED ON ALL CLIENTS SIMULTANEOUSLY. THIS FUNCTIONALITY SHALL SUPPORT VIRTUAL MATRIX CONFIGURATIONS.
3. THE INFRASTRUCTURE PROVIDED FOR THE SYSTEM SHALL SUPPORT INTERNET GROUP MANAGEMENT PROTOCOL (IGMP) FOR EACH REMOTE NETWORK.
4. THE SYSTEM SHALL AUTOMATICALLY SWITCH TO UNICAST, IF THE CLIENT FAILS TO CONNECT TO THE MULTICAST STREAM.

F. MULTI-STREAMING SUPPORT

1. THE RECORDING SERVER MUST ACCEPT, DISPLAY AND RECORD INDIVIDUAL STREAMS OF VIDEO FROM EACH CAMERA THAT SUPPORTS IT, FOR EXAMPLE, DISPLAY A STREAM IN H.264 FORMAT AND RECORD ANOTHER STREAM IN MPEG4 FORMAT. THE INTENT OF THIS FUNCTIONALITY SHALL BE PROVIDING INDEPENDENT STREAMS OF VIDEO FROM THE CAMERA TO THE SERVER WITH DIFFERENT RESOLUTION, ENCODING AND FRAME RATE.
2. MULTI-STREAMING SUPPORT SHALL ALLOW THE SYSTEM TO BE CONFIGURED WITH H.264 WITH A HIGH FRAME RATE FOR LIVE VIEWING AND SHALL ALLOW THE SYSTEM TO BE CONFIGURED WITH HIGH RESOLUTION H.264 AT LOW FRAME RATES FOR RECORDING AND PLAYBACK.
3. THE SYSTEM SHALL ALLOW RECORDED VIDEO TO BE RECORDED AT 8FPS.

G. SNMP SUPPORT

1. THE SYSTEM SHALL ACT AS AN SNMP AGENT WHICH CAN GENERATE AN SNMP TRAP AS A RESULT OF RULE ACTIVATION IN ADDITION TO OTHER EXISTING RULE ACTIONS.
2. THE SYSTEM SHALL BE ABLE TO UTILIZE MICROSOFT WINDOWS SNMP SERVICE FOR TRIGGERING OF SNMP TRAPS.

H. NAT FIREWALL SUPPORT:

1. THE SYSTEM SHALL SUPPORT PORT FORWARDING, WHICH MUST ALLOW CLIENTS FROM OUTSIDE OF A NETWORK ADDRESS TRANSLATION (NAT) FIREWALL TO CONNECT TO RECORDING SERVERS WITHOUT USING A VPN.
2. EACH RECORDING SERVER SHALL BE MAPPED TO A SPECIFIC PORT AND THIS PORT MUST BE FORWARDED THROUGH THE FIREWALL TO THE RECORDING SERVER'S INTERNAL IP ADDRESS.

I. MANAGEMENT SERVER REDUNDANCY:

THE MANAGEMENT SERVER SHALL PROVIDE A RESILIENT SYSTEM SOLUTION BASED ON WINDOWS SERVER CLUSTERING AND NATIVE, TO SECURE MAXIMUM UPTIME.

J. CENTRALIZED SEARCH:

THE SYSTEM SHALL HAVE DEDICATED TAB FOR SEARCHING RECORDING SEQUENCES, BOOKMARKS, EVENTS, MOTION, ALARMS. THESE SEARCH CATEGORIES CAN BE COMBINED, ALSO WITH THIRD PARTY SEARCH AGENT PLUGINS. SAVE SEARCH TEMPLATES. VISUALIZE LOCATION OF SEARCH RESULT. INTEGRATES WITH TECHNOLOGY PARTNER SOLUTIONS

K. MOTION DETECTION

1. THE SYSTEM SHOULD HAVE BUILT-IN, REAL-TIME, CAMERA-INDEPENDENT MOTION DETECTION WITH THE ABILITY TO GENERATE MOTION METADATA FOR SMART SEARCH.
2. THE SYSTEM SHOULD ALSO SUPPORT MOTION-BASED RECORDING FEATURE.

L. ALARMS SUPPORT

1. THE ALARM SUPPORT SHALL ALLOW FOR CONTINUOUS MONITORING OF THE OPERATIONAL STATUS AND EVENT-TRIGGERED ALARMS FROM SERVERS, CAMERAS AND OTHER DEVICES.
2. THE ALARM SUPPORT SHALL PROVIDE A REAL-TIME OVERVIEW OF ALARM STATUS, OR TECHNICAL PROBLEMS, WHILE ALLOWING FOR IMMEDIATE VISUAL VERIFICATION AND TROUBLESHOOTING.

M. MATRIX FUNCTIONALITY

1. THE SYSTEM SHALL INCLUDE AN INTEGRATED MATRIX SOLUTION FOR DISTRIBUTING VIDEO TO ANY COMPUTER WITH THE CLIENT VIEWER INSTALLED. A COMPUTER ON WHICH THE MATRIX-TRIGGERED IMAGES CAN BE SHOWN MUST BE KNOWN AS A MATRIX RECIPIENT.
2. THE CLIENT VIEWER SHALL PROVIDE REMOTE USERS WITH A COMPREHENSIVE SUITE OF FEATURES:
 - a. IT SHALL BE POSSIBLE TO VIEW LIVE VIDEO FROM CAMERAS ON THE SURVEILLANCE SYSTEM FROM 1 TO 100 PER VIEW.
 - b. IT SHALL BE POSSIBLE TO PLAYBACK RECORDINGS FROM CAMERAS ON THE SURVEILLANCE SYSTEM, WITH A SELECTION OF ADVANCED NAVIGATION TOOLS, INCLUDING AN INTUITIVE TIMELINE BROWSER.
 - c. IT SHALL BE POSSIBLE TO CREATE AND SWITCH BETWEEN AN UNLIMITED NUMBER OF VIEWS, EACH ABLE TO DISPLAY VIDEO FROM UP TO 100 CAMERAS FROM MULTIPLE SERVERS AT A TIME. THE SYSTEM SHALL ALLOW VIEWS TO BE CREATED WHICH ARE ONLY ACCESSIBLE TO THE USER, OR TO GROUPS OF USERS BASED ON 37 DIFFERENT LAYOUTS OPTIMIZED FOR 4:3, 4:3 PORTRAIT, 16:9 AND 16:9 PORTRAIT DISPLAY RATIOS.
 - d. IT SHALL BE POSSIBLE TO ACCESS VIEWS OF CAMERAS ON ANY PC WITH A CLIENT VIEWER APPLICATION INSTALLED.
 - e. IT SHALL BE POSSIBLE TO USE MULTIPLE SCREENS AS WELL AS FLOATING WINDOWS FOR DISPLAYING DIFFERENT VIEWS SIMULTANEOUSLY.
 - f. IT SHALL BE POSSIBLE TO QUICKLY SUBSTITUTING ONE, OR MORE OF A VIEW'S CAMERAS WITH OTHER CAMERAS.
 - g. IT SHALL BE POSSIBLE TO VIEW IMAGES FROM SEVERAL CAMERAS IN SEQUENCE IN A SINGLE CAMERA POSITION IN A VIEW – A SO CALLED CAROUSEL.
 - h. IT SHALL BE POSSIBLE TO VIEW VIDEO FROM SELECTED CAMERAS IN GREATER MAGNIFICATION AND/OR HIGHER QUALITY IN A DESIGNATED HOTSPOT.
 - i. IT SHALL BE POSSIBLE TO RECEIVE AND SEND VIDEO THROUGH THE MATRIX FUNCTIONALITY.
 - j. IT SHALL BE POSSIBLE TO INCLUDE HTML PAGES AND STATIC IMAGES (FOR EXAMPLE, MAPS, OR PHOTOS) IN VIEWS.
 - k. IT SHALL BE POSSIBLE TO CONTROL PTZ CAMERAS.
 - l. IT SHALL BE POSSIBLE TO USE DIGITAL ZOOM ON LIVE AS WELL AS RECORDED VIDEO.
 - m. IT SHALL BE POSSIBLE TO ACTIVATE MANUALLY TRIGGERED EVENTS.
 - n. IT SHALL BE POSSIBLE TO ACTIVATE EXTERNAL OUTPUTS (E. G. LIGHTS AND SIRENS).
 - o. IT SHALL BE POSSIBLE TO USE SOUND NOTIFICATIONS FOR ATTRACTING ATTENTION TO DETECTED MOTION.
 - p. IT SHALL BE POSSIBLE TO GET QUICK OVERVIEW OF SEQUENCES WITH DETECTED MOTION.
 - q. IT SHALL BE POSSIBLE TO GET QUICK OVERVIEWS OF ALERTS.
 - r. IT SHALL BE POSSIBLE TO QUICKLY SEARCH SELECTED AREAS OF VIDEO RECORDING FOR MOTION.
 - s. IT SHALL BE POSSIBLE TO SKIP GAPS DURING PLAYBACK OF RECORDINGS.
 - t. IT SHALL BE POSSIBLE TO CONFIGURE AND USE SEVERAL DIFFERENT JOYSTICKS.
 - u. IT SHALL BE POSSIBLE TO PRINT IMAGES, WITH OPTIONAL COMMENTS.
 - v. IT SHALL BE POSSIBLE TO COPY IMAGES FOR SUBSEQUENT PASTING INTO WORD PROCESSORS, EMAIL, ETC.
 - w. IT SHALL BE POSSIBLE TO EXPORT RECORDING (FOR EXAMPLE, FOR USE AS EVIDENCE) IN AVI, JPEG AND DATABASE FORMATS.
 - x. IT SHALL BE POSSIBLE TO USE PRE-CONFIGURED AS WELL AS CUSTOMIZABLE KEYBOARD SHORTCUTS TO SPEED UP COMMON ACTIONS.
 - y. IT SHALL BE POSSIBLE TO INSERT OVERLAY BUTTONS, FOR EXAMPLE, FOR ACTIVATION OF SPEAKERS, EVENTS, OUTPUTS, MOVEMENT OF CAMERAS ETC.
 - z. IT SHALL BE POSSIBLE TO USE A SEQUENCE FUNCTION THAT LISTS THUMBNAIL IMAGES REPRESENTING RECORDED SEQUENCES FROM AN INDIVIDUAL CAMERA OR ALL CAMERAS IN A VIEW.
 - aa. IT SHALL BE POSSIBLE TO USE A FORCED PLAYBACK MODE ALLOWING THE USER TO PLAYBACK RECORDED VIDEO FROM INSIDE THE 'LIVE' MODE WHILE VIEWING 'LIVE' VIDEO.
 - bb. THE CLIENT VIEWER SHALL SUPPORT THE USE OF 3-AXIS USB JOYSTICKS FOR CONTROL OF PAN, TILT, ZOOM AND AUXILIARY CAMERA FUNCTIONS.
 - cc. THE CLIENT SHOULD SUPPORT MULTIPLE LANGUAGES INCLUDING ENGLISH & HINDI LANGUAGE
 - dd. THE CLIENT VIEWER SHALL SUPPORT THE USE OF MULTIMEDIA CONTROL DEVICES, WHICH ARE CAPABLE OF EMULATING KEYSTROKES, FOR THE EFFICIENT REVIEW OF RECORDED VIDEO.
 - ee. THE CLIENT VIEWER SHALL SUPPORT THE USE OF KEYBOARD SHORTCUTS FOR CONTROL OF STANDARD FEATURES. IT SHALL ALLOW THE USER TO PROGRAM NUMERICAL KEYBOARD SHORTCUTS FOR CAMERA VIEWS. THE SHORTCUT

NUMBER SHALL BE DISPLAYED WITH THE VIEW DESCRIPTION IN THE LIVE AND PLAYBACK DISPLAYS. THE SHORTCUT SHALL ALLOW THE USER TO CHANGE VIEWS WITH 2 TO 3 KEYBOARD ENTRIES.

ff. THE CLIENT VIEWER SHALL SUPPORT GPU BASED VIDEO DECODING TO IMPROVE VIDEO RENDERING PERFORMANCE AND UP TO 75% REDUCTION IN CPU LOAD OF THE WORKSTATION RUNNING CLIENT SOFTWARE. THE USE OF GPU BASED VIDEO RENDERING SHALL ALSO MAKE CLIENT READY FOR 4K/UHD CAMERA TECHNOLOGY.

gg. VMS SYSTEM SHOULD SUPPORT TO MANAGE DEVICE PASSWORD ON ONE OR MULTIPLE DEVICES FROM WITHIN THE VMS CLIENT

hh. THE CLIENT VIEWER SHALL HAVE THE CAPABILITY TO RECEIVE MULTICAST STREAMS. THE CLIENT VIEWER SHALL HAVE THE CAPABILITY TO DETECT IF THE NETWORK BECOMES UNRELIABLE AND TO AUTOMATICALLY SWITCH TO UNICAST TO ENSURE THAT THE OPERATOR IS ABLE TO RECEIVE VIDEO.

ii. THE OPERATOR SHALL HAVE THE ABILITY TO USE DIGITAL ZOOM WHERE THE ZOOMING IS PERFORMED IN THE IMAGE ONLY ON ANY NUMBER OF CAMERAS SIMULTANEOUSLY. THIS FUNCTIONALITY SHALL BE THE DEFAULT FOR FIXED CAMERAS. THE USE OF DIGITAL ZOOM SHALL HAVE NO EFFECT ON RECORDING, OR OTHER USERS.

N. MAP FUNCTIONS

1. BUILT-IN MAP FUNCTION IN THE CLIENT VIEWER SHALL PROVIDE AN INTUITIVE OVERVIEW OF THE SYSTEM AND SHALL OFFER INTEGRATED ACCESS TO ALL SYSTEM COMPONENTS.

2. MAP FUNCTION SHALL BE ABLE TO USE STANDARD GRAPHICAL FILE FORMATS INCLUDING: JPG, GIF, PNG, TIF, ETC.

3. IT SHALL BE POSSIBLE TO USE ANY NUMBER OF LAYERED MAPS, AND IT SHALL BE POSSIBLE TO EASILY DRAG-AND-DROP AND POINT-AND-CLICK DEFINITION OF CAMERAS, SERVERS, MICROPHONES, SPEAKERS, I/O DEVICES, HOT-ZONES, AND PTZ CAMERA PRESETS.

4. HOT ZONES SHALL BE ALLOWED FOR INTUITIVE NAVIGATION BETWEEN DIFFERENT MAP LEVELS.

5. MAP FUNCTION SHALL SUPPORT INSTANT CAMERA PREVIEW WHEN MOVING THE MOUSE POINTER OVER A SPECIFIC CAMERA.

6. MAP FUNCTION SHALL SUPPORT CENTRAL OVERVIEW OF THE SURVEILLANCE SYSTEM VIA AN ALARM LIST CONTAINING ALARM INDICATORS OF HIGH, MEDIUM OR LOW PRIORITIZED ALARMS. FURTHERMORE THE ALARMS SHALL BE CATEGORIZED BY THE FOLLOWING STATES; NEW, IN PROGRESS, ON HOLD, OR CLOSED. ALARMS MUST BE POSSIBLE TO ACKNOWLEDGE BY RIGHT-CLICKING ELEMENTS ON MAPS.

O. REMOTE CLIENT VIEWER

1. THE WEB-BASED REMOTE CLIENT VIEWER SHALL OFFER LIVE VIEW OF UP TO 16 CAMERAS, INCLUDING PTZ CONTROL WITH JOYSTICK, FISHEYE (360 DEGREES) CAMERAS AND EVENT/OUTPUT ACTIVATION. THE PLAYBACK FUNCTION SHALL GIVE THE USER CONCURRENT PLAYBACK OF UP TO 16 RECORDED VIDEOS WITH DATE, ALERT SEQUENCE, OR TIME SEARCHING.

2. THE WEB-BASED REMOTE CLIENT VIEWER SHALL OFFER QUICK OVERVIEWS OF SEQUENCES WITH DETECTED MOTION.

3. THE WEB-BASED REMOTE CLIENT VIEWER SHALL BE ABLE TO GENERATE AND EXPORT EVIDENCE IN AVI (MOVIE CLIP) AND JPG (STILL IMAGE) FORMATS.

4. THE SYSTEM SHALL SUPPORT THE USE OF SEPARATE NETWORKS, VLANS, OR SWITCHES FOR CONNECTING THE CAMERAS TO THE RECORDING SERVERS PROVIDING PHYSICAL NETWORK SEPARATION FROM THE CLIENTS AND FACILITATE THE USE OF STATIC IP ADDRESSES FOR THE DEVICES.

5. THE SYSTEM SHALL SUPPORT H.264, H.265, MPEG-4 (PART 2), MPEG-4 ASP, MXPEG, AND MJPEG COMPRESSION FORMATS FOR ALL ANALOG CAMERAS CONNECTED TO ENCODERS, AND ALL IP CAMERAS CONNECTED TO THE SYSTEM.

6. THE RECORDING SERVER SHALL UTILIZE HIGH PERFORMANCE ISCSI, SCSI, SAS AND SSD DISK DRIVES FOR ONLINE RECORDING STORAGE AND SHALL ALLOW THE USE OF LOWER COST SATA DRIVES FOR THE RAID ARRAYS FOR ONLINE ARCHIVE STORAGE. USE OF ONLINE ARCHIVING SHALL ENSURE THAT DATA ALWAYS IS READILY AVAILABLE. USE OF TAPE-BACKUP SYSTEMS SHALL NOT BE ACCEPTABLE.

7. THE SYSTEM SHALL ALLOW THE FRAME RATE, BIT RATE AND RESOLUTION OF EACH CAMERA TO BE CONFIGURED INDEPENDENTLY FOR RECORDING. THE SYSTEM SHALL ALLOW THE USER TO CONFIGURE GROUPS OF CAMERAS WITH THE SAME FRAME RATE, BIT RATE AND RESOLUTION FOR EFFICIENT SET-UP OF MULTIPLE CAMERAS SIMULTANEOUSLY.

8. THE RECORDING SERVER(S) SHALL HAVE THE ABILITY TO SUPPORT MULTIPLE NETWORK INTERFACE CARDS (NIC) AND SHALL SUPPORT CONNECTION TO THE CAMERAS ON A NETWORK SEPARATE FROM THE CLIENT VIEWER, MANAGEMENT SERVER AND SYSTEM MANAGER.
9. THE RECORDING SERVER SHALL HAVE THE ABILITY TO ACCEPT THE FULL FRAME RATE SUPPLIED BY THE CAMERAS, WHILE RECORDING A LOWER FRAME RATE YET STILL SHALL MAKE THE HIGHER FRAME RATE AVAILABLE TO THE CLIENTS FOR LIVE VIEWING.
10. THE VMS SHOULD BE MANDATORY PROVIDED WITH UNLIMITED NUMBER OF CLIENT LICENSES. IN CASE OF ADDITIONAL LICENSES REQUIRED, EXTRA COST NEEDS TO BE CONSIDERED.
11. 3RD PARTY SYSTEM INTEGRATION
12. ACCESS CONTROL SHOULD BE INTEGRATED THRU VMS ACCESS CONTROL MODULE OR THRU SDK/API INTEGRATION.
13. FAS SYSTEM TO BE INTEGRATED THRU API/SDK OR THRU BACNET OVER IP PROTOCOL PLUGIN WITH VMS
14. BMS SYSTEM TO BE INTEGRATED THRU API/SDK OR THRU BACNET OVER IP PROTOCOL PLUGIN WITH VMS
15. VMS MANUFACTURER SHALL PROVIDE THEIR SDK WITHOUT ANY ADDITIONAL CHARGES (OR ANY OTHER INTEGRATION MEANS) LIBRARIES AND DOCUMENTATION) TO ENSURE A SEAMLESS INTEGRATION WITH ANY OTHER SYSTEM.

P. REMOTE MOBILE APP

1. INTEGRATED MOBILE APPLICATION TO MONITOR OVERALL CCTV SYSTEM AND FOR REQUIRED COORDINATION DURING EMERGENCY
2. MOBILE CLIENT SUPPORT NATIVE MOBILE APP FOR SMARTPHONE OR TABLET USERS, FOR EASY ACCESS TO LIVE AND PLAYBACK OF CAMERAS, AND TO ACTIVATE SYSTEM EVENTS AND OUTPUTS. ADDITIONALLY, FOR USE AS A REMOTE RECORDING DEVICE BY USING THE MOBILE DEVICE'S BUILT-IN CAMERA, WHEREBY VIDEO FROM THE DEVICE'S CAMERA IS STREAMED BACK TO THE VMS AND RECORDED LIKE A STANDARD CAMERA.
3. SUPPORT SMART CONNECT: EASY CONFIGURATION OF INTERNET ACCESS TO THE MOBILE SERVER BY AUTOMATIC CONFIGURATION OF FIREWALLS AND INTERNET ROUTERS VIA UPNP, WITH VERIFICATION OF CONFIGURATION AND OPERATION OF INTERNET CONNECTION, WITH OPTION TO EMAIL CONNECTION DETAILS TO MOBILE CLIENT USERS. INCLUDES AUTOMATIC MOBILE SERVER ON LAN VIA UPNP.
4. SHALL SUPPORT ANDROID AS WELL AS APPLE IOS SOFTWARE, WITH RESPECTIVE SMART PHONES
5. PROVIDE MOBILE CLIENT CAPABILITY FOR MOBILE DEVICE USERS TO USE THEIR MOBILE DEVICE CAMERAS AS CAMERAS IN THE VMS

TECHNICAL SPECIFICATION OF SUPPLYING OF SERVER

- 2 X INTEL XEON SILVER (3RD GEN., 2.8GHZ, 8CORE) PROCESSOR. DUAL PROCESSOR SCALABLE
- 1 X 32GB RDIMM, 3200MT/S, DUAL RANK (16 DIMM SLOTS SUPPORTS UP TO 1TB)
- 2 X 480GB SSD SATA READ INTENSIVE 6GBPS 512 2.5IN HOT-PLUG AG DRIVE, 1 DWPD (FRONT DRIVE BAYS: UP TO 8 X 3.5" SAS/SATA HDD MAX 168TB)
- IN-BUILT PERC H755 SAS FRONT RAID CONTROLLER.
- ON-BOARD BROADCOM 5720 QUAD PORT 1GB LOM
- NO DVD WRITER
- IDRAC9, ENTERPRISE 15G
- 1 X DUAL, HOT-PLUG, PSU (1+1), 1400, MIXED MODE
- WARRANTY: 3 YEARS
- WIRELESS KEYBOARD & WIRELESS MOUSE, NO MONITOR
- MS WINDOWS SERVER STANDARD 2022
- RECOMMENDED MAKES: HP/DELL/ OR EQUIVALENT

TECHNICAL SPECIFICATION OF WORKSTATION

- INTEL CORE I7-11700 OR BETTER
- 32 GB RAM
- 256GB SSD
- 1 TB SATA



- WINDOWS 10 PRO OR LATEST
- NVIDIA 4GB T400 GRAPHICS
- WIRELESS KEYBOARD & WIRELESS MOUSE, NO MONITOR
- WARRANTY: 3 YEARS
- RECOMMENDED MAKES:-HP/ DELL / LENOVO/HCL OR EQUIVALENT

TECHNICAL SPECIFICATION OF BACK-UP SERVER (NAS)

- QUAD CORE -2.1 GHZ CPU WITH AES-NI ENCRYPTION ENGINE.
- USABLE 80TB NAS STORAGE.
- 4GB DDR4 MEMORY PRE-INSTALLED, EXPANDABLE UP TO 32 GB.
- SUPERIOR SEQUENTIAL THROUGHPUT AT OVER 2,045 MB/S READING AND 656 MB/S WRITING.
- BOOST IOPS PERFORMANCE WITH M.2 NVME/SATA SSD CACHE THROUGH OPTIONAL M2D18 ADAPTER CARD.
- FOUR GIGABIT LAN PORTS (RJ-45) WITH FAILOVER AND LINK AGGREGATION SUPPORT, OPTIONAL 10GBE ADD ON CARD PROVIDES HIGH SPEED DATA TRANSFER RATE.
- SCALABLE UP TO 18 DRIVES WITH TWO EXPANSION UNIT DX517 TO MEET HIGH CAPACITY DEMANDS.

FINAL ACCEPTANCE CERTIFICATE (FAC):

FINAL ACCEPTANCE CERTIFICATE (FAC) WILL BE ISSUED AFTER SUCCESSFUL COMPLETION OF FINAL ACCEPTANCE TEST (FAT).

Section VIII: Quality Control Requirements

Supplier shall submit quality test reports as per relevant standards for the material along with the supply.

Section IX: Qualification/ Eligibility Criteria

1. Experience & Past Performance:

The bidder (manufacturer or principal of authorized representative – hereinafter referred simply as ‘the bidder’) shall have regularly for at least the last three years successfully executed similar projects involving Servers, Work Stations & Network Attached Storage (NAS) servers with the same or higher specifications of at least one number in last five years ending on 31.03.2024. At least one number of such projects executed should be in successful operation for at least one year on the date of bid opening.

2. Capability, Equipment & Manufacturing Facilities:

The bidder must have an annual capacity to execute at least one number of similar project involving Servers, Work Stations & Network Attached Storage (NAS) servers with the same or higher specifications.

3. Financial standings:

- i. The average annual financial turnover of the bidder firm (manufacturer or principal of authorized dealer) during the last three years, ending on 31.03.2024, should be minimum of Rs. 12 lakhs as per the annual report (audited balance sheet and profit & loss account) of the relevant period, duly authenticated by a chartered accountant/ cost accountant in India.
- ii. The net worth of the firm should not
 - a) be negative on ‘31.03.2024’ and also
 - b) should not have eroded by more than 30% in the last three years, ending on ‘31.03.2024’.

Section X: Tender Form

Date.....

To,
India Government Mint, Hyderabad
A Unit of Security Printing & Minting
Corporation of India Limited
(Wholly Owned by Govt. of India)
Hyderabad

Ref: Your Tender document No.6000019262 /IT dated 03.05.2025

We, the undersigned have examined the above-mentioned tender enquiry document, including amendment No. -----, dated ----- (if any), the receipt of which is hereby confirmed. We now offer to supply and deliver..... (description of goods and services) in conformity with your above referred document for the sum shown in the price schedule(s), attached herewith and made part of this tender.

If our tender is accepted, we undertake to supply the goods and perform the services as mentioned above, in accordance with the delivery schedule specified in the List of Requirements.

We further confirm that, if our tender is accepted, we shall provide you with a performance security of required amount in an acceptable form in terms of GCC clause 6, read with modification, if any, in Section V – “Special Conditions of Contract”, for due performance of the contract.

We agree to keep our tender valid for acceptance for a period up to -----, as required in the GIT clause19, read with modification, if any in Section-III – “Special Instructions to Tenderers” or for subsequently extended period, if any, agreed to by us. We also accordingly confirm to abide by this tender upto the aforesaid period and this tender may be accepted any time before the expiry of the aforesaid period. We further confirm that, until a formal contract is executed, this tender read with your written acceptance thereof within the aforesaid period shall constitute a binding contract between us.

We confirm that in case of downloaded Tender Document, we have not changed/ edited its contents. We realise that in case any such change is noticed at any stage including after the award of contract, we would be liable to action under clause 44 of the GIT.

We further understand that you are not bound to accept the lowest or any tender you may receive against your above-referred tender enquiry.

We also solemnly declare as under:

1. MSMEs Status:

Having read and understood the Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012 (as amended and revised till date), and solemnly declare the following:

a) Company /Partnership Firm /Proprietary Concern / Society/Trust / NGO/Others (Please Specify):

.....

- b) Micro/ Small / Medium Enterprise/ SSI/ Govt. Deptt. / PSU/ Others:
- c) Name of MSME Registering Body (NSIC/ DIC/ KVIC/KVIB etc.):
- d) MSME Registration no. (with copy of registration):
- e) Udyog Aadhaar Memorandum no:
- f) Whether Proprietor/ Partner belongs to SC/ ST or Women category. (Please specify names and percentage of shares held by SC/ST Partners):

2. Make in India Status:

Having read and understood the Public Procurement (Preference to Make in India PPP_MII) Order, 2017 (as amended and revised till date) and related notifications from the relevant Nodal Ministry/ Department, and solemnly declare the following:

- a) Self-Certification for category of supplier:
 - ☐ Class-I Local Supplier/
 - ☐ Class-II Local Supplier/
 - ☐ Non-Local Supplier.
- b) We also declare that
 - ☐ There is no country whose bidders have been notified as ineligible on reciprocal basis under this order for offered product, or
 - ☐ We do not belong to any Country whose bidders are notified as ineligible on reciprocal basis under this order.

3. Restrictions on procurement from bidders from a country or countries, or a class of countries under Rule 144 (xi) of the General Financial Rules 2017

Having read and understood the Order (Public Procurement No. 1) issued vide F.No.6/18/2019-PPD dated 23rd July 2020 (and its amendments if any) by Department of Expenditure, Ministry of Finance under the above provision and solemnly declare the following:

- ☐ We do not belong to any Country whose bidders are notified as ineligible under this order

4. Debarment Status:

Please state whether business dealings with you currently stand suspended/ banned by any Ministry/ Depts. of Government of India or by any State Govt:

- ☐ Yes (with period of Ban)
- ☐ No, We, solemnly declare that neither we nor any of our affiliates or subsidiaries – including subcontractors or suppliers for any part of the contract – do not stand declared ineligible/ blacklisted/ banned/ debarred by any Government Agency anywhere in the world, for participating in its tenders, under that country's laws or official regulations.



5. Penalties for false or misleading declarations:

I/we hereby confirm that the particulars given above are correct and complete and also undertake to advise any future changes to the above details. We understood that any wrong or misleading self-declaration by us would be violation of code of Ethics and would attract penalties as mentioned in this tender document, including debarment.

.....
(Signature with date)

.....
(Name and designation)

Duly authorized to sign tender for and on behalf of

.....
.....



Section XI: Price Schedule

To,
The Chief General Manager
India Government Mint,
Hyderabad-500 051.

OFFER FORM for Tender no: _____ Date of Opening Time Hours

We.....hereby certify that we are established firm in providing services for the tendered items with office at We hereby offer to provide the following services at the prices indicated below:-

Sl. no	Description	Unit of Measurement	Quantity	Unit price in ₹	GST			Total amount including GST in ₹
					IGST@ ____%	CGST@_ ____%	SGST@_ ____%	
1	Upgradation of existing CCTV System	AU	1					
Rupees in words :								

Taxation Details:

- PAN number
- Type of GST Registration (Registered, Unregistered, Composition, SEZ, RCM etc.)
- GSTIN number
- Registered Address as per GST registration and Place of Delivery for GST Purpose
- Contact Names, Nos. & email IDs for GST matters (Please mention primary and secondary contacts)

Note:

- The Bidder may prepare their own offer forms as per this pro-forma.
- No change in the pro-forma is permissible.
- No erasures or alterations in the text of the offer are permitted. Any correction made in the offer shall be Initialled by the bidder.
- This Section should not bring in any new Technical Parameter that has not been mentioned in the Technical Bid.

Bidder Name & Address:

.....
(Signature with date)

.....
.....

(Full name, designation & address of the person duly authorized sign on behalf of the tenderer)

Section XII: Vendor Details

The tenderer should furnish specific details mentioned below. In case a question/ issue does not apply to a tenderer, the same should be answered with the remark “not applicable”.

Wherever necessary and applicable, the tenderer shall enclose certified copy as documentary proof/ evidence to substantiate the corresponding statement.

In case a tenderer furnishes a wrong or misleading answer against any of the under mentioned question/ issues, its tender will be liable to be ignored.

1. Vendor/ Contractor particulars:

- (a) Name of the Company:
- (b) Corporate Identity No. (CIN):
- (c) Registration if any with SPMCIL:
- (d) Complete Postal Address:
- (e) Pin code/ ZIP code:
- (f) Telephone nos. (with country/area codes):
- (g) Fax No.: (with country/area codes):
- (h) Cell phone Nos.: (with country/area codes):
- (i) Contact persons /Designation:
- (j) Email IDs:

2. Taxation Details:

- (a) PAN number:
- (b) Type of GST Registration (Registered, Unregistered, Composition, SEZ, RCM etc.):
- (c) GSTIN number:
- (d) Registered Address as per GST registration and Place of Delivery for GST Purpose:
- (e) Contact Names, Nos. & email IDs for GST matters (Please mention primary and secondary contacts):

- ☐ We solemnly declare that our GST rating on the GST portal / Govt. official website is NOT negative / blacklisted during the last three financial years.

.....
(Signature with date)

.....

.....
(Name, address, and stamp of the tendering firm)



Section XIII: Bank Guarantee Form for EMD

BANK GUARANTEE FOR BID GUARANTEE

(ON BANK'S LETTERHEAD WITH ADHESIVE STAMP)

Ref

Date

Bank Guarantee No

To,

(Insert Name & Address of the Purchaser)

Dear Sir,

Whereas (Hereinafter called the "Tenderer") has submitted its bid numbered dated for the supply of (Hereinafter called the "tender") against 's (insert name of Purchaser) (hereinafter called as the 'Purchaser') tender enquiry No. opened on Know all persons by these presents that we of (hereinafter called the "Bank") having our registered office at are bound unto the Purchaser, in the sum of for which payment will and truly be made forthwith, on demand by the Purchaser, without demure to the said Purchaser, the Bank binds itself, its successors and assigns by these presents. Sealed with the Common Seal of the said Bank this day of 20...

The conditions of this obligation are —

- (1) If the Tenderer withdraws or amends, impairs, or derogates from the tender, in any respect within the period of validity of this tender.
- (2) If the Tenderer or anyone employed by it or acting on its behalf (whether with or without the knowledge of the Tenderer) breaches any of the provisions of the pre-bid/ Pre-contract Integrity Clause.
- (3) If the Tenderer having been notified of the acceptance of his tender by Purchaser during the period of its validity:-
 - a) Fails or refuses to furnish the performance security for the due performance of the contract.
 - b) Fails or refuses to accept/ execute the contract.

We undertake to pay Purchaser up to the above amount, upon receipt of its first written demand, without Purchaser having to substantiate its demand, provided that in its demand Purchaser will note that the amount claimed by it, is due to it owing to the occurrence of one or more or all the above conditions, specifying the occurred condition(s). We agree that the decision of the Purchaser, whether above conditions have occurred, shall be final and binding on us. This guarantee will remain in force for a period of (insert the period of validity plus 45 days, in words and figures) days after the date of (insert date of tender opening) and any demand in respect thereof should reach the Bank not later than the above date.

.....
(Signature of the authorized officer of the Bank)

.....
Name and designation of the officer

.....
Seal, name & address of the Bank and address of the Branch



Section XIV: MANUFACTURER'S AUTHORIZATION FORM

To,
India Government Mint, Hyderabad
A Unit of Security Printing & Minting
Corporation of India Limited
(Wholly Owned by Govt. of India)
Hyderabad

Dear Sirs,

Ref.: Your Tender document No..... dated.....

We..... who are proven and reputable manufacturers of
..... (name and description of the goods offered in the tender) having factories at
..... here by authorize Messrs..... (name and address of the agent)
to submit a tender, process the same further and enter into a contract with you against your requirement as
contained in the above referred tender enquiry documents for the above goods manufactured by us.

We further confirm that no supplier or firm or individual other than Messrs..... (name and
address of the above agent) is authorized to submit a tender, process the same further and enter into a
contract with you against your requirement as contained in the above referred tender enquiry documents for
the above goods manufactured by us.

We also hereby extend our full warranty, as applicable as per clause 16 of the General Conditions of Contract
read with modification, if any, in the Special Conditions of Contract for the goods and services offered for
supply by the above firm against this tender document.

Yours faithfully,

.....
.....

[Signature with date, name and designation]

for and on behalf of Messrs.....

[Name & address of the manufacturers]

Note: This letter of authorisation should be on the letter head of the manufacturing firm and should be signed
by a person competent and having the power of attorney to legally bind the manufacturer.



Section XV: Bank Guarantee Form for Performance Security

PERFORMA OF BANK GUARANTEE FOR CONTRACT PERFORMANCE

GUARANTEE BOND.

(ON BANK'S LETTERHEAD WITH ADHESIVE STAMP)

Ref.....

Date.....

Bank Guarantee No

To,
The Chief General Manager,
India Government Mint, Hyderabad

Dear Sir,

1. Against contract vide Notification for Award of the Tender No dated covering supply of..... (Hereinafter called the 'contract') entered into between the (**insert name of Purchaser**) (Herein after called as the Purchaser) and M/s. (Here in after called the 'Contractor'), this is to certify that, at the request of the Contractor, we..... (**Name of the bank**), are holding in trust in favour of the Purchaser, the amount of..... (**write the sum here in words**), to indemnify and keep indemnified the Purchaser, against any loss or damage that may be caused to, or suffered by the Purchaser, by reason of any breach by the Contractor of any of the terms and conditions of the said contract and/or in the performance thereof. We agree that the decision of the Purchaser, whether any breach of any of the terms and conditions of the said contract and/or in the performance thereof has been committed by the Contractor; and the amount of loss or damage that has been caused or suffered by the Purchaser, shall be final and binding on us, and the amount of the said loss or damage shall be paid by us, forthwith on demand and without demur to the Purchaser.
2. We..... (**name of the bank**), further agree that, the guarantee herein contained, shall remain in full force and effect, for sixty days after the complete conclusion of the contractual obligations to the complete satisfaction of both the BIDDER and the BUYER, including warranty period whichever is later, i.e. till, (hereinafter called the 'said date') and that if any claim accrues or arises against us..... (**Name of the bank**), by virtue of this guarantee before the said date, the same shall be enforceable against us..... (**name of the bank**), notwithstanding the fact that the same is enforced within six months after the said date, provided that notice of any such claim has been given to us, (**Name of the bank**), by the Purchaser, before the said date. Payment under this bond of guarantee shall be made promptly, upon our receipt of notice to that effect, from the Purchaser.



3. It is fully understood that this guarantee is effective from the date of the said contract and that we..... **(Name of the bank)**, undertake not to revoke this guarantee during its currency, without the consent in writing of the Purchaser.
4. We undertake to pay to the Purchaser, any money so demanded, notwithstanding any dispute or disputes raised by the Contractor, in any suit or proceeding pending before any Court or Tribunal, relating thereto, our liability under this present, being absolute and unequivocal. The payments so made by us under this bond, shall be a valid discharge of our liability for payment thereunder, and the Contractor shall have no claim against us, for making such payments.
5. We..... **(name of the bank)**, further agree that the Purchaser shall have the fullest liberty, without affecting in any manner our obligations hereunder, to vary any of the terms and conditions of the said contract, or to extend time of performance by the Contractor, from time to time, or to postpone for any time or form, time to time, any of the powers exercisable by the Purchaser, against the said Contractor and to for bear or enforce any of the terms and conditions relating to the said contracts and we..... **(name of the bank)**, shall not be released from our liability under this guarantee, by reason of any such variation or extension being granted to the said Contractor, or for any forbearance and/or omission on the part of the Purchaser, or any indulgence by the Purchaser towards the said Contractor, or by any other matter or thing whatsoever, which under the law relating to sureties, would, but for this provision, have the effect of so releasing us from our liability under this guarantee.
6. This guarantee will not be discharged due to the change in the constitution of the Bank or the Contractor.

.....
(Signature with date of the authorized officer of the Bank)

.....
.....
Name and designation of the officer

.....
Seal, name & address of the Bank and address of the Branch

.....
Name and designation of the officer
.....
.....

Seal name& address of the Bank and address of the Branch

Section XVI: Contract Form

Contract No.....dated.....

This is in continuation to this office' Notification of Award No..... dated

1. Name & address of the Supplier:

2. SPMCIL's Tender document No..... dated.....and subsequent Amendment No..... dated..... (If any), issued by SPMCIL

3. Supplier's Tender No..... dated.....and subsequent communication(s) No..... dated..... (If any), exchanged between the supplier and SPMCIL in connection with this tender.

4. In addition to this Contract Form, the following documents etc, which are included in the documents mentioned under paragraphs 2 and 3 above, shall also be deemed to form and be read and construed as part of this contract:

(i) General Conditions of Contract;

(ii) Special Conditions of Contract;

(iii) List of Requirements;

(iv) Technical Specifications;

(v) Quality Control Requirements;

(vi) Tender Form furnished by the supplier;

(vii) Price Schedule(s) furnished by the supplier in its tender;

(viii) Manufacturers' Authorization Form (if applicable for this tender);

(ix) SPMCIL's Notification of Award

Note: The words and expressions used in this contract shall have the same meanings as are respectively assigned to them in the conditions of contract referred to above. Further, the definitions and abbreviations incorporated under clause 0 of Section - V - 'General Conditions of Contract' of SPMCIL's Tender document shall also apply to this contract.

5. Some terms, conditions, stipulations etc. out of the above-referred documents are reproduced below for ready reference:

(i) Brief particulars of the goods and services which shall be supplied/provided by the supplier are as under:

(ii) Delivery schedule

(iii) Details of Performance Security

(iv) Quality Control

(a) Mode(s), stage(s) and place(s) of conducting inspections and tests.

(b) Designation and address of SPMCIL's inspecting officer

(v) Destination and dispatch instructions

(vi) Consignee, including port consignee, if any

(vii) Warranty clause

(viii) Payment terms

(ix) Paying authority

.....

(Signature, name and address of SPMCIL's authorized official)

For and on behalf of.....

Received and accepted this contract.....

(Signature, name and address of the supplier's executive duly authorized to sign on behalf of the supplier)

For and on behalf of.....

(Name and address of the supplier)



Section XVII: Letter of Authority for attending a Pre-Bid Conference/Bid Opening

(Refer to clause 24.2 of GIT)

To,
The Chief General Manager,
India Government Mint,
P.B. NO. 10, H.C.L. POST,
I.D.A. PHASE II, CHERLAPALLY,
HYDERABAD – 500 051. (TELANGANA)

Subject: Authorization for attending bid opening on in the Tender of SUPPLY ,INSTALLATION ,TESTING & COMMISSIONING FOR UPGRADATION OF EXISTING CCTV SURVEILLANCE SYSTEM FOR IGMH.

Following persons are hereby authorized to attend the bid opening for the tender mentioned above on behalf of _____ (Bidder) in order of preference given below.

Order of Preference	Name	Specimen Signature
I.		
II.		
Alternate Representative		
Signature of bidder or Officer authorized to sign the bid Documents on behalf of the bidder.		

Note:

1. Maximum of two representatives will be permitted to attend pre-bid conference/ bid opening. In cases where it is restricted to one, first named representative will be allowed to attend. Alternate representative will be permitted when regular representatives are not able to attend.
2. In case of pre-bid conference, self-attested copy of proof of purchase of Bid documents, in the name of the bidder must be enclosed with this authorization, without which entry would be refused. Bid documents would be available for sale at the site also.
3. Permission for entry to the hall where even is held may be refused in case authorization as prescribed above is not produced.

Section XVIII: Proforma of Bills for Payments

(Refer to clause 22.6 of GCC)

Name and Address of the Firm.....
 Bill No..... Dated.....
 Purchase order.....No.....Dated.....
 Name and address of the consignee.....

S.No	Authority for purchase	Description of Stores	Number or quantity	Rate Rs. P	Price per Rs. P	Amount
Total						

1. GST/ CGST/ SGST/ UTGST/ IGST Amount
2. Freight (if applicable)
3. Excise Duty (if applicable)
4. Packing and Forwarding charges (if applicable)
5. Others (Please specify)
6. PVC Amount (with calculation sheet enclosed)
7. (-) deduction/Discount
8. Net amount payable (in words Rs.)

Dispatch detail RR No. other proof of despatch.....

Dated..... (Enclosed)

Inspection Certificate No.....Dated..... (Enclosed)

Place and Date

Received Rs.....

(Rupees).....

We solemnly certify that:

- a. Goods and Services Tax (GST) charged on this Bill is not more than what is payable under the provision of the relevant Act or the Rules made there under.



- b. Goods on which GST has been charged have not been exempted under the GST Act or the rules made there under and the charges on account of GST on these goods are correct under the provisions of that Act or the Rules made there under.
- c. We are registered with above indicated GSTIN as dealer in the State where in their Billing address is located for the purpose of GST.
- d. This bill form / invoice is not a replacement for the GST invoice. The proper GST invoice as per requirements of GST rules has been sent to the Purchaser as and when deliveries are made to the consignee.
- e. That the payment being claimed is strictly in terms of the contract and all the obligations on the part of the supplier for claiming that payment has been fulfilled as required under the contract.

Revenue stamp

Signature and of Stamp Supplier



Section XIX: NEFT Mandate

(Refer to clause 22.2 of GCC)

From: M/s.

Date:

To:

The Chief General Manager,
India Government Mint,
P.B. NO. 10, H.C.L. POST,
I.D.A. PHASE II, CHERLAPALLY,
HYDERABAD – 500 051. (TELANGANA)

Sub: NEFT payments

We refer to RBI's NEFT scheme. Our mandate SPMCIL for making payments to us through the above scheme to our under noted account.

NATIONAL ELECTRONIC FUNDS TRANSFER MANDATE FORM

1.	Name of City	
2.	Bank Code No.	
3.	Branch Code No.	
4.	Bank's Name	
5.	Branch Address	
6.	Branch Telephone /Fax No.	
7.	Supplier's Account No.	
8.	Types of Account	
9.	IFSC code for NEFT	
10.	IFSC code for RTGS	
11.	Supplier's name as per Account	
12.	MICR Code no.	

In Lieu of Bank Certificate to be obtained as under, please attach a bank cancelled cheque or photocopy of a cheque or front page of your bank passbook issued by your bank for verification of the above particulars.



I hereby declare that the particulars given above are correct and complete. If the transaction is delayed or not effected at all for reasons of incomplete or incorrect information, I would not hold the user institution responsible. I have read the option intimation letter and agree to discharge responsibility expected of me as a participant under the scheme.

Date

Signature of the Customer

Certified that the above particulars are correct as per our record.

Stamp and
Signature of authorized
official of the bank

Section XX: INTEGRITY PACT

(Ref Para 44.3 of GIT)

(To be signed on Plain Paper)

-----Not Applicable-----