

## TENDER NOTICE

### PROCUREMENT OF CCTV SYSTEM FOR SURVEILLANCE, MONITORING AND SECURITY FOR THE NATIONAL ASSEMBLY OF PAKISTAN

1. National Assembly of Pakistan intends to procure CCTV System For Surveillance, Monitoring And Security for the National Assembly Of Pakistan.
2. Proposals are invited from reputable Firms:
  - a. having valid incorporation certificate with SECP/Registrar of Firms,
  - b. required experience as mentioned in the Tender document,
  - c. registered with Income Tax and Sales Tax Departments and
  - d. who are on the Active Taxpayers list of the Federal Board of Revenue.
3. Tender documents can be downloaded from the National Assembly of Pakistan website ([www.na.gov.pk](http://www.na.gov.pk)) and PPRA's website ([www.ppra.gov.pk](http://www.ppra.gov.pk)) free of cost or the hard copy is available s the office of National Assembly Secretariat Islamabad during working hours and working days on written request of firm's letterhead.
4. Pre-bid Conference will be held **25th November, 2021 at 1100 hours** at the National Assembly Islamabad. Due to COVID-19, only one authorized representative will attend the pre-proposal meeting as well as proposal opening event.
5. Procurement will be carried out by adopting the “Single Stage Two Envelopes ” procedure. The bid shall comprise a single package containing two separate envelopes. Each envelope shall contain separately the financial proposal and the technical proposal. The envelopes shall be marked as “FINANCIAL PROPOSAL” and “TECHNICAL PROPOSAL” in bold and legible letters to avoid confusion. The Proposal complete in all respects, in accordance with the instructions provided in the Tender document, in sealed envelopes should reach on or before **3rd of December, 2021 at 1100 hours** in National Assembly ,Islamabad and be clearly marked “Procurement of CCTV System For Surveillance, Monitoring And Security for the National Assembly Of Pakistan ”
6. Bidders are required to submit their proposals strictly in accordance to Instructions to Bidders in the Tender Document.
7. Proposals must be prepared in hard book binding form to deny the possibility of addition or removal of page(s).
8. The technical proposals shall be opened on the same day at **11:30 hours**, whereas the financial proposals of the technically qualified bidders shall be opened after finalization of technical evaluation. Other details are provided in the Tender Document.
9. All the applicable Federal, Provincial & Local taxes and duties etc must be considered while preparing the financial proposals. All these taxes are required to be built-in in the quoted rates and GST to be mentioned separately.
10. Bidders who provide unsubstantiated and/or incorrect information are liable to legal action and/or disqualification as per PPRA rules and regulations.
11. The National Assembly Secretariat reserves the right to reject all the proposals as per PPRA Rules.

Deputy Secretary (Admin)  
National Assembly of Pakistan,  
Constitution Ave, Islamabad,  
Phone: 051-9207770

Email : [daheri786@gmail.com](mailto:daheri786@gmail.com) , Website : [www.na.gov.pk](http://www.na.gov.pk)



(TENDER DOCUMENT)

FOR

PROCUREMENT OF CCTV SYSTEM FOR SURVEILLANCE,  
MONITORING AND SECURITY FOR THE NATIONAL ASSEMBLY OF  
PAKISTAN

National Assembly of Pakistan,  
Constitution Ave,  
Islamabad, Islamabad Capital Territory  
Phone: 051-9207770

---

**Table of Content**

<b>INVITATION TO THE BIDDERS</b>	<b>5</b>
<b>INSTRUCTIONS TO THE BIDDERS</b>	<b>6</b>
Scope of Work	6
Source of Funds	6
ELIGIBLE BIDDERS	6
COST OF TENDERING	6
CLARIFICATIONS OF TENDERING DOCUMENTS	6
AMENDMENT OF TENDER DOCUMENT	7
LANGUAGE OF DOCUMENTS	7
PRICE	7
BID SECURITY / EARNEST MONEY	7
VALIDITY OF BIDS	8
CLARIFICATIONS / CORRECTIONS OF BID	8
RESPONSIVENESS OF BIDS	8
DEADLINE FOR SUBMISSION OF BID DOCUMENTS	9
OPENING OF BID	9
<b>EVALUATION OF BIDS</b>	<b>10</b>
Evaluation of Technical Proposals:	10
Evaluation of Financial Proposals:	10
Award of Contract:	10
<b>TECHNICAL EVALUATION CRITERIA</b>	<b>12</b>
Business Email (A)	12
Productivity and Collaboration Applications (B)	13
<b>PROCESS TO BE CONFIDENTIAL</b>	<b>18</b>
<b>AWARD CRITERIA PROCURING AGENCY'S RIGHT</b>	<b>18</b>
<b>REQUIREMENT / FORMAT OF BID</b>	<b>19</b>
<b>FIRM'S RESPONSIBILITIES</b>	<b>19</b>
<b>TIME FOR COMPLETION</b>	<b>19</b>
<b>SUPPORT/ REPLACEMENT WARRANTY</b>	<b>19</b>
<b>TERMS OF PAYMENT</b>	<b>19</b>
<b>DEFAULT BY THE FIRM/SUCCESSFUL BIDDER</b>	<b>20</b>
<b>FORCE MAJEURE</b>	<b>20</b>
<b>WARRANTY/CONTINUITY OF SERVICE</b>	<b>21</b>
<b>MAINTENANCE</b>	<b>21</b>
<b>Corrupt and Fraudulent Practices</b>	<b>22</b>

<b>General Conditions of Contract</b>	<b>24</b>
General Provisions	24
Commencement, Completion, Modification and Termination of Contract -	28
Obligations of the Consultant	33
<b>ANNEX-A</b>	<b>39</b>
<b>Background, Objectives, Scope of Work and Technical Details of Office Communication And Productivity Suite Of Applications for the National Assembly of Pakistan</b>	<b>39</b>
Background and Introduction of the Procuring Agency	39
CONSTITUTIONAL ROLE	39
LEGISLATIVE PROCEDURE	39
National Assembly Strategic Plan 2019-23	41
Digital Transformation of the National Assembly Secretariat	41
Objective(s) of the Assignment	42
Required Items, Specifications and Bill of Quantity	42
Installation, Configuration and Commissioning:	58
Training:	58
Repairs, Trouble-Shooting and Warranty replacement:	58
<b>ANNEX-B</b>	<b>59</b>
FORM OF FINANCIAL BID	59
<b>Annex-C</b>	<b>86</b>
COMPLIANCE CERTIFICATE	86
General or special Conditions	86
<b>ANNEX-D</b>	<b>87</b>
NON-BLACKLISTING DECLARATION	87
<b>ANNEX-E</b>	<b>88</b>
UNDERTAKING / CERTIFICATE	88
<b>ANNEX-F</b>	<b>89</b>
FORM OF CONTRACT FOR PROCUREMENT OF CCTV SYSTEM FOR SURVEILLANCE, MONITORING AND SECURITY FOR THE NATIONAL ASSEMBLY OF PAKISTAN	89

## 1. INVITATION TO THE BIDDERS

- 1.1. National Assembly of Pakistan, hereafter referred to as “Procuring Agency” , desires to seek bids from well-reputed, experienced firms for the Procurement of CCTV System For Surveillance, Monitoring And Security for the National Assembly Of Pakistan as specified in the Annex-A.
- 1.2. Bidding shall be conducted under Rule 36 (b) of PPRA Rules 2004 “Single stage – two envelope procedure” The bid shall comprise a single package containing two separate envelopes. Each envelope shall contain separately the financial proposal and the technical proposal. The envelopes shall be marked as “FINANCIAL PROPOSAL” and “TECHNICAL PROPOSAL” in bold and legible letters to avoid confusion.
- 1.3. Important terms and conditions to be adhered by all bidders are attached as Annex-C.
- 1.4. Subscription, Post installation maintenance agreement till end of June 2023, will be signed with the successful bidder. Specimen Contract Agreement attached at Annex-F
- 1.5. Queries related to the tender document shall be directed to the undersigned at least (05) working days ahead of the closing date.

Deputy Secretary (Admin)  
National Assembly of Pakistan,  
Constitution Ave, Islamabad,  
Phone: 051-9207770  
Email : daheri786@gmail.com , Website : www.na.gov.pk

## 2. INSTRUCTIONS TO THE BIDDERS

### 2.1. Scope of Work

- A. Scope of Work for the Procurement of CCTV System For Surveillance, Monitoring And Security for the National Assembly of Pakistan is given in Annex-A of this tender document.
- B. Bidders are required to follow the required specification as detailed in the Annex-A.

### 2.2. Source of Funds

The National Assembly of Pakistan will make payment from its allocated budget.

### 2.3. ELIGIBLE BIDDERS

The bids, which meet the following minimum requisite criteria, shall be declared eligible for further evaluation as per [TECHNICAL EVALUATION CRITERIA](#) (clause 4 of the Tender document) and subject to fulfilment of the requirements as detailed in Annex-A of this Tender document. Requisite documents must be attached in respect thereof. Bidders shall meet the following minimum eligibility criteria and shall provide the following:

- A. Application letter of Intent for participation in the tendering process.
- B. Valid Company Registration Certificate with SECP or Registrar of Firms etc.,
- C. Copy of Income Tax / Sales Tax Registration.
- D. Authorized Distributor/System Integrator and Manufacturing Authorization Letter (MAL) from the Principal Only (Valid letters attached).
- E. Office details at Islamabad / Rawalpindi, and other cities (if applicable) with Phone Numbers / Addresses
- F. Affidavit on Judicial / Stamp Paper of Rs. 100/- or above duly attested by Notary Public that the firm is not black listed by any government / semi government Department as per Specimen at Annex-D.
- G. Affidavit on Judicial / Stamp Paper of Rs. 100/- or above, duly attested by Notary Public that the firm would supply / install and maintain Brand New / Original equipment as a part of the Visitor Management System for the National Assembly. Non compliance to the same may result in immediate termination of supply / work order leading to forfeiture of earnest money / performance security and blacklisting of firms as per Specimen at Annex-E. The Undertaking and Evidence shall be presented that the quoted Goods are genuine, brand new, non- refurbished, un-altered in any way, of the most recent / current model, imported through proper channel, and incorporate all recent improvements in design and materials
- H. Power of Attorney if an authorized representative is appointed
- I. Annual turnover of last five years

#### **2.4. COST OF TENDERING**

The bidders shall bear all costs associated with the preparation and submission of its documents, while the Procuring Agency, in no case, shall be responsible or liable for those costs, regardless of the conduct or outcome of the tendering process.

#### **2.5. CLARIFICATIONS OF TENDERING DOCUMENTS**

A prospective bidder requiring any clarification(s) may notify the Procuring Agency or an Officer authorized on its behalf in writing. The Procuring Agency or concerned Officer authorized on its behalf will respond to any request for clarification, which is received well before (approximately 05 working days or more) to the deadline set for the submission of bids. Copies of response by the Procuring Agency to such clarification will be forwarded to prospective bidders (if not already clarified in the tender document or deemed necessary for the bidders).

#### **2.6. AMENDMENT OF TENDER DOCUMENT**

- A. At any time prior to the deadline for submission of bids, the Procuring Agency may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective bidder, modify the tender document by issuing an addendum.
- B. Any addendum thus issued shall form an eternal part of the tender document. To afford bidder's a reasonable time frame in which to take an addendum into account in preparing their bids, the Procuring Agency may at its discretion extend the deadline for submission of bids.

#### **2.7. LANGUAGE OF DOCUMENTS**

- A. Bid Documents and related correspondence will always be in the English language.
- B. The bid should have a covering letter on printed letterhead of the firm. All pages of the bid shall be initiated/signed and shall bear the official seal of the person(s) authorized to sign/endorse.
- C. All the relevant technical literature in English Language should be attached with the bid.

#### **2.8. PRICE**

- A. Price/bid offer should be quoted in Pak Rupees.
- B. The price/bid offer quoted should be firm, final and clearly written/typed without any ambiguity.
- C. The bid price should include all the government taxes, as per prevailing taxation rates of provincial/federal governments etc.
- D. The price/bid offer shall be entered for the whole duration of one-year (12 x months from the date of opening of the bid).
- E. The bidder shall deem to have obtained all related information as to the requirements thereto which may affect the bid offer/price if required.

#### **2.9. BID SECURITY / EARNEST MONEY**

- A. The bidder shall furnish a bid security/ earnest money equivalent to PKR 700,000 in the form of a Bank/Demand Draft, Pay Order in favour of the National Assembly Secretariat, Islamabad.

- B. Any bid not accompanied by an acceptable bid security shall stand liable to be rejected by the Procuring Agency as non-responsive.
- C. The bid securities/earnest money of the unsuccessful bidders will be returned upon award of contract to the successful bidder or on expiry of validity of bid security whichever is earlier. The bid securities of bidders, can be returned earlier if supported by a formal request on the bid letterhead with signed.
- D. The term validity of the bid security shall be 180 days
- E. The bid security of the successful bidder will be returned only when the bidder furnishes the required 10% Performance guarantee and upon supply/installation of required system.
- F. The bid security/earnest money may be forfeited/confiscated:
  - a. If a bidder withdraws his bid during the period of bid validity.
  - b. If the bid has overwriting, errors or mistakes in the bid price.
  - c. In the case of a successful bidder, if he fails to furnish the required performance security or fails to supply/install/test/successful operation the required Procurement of CCTV System For Surveillance, Monitoring And Security for the National Assembly of Pakistan as per technical specifications.
  - d. If the bidder fails to meet the requirements in the scope of work and Annex-A of the Tender document
  - e. If the bidder fails to fulfill the mandatory requirements upon which he has given certificates/affidavits etc.

#### **2.10. VALIDITY OF BIDS**

All bids shall remain valid for (06 x months) from the date of opening of bids/financial proposals.

#### **2.11. CLARIFICATIONS / CORRECTIONS OF BID**

- A. To assist in the examination, evaluation and comparison of the bids the committee at its discretion may ask the bidder for a clarification of its bid. The request for clarification and the response shall be in writing and no change in the price or substance of the bid shall be sought, offered or permitted.
- B. Arithmetical errors will be rectified on the following basis:
  - a. If there is a discrepancy between unit price and total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and total price shall be corrected. If there is a discrepancy between the words and figures the amount in words shall prevail. If there is a mistake in addition/totaling that can be corrected.
  - b. If the bidder does not accept the corrected amount of bid, his bid will be rejected and his bid security will be forfeited.

#### **2.12. RESPONSIVENESS OF BIDS**

- A. The valid bid security / earnest is submitted.
- B. The bid is valid till the required period.
- C. The bid prices are firm during its validity and inclusive of all taxes, duties etc.
- D. Compliance to all important terms and conditions of this tender document on specified formats.
- E. The bidder is eligible for tendering and possesses the requisite experience.
- F. The bid does not deviate from basic requirements.



- G. The bidder must attach valid bank statements of 06 x months showing financial stability of the firm along with Banker's Certificate for maintenance of the account.
- H. Official Letter in favour of the bidder from the Company (Principal) who are the original providers and service developers for cloud services, office productivity tools and applications suite similar to the requirements of the Procuring Agency (Valid letters attached).
- I. The bidder submitted all mandatory/requisite documents as mentioned in the tender document.
- J. The bid is generally in order etc.

**2.13. DEADLINE FOR SUBMISSION OF BID DOCUMENTS**

- A. The bids shall be delivered in person or sent by Registered mail / Courier service, which should reach the office of Deputy Secretary (Admin), National Assembly Secretariat, Islamabad, on or before 11:00 am on 3rd of December, 2021 or as specified in the advertisement / web sites of PPRA / Procuring Agency.
- B. Bidding shall be conducted under Rule 36 (b) of PPRA Rules 2004 "Single stage – two envelope procedure" The bid shall comprise a single package containing two separate envelopes. Each envelope shall contain separately the financial proposal and the technical proposal. The envelopes shall be marked as "FINANCIAL PROPOSAL" and "TECHNICAL PROPOSAL" in bold and legible letters to avoid confusion.
- C. Bids should be submitted in sealed envelopes containing necessary information regarding tender notice and warning message "DO NOT OPEN BEFORE 1130 hours on 3rd of December, 2021".
- D. Opened, e-mailed or faxed bids will not be accepted.
- E. Any bid received by the Procuring Agency after the date and time of tender opening will be returned as unopened to the sender / bidder.

**2.14. OPENING OF BID**

- A. The Procuring Agency's relevant committee will open all bids at 1130 hrs, on the 3rd of December, 2021 in the presence of bidder's representatives who choose to be present at the National Assembly Secretariat.
- B. The relevant committee will resolve any issue raised by the bidders, on the spot. Any issue related to the proceeding after the same have concluded, shall not be entertained verbally or in writing.
- C. The Procuring Agency reserves the right to reject any one or all bids/proposals as per PPRA rules.

### 3. EVALUATION OF BIDS

- A. A bid determined as non-responsive will be rejected and will not subsequently be made responsive by the bidder by correction of the non-conformity.
- B. The Procurement Committee of the Procuring Agency will evaluate the submitted bids.
- C. The Submitted bids and proposals will be examined in detail whether the bidder complies with the technical specifications as provided in this tender document and meets the requirements. For this purpose, the bidder's data will be compared with the tender document eligibility and evaluation criteria along with visits to bidder facilities/offices for physical inspection.
- D. It will be examined in detail whether the documents comply with the conditions of the tender document. It is expected that no major deviation/stipulation shall be taken by the bidder.
- E. Any minor informality or non-conformity or irregularity in the documents, which does not constitute a material deviation, may be waived by Procuring Agency, provided such waiver does not prejudice or affect the relative ranking of any other bidder.

#### F. Evaluation of Technical Proposals:

The Procurement committee of the Procuring Agency shall evaluate the Technical Proposals on the basis of their responsiveness to the technical evaluation criteria and points system specified in the Clause 4 of this tender document. Each responsive Proposal will be given a technical score as per the evaluation criteria specified. A Proposal shall be rejected at this stage if it fails to achieve the minimum qualifying technical score of Seventy percent (70%).

#### G. Evaluation of Financial Proposals:

In accordance with PPRA Rules to qualify for financial evaluation, the bidders must secure 70% points in Technical Evaluation.

A qualified bidder after scoring 70% points in the Technical Evaluation and who offers the lowest financial bid will be qualified for award of the contract.

According to the Clause 30, sub-clause (2) of PPRA Rules, 2004, the following shall be observed while evaluating the financial bids:

*“For the purposes of comparison of bids quoted in different currencies, the price shall be converted into a single currency specified in the bidding documents. The rate of exchange shall be the selling rate, prevailing on the date of opening of bids specified in the bidding documents, as notified by the State Bank of Pakistan on that day.”*

#### H. Award of Contract:

- 01. The contract will be awarded to the most advantageous bidder in pursuance of Clause 2 (h) (i) & (ii) of PPRA Rules 2004(as amended 2020) provided that; such bidders have been determined to be eligible as per the mandatory requirement and score 70% or higher in the technical evaluation and provide lowest financial cost.
- 02. The selected bidder will have to furnish a performance security @ 10% of total bid price valid for the period (i.e, 36 x months).

03. The Procuring Agency reserves the right to accept or reject any submitted bid, as per PPRA rules and to annul the tendering process and reject all bids, at any time prior to award of order, without thereby incurring any liability to the affected bidders or any obligation to inform the affected bidders of the grounds for the Procuring Agency's action.

#### 4. TECHNICAL EVALUATION CRITERIA

All responsive and eligible Bids/Proposals submitted by bidders/firms fulfilling all the mandatory criteria laid down in the tender document shall be considered for Technical Evaluation. The Technical Evaluation of responsive and eligible bids/proposals shall be carried out using the following criteria:

S. No.	Item	Score	Criteria	Proof	Response of Bidder	
					YES	NO
1	Firms must have valid experience of providing and installing CCTV SYSTEM FOR SURVEILLANCE, MONITORING AND SECURITY to at least ten (10) public / private sector organizations.	10	Full Score if available. Zero score otherwise	Documentary Evidence		
2	Copy of Valid Registration with FBT with valid Registration of General Sales Tax (GST) & National Tax Number (NTN)	10	Full Score if available. Zero score otherwise			
3	Office details at Islamabad / Rawalpindi, and other cities (if applicable) with Phone Numbers / Addresses.	10	Full Score if available. Zero score otherwise			
4	Firms must attach valid 3 x months bank statements along with Certificates from its Banker regarding maintenance of the account of the firm.	10	Full Score if available. Zero score otherwise			
5	Authorization of the principal / manufacturer letter	20	Full Score if available. Zero score otherwise			
6	Affidavit on Judicial / Stamp Paper of Rs. 100/- or above duly attested by Notary Public that the firm is not black listed by any government / semi government Department as per Specimen at Annex-C.	10	Full Score if available. Zero score otherwise			

7	Undertaking and Evidence that the quoted Goods are genuine, brand new, non- refurbished, un-altered in any way, of the most recent / current model, imported through proper channel and not through any grey channels, and incorporate all recent improvements in design and materials	10	Full Score if available. Zero score otherwise			
8	Technical Brochures / Literature	10	Full Score if available. Zero score otherwise			
9	Details of Warranty and After-Sale Service	10	Full Score if available. Zero score otherwise			
10	List of firm's major international and national clientele	10	Full Score if available. Zero score otherwise			
11	Annual turnover of last five years	10	Full Score if available. Zero score otherwise			
<b>TOTAL</b>		120				

TOTAL TECHNICAL SCORE= 120

MINIMUM SCORE FOR TECHNICAL QUALIFICATION is 70% of the TOTAL TECHNICAL SCORE

MINIMUM SCORE FOR TECHNICAL QUALIFICATION=70% of 120=84

**Notes :**

- A. Bidder's response to an evaluation with YES, represented with 'Y' will receive full specified score against an evaluation point as specified in the evaluation criteria table above
- B. Bidder's response to an evaluation with NO, represented with 'N' will receive ZERO score against an evaluation point as specified in the evaluation criteria table above

- C. Bidder is wholly responsible to install / configure the complete Visitor Management System at the National Assembly Secretariat and the cost will be borne by the bidder.
- D. Minimum passing marks for technical qualification is 70% besides compliance of all mandatory clauses.

The Technical Evaluation of responsive bids shall be carried out as per the Clause-3 of this tender document.

#### **5. PROCESS TO BE CONFIDENTIAL**

- A. No bidder shall contact the Procuring Agency on any matter relating to its tendering process from the time of opening to the time of tendering announcement.
- B. Any effort by a bidder to influence the Procuring Agency in the evaluation, comparison or selection decision may result in the rejection of its bid.

#### **6. AWARD CRITERIA PROCURING AGENCY'S RIGHT**

- A. The contract will be awarded to the most advantageous bidder in pursuance of Clause 2 (h) (i) & (ii) of PPRA Rules 2004(as amended 2020) provided that; such bidders have been determined to be technically qualified to satisfactorily perform the contract. The selected bidder will have to furnish a performance security @ 10% of total bid price valid for the warranty period (i.e, 36 x months).
- B. The Procuring Agency reserves the right to accept or reject any submitted bid, as per PPRA rules and to annul the tendering process and reject all bids, at any time prior to award of order, without thereby incurring any liability to the affected bidders or any obligation to inform the affected bidders of the grounds for the Procuring Agency's action.

#### **7. REQUIREMENT / FORMAT OF BID**

All bidders shall quote their rates along with PKR 645,000 as Bid Security / Earnest Money of the total bid price for One Year (12 months) starting from the date of Bid Opening in the form of a Pay Order / Demand Draft as per this Tender Document requirement / obligations.

#### **8. FIRM'S RESPONSIBILITIES**

- A. The successful bidder shall supply/install/deploy the CCTV System For Surveillance, Monitoring And Security for the National Assembly of Pakistan in accordance with the supply / work order at the National Assembly Secretariat Islamabad.
- B. The firm shall not subcontract the supply / work order.
- C. The firm shall fulfil the scope of work specified in the tender document
- D. The firm shall fulfil the requirements and comply with all instructions given in the tender document and its annexures.

#### **9. TIME FOR COMPLETION**

- A. The bidder shall deliver / install and configure the required CCTV System For Surveillance, Monitoring And Security for the National Assembly of Pakistan as per demand within 04 x Months time from the date of issuance of supply / work order, and submit Bill along with all relevant documents.
- B. Late delivery / delay in Completion of Work:

If the successful bidder fails to supply / install the requisite system within the time for completion, the successful bidder's liability to the Procuring Agency for such failure shall be to pay @ 0.5% per week subject to a maximum of 10% of the total bid value for which he fails to complete the works.

#### 10. SUPPORT/ REPLACEMENT WARRANTY

The successful bidder shall be 36x months of replacement warranty to the Procuring Agency without incurring any additional cost.

#### 11. TERMS OF PAYMENT

- A. Relevant payment of the supply / work order shall only be payable to the firm upon successful delivery / installation / testing / commissioning of the System as per supply / work order duly supported by the final Acceptance Certificate(s) from Procuring Agency.
- B. All the payment shall be made through a crossed cheque in the Pak Rupees
- C. Taxes will be deducted as per government rules at the time of payment
- D. The Payments shall be done according to the following payment Schedule:

Payment No	Deliverables	Percentage of Total Payment
1	Inception Report	15%
2	Supply and installation of Outdoor Cameras and accessories	25%
3	Supply and installation of Indoor (In-building) Cameras and accessories	25%
4	Supply and installation of Storage	12.5%
5	Supply of media walls for camera monitoring	12.5%
6	Training of Users specified by the Procuring Agency	10%
<b>Total</b>		<b>100%</b>

#### 12. DEFAULT BY THE FIRM/SUCCESSFUL BIDDER

- A. If the firm fails to supply / install the required system / refuses or fails to comply with a valid instruction of the Procuring Agency, the Procuring Agency may give notice and stating the DEFAULT.
- B. If the firm has not taken all practicable steps to remedy the default within 07 working days (gazetted holidays or circumstances under this tender documents are excluded) after receipt of Procuring Agency notice, Procuring Agency may cancel the order within next 07 x days (gazetted holidays or circumstances under this tender documents are excluded).

- C. If the firm, even thereafter, does not comply with the valid instructions of the Procuring Agency, the performance security / earnest money will be confiscated, leading further towards Blacklisting of the Firm.

### **13. FORCE MAJEURE**

- A. Force majeure shall mean any event, act or other circumstances not being an event, act or circumstance under the control of the Procuring Agency or of the Firm i.e, Earthquake, Flood, or any other Severe Climatic circumstances. Non availability of *CCTV SYSTEM FOR SURVEILLANCE, MONITORING AND SECURITY FOR THE NATIONAL ASSEMBLY OF PAKISTAN* or any other event leads towards clear negligence of the Firm shall not constitute Force majeure.
- B. If by reasons of Force Majeure, the required system cannot be delivered, installed / configured by the due delivery date, then the delivery date may be extended appropriately by the Procuring Agency keeping in view all the circumstances and requirements.
- C. The firm shall not be liable for liquidated damages, forfeiture of its Performance Security, blacklisting for future tenders, termination for default, if and to the extent of his failure / delay in performance /discharge of obligations is the result of an event of Force Majeure.
- D. If a Force Majeure situation arises, the Firm shall, by written notice served on the Procuring Agency, indicate such condition and the cause thereof. Unless otherwise directed by the Procuring Agency in writing, the firm shall continue to perform under the supply / work order as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.

### **14. WARRANTY/CONTINUITY OF SERVICE**

- A. The successful bidder shall ensure the continuity of services to all the specified users by the Procuring Agency throughout the duration of contract.

### **15. MAINTENANCE**

- A. The successful bidder will provide effective guidance with respect to the maintenance use of the *CCTV SYSTEM FOR SURVEILLANCE, MONITORING AND SECURITY FOR THE NATIONAL ASSEMBLY OF PAKISTAN*, its allied modules as may reasonably be requested by the Procuring Agency to relevant technical staff for the complete operation of the *CCTV SYSTEM FOR SURVEILLANCE, MONITORING AND SECURITY FOR THE NATIONAL ASSEMBLY OF PAKISTAN*, and its related modules etc. at Procuring Agency premises.
- B. The successful bidder firm shall deliver a detailed user's manual with instructions both in Urdu and English about the use of major features of the *CCTV SYSTEM FOR SURVEILLANCE, MONITORING AND SECURITY FOR THE NATIONAL ASSEMBLY OF PAKISTAN*
- C. The successful bidder firm will provide any support services necessary to ensure the Procuring Agency's continued use of the *CCTV SYSTEM FOR SURVEILLANCE, MONITORING AND SECURITY FOR THE NATIONAL ASSEMBLY OF PAKISTAN*



## **16. Corrupt and Fraudulent Practices**

Corrupt and fraudulent practices” in respect of procurement process, shall be either one or any combination of the practices including,-

- I. “coercive practices” which means any impairing or harming or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence the actions of a party to achieve a wrongful gain or to cause a wrongful loss to another party;
- II. “collusive practices” which means any arrangement between two or more parties to the procurement process designed to stifle open competition for any wrongful gain, and to establish prices at artificial, non-competitive levels;
- III. “corrupt practices” which means the offering, giving, receiving or soliciting, directly or indirectly, of anything of value to influence the acts of another party for wrongful gain;
- IV. “fraudulent practices” which means any act or omission, including a misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain a financial or other benefit or to avoid an obligation; and
- V. “obstructive practices” which means harming or threatening to harm, directly or indirectly, persons to influence their participation in a procurement process, or affect the execution of a contract;”

### **A. Blacklisting & Debarment:**

Meaning of Blacklisted” means a bidder that is declared by the Authority untrustworthy after establishing the fact that the bidder was found involved in any corrupt and fraudulent practice or practices; or if the bidder is declared incapable by the Authority due to its established performance failure during the execution of the contract; or if the bidder deviates from its prior commitment or declaration made regarding the bid or proposal submitted by the bidder.”

### **B. Substantial Requirements & Procedure for Blacklisting & Debarment:**

(1) The procuring agency shall devise a comprehensive mechanism for blacklisting and debarment of bidders for a specified time in accordance with regulations made by the Authority, and the bidder or the bidders shall be declared as-

- (a) blacklisted and henceforth cross debarred for participation in any public procurement or disposal proceedings for the period of not more than ten years, if corrupt and fraudulent

practice as defined in these rules is established against the bidder or the bidders in pursuance of blacklisting proceedings;

- (b) blacklisted and henceforth cross debarred for participation in respective category of public procurement or disposal proceedings for a period of not more than three years, if the bidder fails to perform his contractual obligations during the execution of contract or breaches the contract due to his capacity and capability to perform or otherwise. However, procuring agency shall initiate such blacklisting or debarment proceedings after exhausting the forum of arbitration, provided that such provision exists in the conditions of contract, and if such failure or breach is covered in the respective dispute settlement clauses of the contract, and
- (c) blacklisted and henceforth cross debarred for participation in respective category of public procurement or disposal proceedings for a period of not more than six months, if the bidder fails to abide with a bid securing declaration, however without being indulged in any corrupt and fraudulent practice.

(2) Such blacklisting or barring action shall be communicated by the procuring agency to the Authority and respective bidder or bidders in the form of decision containing the grounds for such action. The same shall be publicized by the Authority after examining the record whether the procedure defined in blacklisting and debarment mechanism has been adhered to by the procuring agency.

(3) The bidder may file the review petition before the Authority within thirty days of communication of such blacklisting or barring action after depositing the prescribed fee and in accordance with procedure issued by the Authority, and the Authority shall evaluate the case and decide within ninety days of filing of review petition. The decision of the Authority shall be considered as final.

(4) A bidder who has been declared blacklisted or debarred by a foreign country, international organization or other foreign institutions shall be treated as blacklisted and debarred from participating in any public procurement proceedings

or entering into any public contract for such period as declared by that foreign country, international organizations or other foreign institutions:

Provided that in the case of public sector entities, the Board shall have the power to review and examine the case on the basis of evaluations made by the Authority, and decide the case accordingly.

(5) Notwithstanding anything contained in this rule, the blacklisted or debarred bidder shall be bound to perform its contractual obligations in such on-going public contract or contracts in which such bidder is already engaged. This shall however be at the option of the respective procuring agency.

## 17. General Conditions of Contract

### A. General Provisions

1. **Definitions** 1.1 Unless the context otherwise requires, the following terms whenever used in this Contract have the following meanings:
- (a) **“Applicable Law”** means the laws and any other instruments having the force of law in Pakistan, as they may be issued and in force from time to time,
  - (b) **“Procuring Agency”** means National Assembly Secretariat, Pakistan.
  - (c) **“Procuring Agency’s Personnel”** refers to the staff, labor and other employees (if any) of the Procuring Agency engaged in fulfilling the Procuring Agency’s obligations under the Contract; and any other personnel identified as Procuring Agency’s Personnel, by a notice from the Procuring Agency to the Consultant.
  - (d) **“Consultant”** means a consulting firm as the case may be;
  - (e) **“Contract”** means an agreement enforceable by law;
  - (f) **“Contractor”** means a person, consultant, firm, company or an organization who undertake to supply goods, services or works;
  - (g) **“Contractor’s Personnel”** means personnel whom the Contractor utilizes in the execution of its contract, including the staff, labor and other employees of the Contractor and each subcontractor; and any other personnel assisting the Contractor in the execution of the contract to be supervised by the Consultant (if applicable).
  - (h) **“Day”** means calendar day unless indicated otherwise.

- (i) **“Effective Date”** means the date on which this Contract comes into force and effect pursuant to signed contract.
- (j) **“Experts”** means, collectively, Key Experts, Non-Key Experts, or any other personnel of the Consultant, Sub-consultant or JV member(s) assigned by the Consultant to perform the Services or any part thereof under the Contract.
- (k) **“Foreign Currency”** means any currency other than the Pakistani Rupees.
- (l) **“GCC”** means these General Conditions of Contract.
- (m) **“Government”** means the Government of Pakistan.
- (n) **“Joint Venture (JV)”** means an association with or without a legal personality distinct from that of its members, of more than one entity where one member has the authority to conduct all businesses for and on behalf of any and all the members of the JV, and where the members of the JV are jointly and severally liable to the Procuring Agency for the performance of the Contract.
- (o) **“Key Expert(s)”** means an individual professional whose skills, qualifications, knowledge and experience are critical to the performance of the Services under the Contract and whose Curricula Vitae (CV) was taken into account in the technical evaluation of the Consultant’s proposal.
- (p) **“Local Currency”** means the currency of Pakistan
- (q) **“Non-Key Expert(s)”** means an individual professional provided by the Consultant or its Sub-consultant to perform the Services or any part thereof under the Contract.
- (r) **“Party”** means the Procuring Agency or the Consultant, as the case may be, and “Parties” means both of them.
- (s) **“SCC”** means the Special Conditions of Contract by which the GCC may be amended or supplemented but not over-written.
- (t) **“Services”** means any object of procurement other than goods or works; the work to be performed by the Consultant pursuant to this Contract, as described in Annex- A hereto.
- (u) **“Site”** (if applicable) means the land and other places where Works are to be executed or facilities to be installed, and such other land or places as may be specified in the Contractor’s Contract as forming part of the Site.
- (v) **“Sub-consultants”** means an entity to whom/which the Consultant subcontracts any part of the Services while remaining solely liable for the execution of the Contract.
- (w) **“Third Party”** means any person or entity other than the Government, the Procuring Agency, the Consultant or a Sub-consultant.

2. **Relationship between the Parties** 2.1. Nothing contained herein shall be construed as establishing a relationship of master and servant or of principal and agent as between the Procuring Agency and the Consultant. The Consultant, subject to this Contract, has complete charge of the Experts and Sub-consultants, if any, performing the Services and shall be fully responsible for the Services performed by them or on their behalf hereunder.
3. **Law Governing Contract** 3.1. The contract shall be governed and interpreted in accordance with the laws of Pakistan, unless otherwise specified in **SCC**.
4. **Language** 4.1. The Contract as well as all correspondence and documents relating to the Contract exchanged between the Consultant and the Procuring Agency, shall be written in the English language unless otherwise stated in the **SCC**. Supporting documents and printed literature that are part of the Contract may be in another language provided these are accompanied by an accurate translation of the relevant passages in English, in which case, for purposes of interpretation of the Contract, this translation shall govern.
5. **Headings** The Consultant shall bear all costs of translation to the governing language and all risks of the accuracy of such translation.  
5.1. Reports to be submitted by the Consultants as part of the assignment shall be in the English language.
6. **Communications** 6.1. Communications between Parties (notice, request or consent required or permitted to be given or made by one party to the other) pursuant to the Contract shall be in writing or in electronic forms that provide record of the content of the communication to the address specified in the **SCC**..  
6.2. A notice, request or consent shall be effective when delivered in person to an authorized representative of the Party to whom the communication is addressed, or when sent to such Party at the address specified in the **SCC**.
7. **Location/Site** 7.1. The Services shall be performed at such locations as are specified in **Annex- A** hereto and, where the location of a particular task is not so specified, at such locations, whether in the Government's country or elsewhere, as the Procuring Agency may approve.
8. **Authority of Member in Charge** 8.1. In case the Consultant is a Joint Venture, the members hereby authorize the member specified in the **SCC** to act on their behalf in exercising all the Consultant's rights and obligations towards the Procuring Agency under this Contract, including without limitation the receiving of instructions and payments from the Procuring Agency.
9. **Authorized Representatives** 9.1. Any action required or permitted to be taken, and any document required or permitted to be executed under this Contract by the Procuring Agency or the Consultant may be taken or executed by the officials specified in the **SCC**.

**10. Fraud and Corruption**

10.1 Public Procurement Regulatory Authority requires that Procuring Agencies (including beneficiaries of Government funded projects) as well as Applicants/Bidders/Suppliers/Contractors under Government financed contracts, observe the highest standard of ethics during the procurement and execution of such contracts.

10.2 The Consultant/Applicant/ Bidders shall permit and shall cause their agents (whether declared or not), sub-contractors, sub-consultants, service providers, suppliers, and their personnel, to permit the Procuring Agency to inspect all accounts, records and other documents relating to any, Bid submission, Primary Procurement process, Framework Agreement performance, Secondary Procurement process, and/or Call-off Contract performance (in the case of award of a Call-off Contract), and to have them audited by auditors appointed by the Procuring Agency.

10.3 Any communications between the Bidder and the Procuring Agency related to matters of alleged corrupt and fraudulent practices must be made in writing or in electronic forms that provide record of the content of communication.

10.4 Procuring Agency will reject proposal, if it is established that the Bidder was engaged in corrupt and fraudulent practices in competing for the contract.

10.5 Procuring Agency will also declare the bidder/Firm as blacklisted in accordance with the regulatory provisions PP Rule 19 and predefined standard mechanism.

**a. Commissions and Fees**

The Procuring Agency requires the Consultant to disclose any commissions, gratuities or fees that may have been paid or are to be paid to agents or any other party with respect to the selection process or execution of the Contract. The information disclosed must include at least the name and address of the agent or other party, the amount and currency, and the purpose of the commission, gratuity or fee. Failure to disclose such commissions, gratuities or fees may result in termination of the Contract.

**B. COMMENCEMENT, COMPLETION, MODIFICATION AND TERMINATION OF CONTRACT -**

1. **Effectiveness of Contract** 11.1. This Contract shall come into force and effect on the date (the "Effective Date") of the Procuring Agency's notice to the Consultant instructing the Consultant to begin carrying out the Services. This notice shall confirm that the effectiveness conditions, if any, listed in the SCC have been met.
2. **Termination of Contract for Failure to Become Effective** 12.1. If this Contract has not become effective within such time period after the date of Contract signature as specified in the SCC, either Party may, by not less than twenty two (22) days written notice to the other Party, declare this Contract to be null and void, and in the event of such a declaration by either Party, neither Party shall have any claim against the other Party with respect hereto.
3. **Commencement of Services** 13.1. The Consultant shall confirm availability of Key Experts and begin carrying out the Services not later than the number of days after the Effective Date specified in the SCC.
4. **Expiration of Contract** 14.1. Unless terminated earlier pursuant to Clause GCC 19 hereof, this Contract shall expire at the end of such time period after the Effective Date as specified in the SCC.
5. **Entire Agreement** 15.1. This Contract contains all covenants, stipulations and provisions agreed by the Parties. No agent or representative of either Party has authority to make, and the Parties shall not be bound by or be liable for, any statement, representation, promise or agreement not set forth herein.
6. **Modifications or Variations** 16.1. Any modification or variation of the terms and conditions of this Contract, may only be made by written agreement between the Parties. However, each Party shall give due consideration to any proposals for modification or variation made by the other Party.  
  
16.2. In cases of any modifications or variations, the prior written consent of the Procuring agency is required.
7. **Force Majeure**
  - a. **Definition** 17.1. For the purposes of this Contract, "Force Majeure" means an event which is beyond the reasonable control of a Party, is not foreseeable, is unavoidable, and makes a Party's performance of

its obligations hereunder impossible or so impractical as reasonably to be considered impossible under the circumstances, and subject to those requirements, includes, but is not limited to, war, riots, civil disorder, earthquake, fire, explosion, storm, flood or other adverse weather conditions, strikes, lockouts or other industrial action confiscation or any other action by Government agencies.

17.2. Force Majeure shall not include (i) any event which is caused by the negligence or intentional action of a Party or such Party's Experts, Sub-consultants or agents or employees, nor (ii) any event which a diligent Party could reasonably have been expected to both take into account at the time of the conclusion of this Contract, and avoid or overcome in the carrying out of its obligations hereunder.

17.3. Force Majeure shall not include insufficiency of funds or failure to make any payment required hereunder.

**b. No Breach of Contract**

17.4. The failure of a Party to fulfill any of its obligations hereunder shall not be considered to be a breach of, or default under, this Contract insofar as such inability arises from an event of Force Majeure, provided that the Party affected by such an event has taken all reasonable precautions, due care and reasonable alternative measures, all with the objective of carrying out the terms and conditions of this Contract.

**c. Measures to be Taken**

17.5. A Party affected by an event of Force Majeure shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall take all reasonable measures to minimize the consequences of any event of Force Majeure.

17.6. A Party affected by an event of Force Majeure shall notify the other Party of such event as soon as possible, and in any case not later than fourteen (14) calendar days following the occurrence of such event, providing evidence of the nature and cause of such event, and shall similarly give written notice of the restoration of normal conditions as soon as possible.



17.7. Any period within which a Party shall, pursuant to this Contract, complete any action or task, shall be extended for a period equal to the time during which such Party was unable to perform such action as a result of Force Majeure.

17.8. During the period of their inability to perform the Services as a result of an event of Force Majeure, the Consultant, upon instructions by the Procuring Agency, shall either:

- (a) demobilize, in which case the Consultant shall be reimbursed for additional costs they reasonably and necessarily incurred, and, if required by the Procuring Agency, in reactivating the Services; or
- (b) continue with the Services to the extent reasonably possible, in which case the Consultant shall continue to be paid under the terms of this Contract and be reimbursed for additional costs reasonably and necessarily incurred.

17.9. In the case of disagreement between the Parties as to the existence or extent of Force Majeure, the matter shall be settled according to Clauses GCC 45 & 46.

**8. Suspension**

18.1. The Procuring Agency may, by written notice of suspension to the Consultant, suspend all payments to the Consultant hereunder if the Consultant fails to perform any of its obligations under this Contract, including the carrying out of the Services, provided that such notice of suspension (i) shall specify the nature of the failure, and (ii) shall request the Consultant to remedy such failure within a period not exceeding thirty (30) calendar days after receipt by the Consultant of such notice of suspension.

**9. Termination**

19.1. This Contract may be terminated by either Party as per provisions set up below:

**a. By the Procuring Agency**

19.1.1. The Procuring Agency may terminate this Contract in case of the occurrence of any of the events specified in paragraphs (a) through (f) of this Clause. In such an occurrence the Procuring Agency shall give at least thirty (30) calendar days' written notice of termination to the Consultant in case of the events referred to in (a) through (d); at least sixty (60) calendar days' written notice in

case of the event referred to in (e); and at least five (5) calendar days' written notice in case of the event referred to in (f):

- (a) If the Consultant fails to remedy a failure in the performance of its obligations hereunder, as specified in a notice of suspension pursuant to Clause GCC 18;
- (b) If the Consultant becomes (or, if the Consultant consists of more than one entity, if any of its members becomes) insolvent or bankrupt or enter into any agreements with their creditors for relief of debt or take advantage of any law for the benefit of debtors or go into liquidation or receivership whether compulsory or voluntary;
- (c) If the Consultant fails to comply with any final decision reached as a result of arbitration proceedings pursuant to Clause GCC 45.1;
- (d) If, as the result of Force Majeure, the Consultant is unable to perform a material portion of the Services for a period of not less than sixty (60) calendar days;
- (e) If the Procuring Agency, in its sole discretion and for any reason whatsoever, decides to terminate this Contract;
- (f) If the Consultant fails to confirm availability of Key Experts as required in Clause GCC 13.

19.1.2. Furthermore, if the Consultant, in the judgment of the Procuring Agency has engaged in Fraud and Corruption, as defined in paragraph 1.23 of Attachment 1 to the GCC, in competing for or in executing the Contract, then the Procuring Agency may, after giving fourteen (14) calendar days written notice to the Consultant, terminate the Consultant's employment under the Contract.

**b. By the Consultant**

19.1.3. The Consultant may terminate this Contract, by not less than thirty (30) calendar days' written notice to the Procuring Agency,

in case of the occurrence of any of the events specified in paragraphs (a) through (d) of this Clause.

- (a) If the Procuring Agency fails to pay any money due to the Consultant pursuant to this Contract and not subject to dispute pursuant to Clause GCC 45.1 within forty-five (45) calendar days after receiving written notice from the Consultant that such payment is overdue.
- (b) If, as the result of Force Majeure, the Consultant is unable to perform a material portion of the Services for a period of not less than sixty (60) calendar days.
- (c) If the Procuring Agency fails to comply with any final decision reached as a result of arbitration pursuant to Clause GCC 46.1.
- (d) If the Procuring Agency is in material breach of its obligations pursuant to this Contract and has not remedied the same within forty-five (45) days (or such longer period as the Consultant may have subsequently approved in writing) following the receipt by the Procuring Agency of the Consultant's notice specifying such breach.

**c. Cessation of Rights and Obligations**

19.1.4. Upon termination of this Contract pursuant to Clauses GCC 12 or GCC 19 hereof, or upon expiration of this Contract pursuant to Clause GCC 14, all rights and obligations of the Parties hereunder shall cease, except (i) such rights and obligations as may have accrued on the date of termination or expiration, (ii) the obligation of confidentiality set forth in Clause GCC 22, (iii) the Consultant's obligation to permit inspection, copying and auditing of their accounts and records set forth in Clause GCC 25 and to cooperate and assist in any inspection or investigation and (iv) any right which a Party may have under the Law.

**d. Cessation of Services**

19.1.5. Upon termination of this Contract by notice of either Party to the other pursuant to Clauses GCC 19a or GCC 19b, the

Consultant shall, immediately upon dispatch or receipt of such notice, take all necessary steps to bring the Services to a close in a prompt and orderly manner and shall make every reasonable effort to keep expenditures for this purpose to a minimum. With respect to documents prepared by the Consultant and equipment and materials furnished by the Procuring Agency, the Consultant shall proceed as provided, respectively, by Clauses GCC 27 or GCC 28.

**e. Payment upon Termination**

19.1.6. Upon termination of this Contract, the Procuring Agency shall make the following payments to the Consultant:

- (a) payment for Services satisfactorily performed prior to the effective date of termination; and
- (b) in the case of termination pursuant to paragraphs (d) and (e) of Clause GCC 19.1.1, reimbursement of any reasonable cost incidental to the prompt and orderly termination of this Contract, including the cost of the return travel of the Experts.

**C. Obligations of the Consultant**

**10. General**

**a. Standard of Performance**

20.1 The Consultant shall perform the Services and carry out the Services with all due diligence, efficiency and economy, in accordance with generally accepted professional standards and practices, and shall observe sound management practices, and employ appropriate technology and safe and effective equipment, machinery, materials and methods. The Consultant shall always act, in respect of any matter relating to this Contract or to the Services, as a faithful adviser to the Procuring Agency, and shall at all times support and safeguard the Procuring Agency's legitimate interests in any dealings with the third parties.

20.2. The Consultant shall employ and provide such qualified and experienced Experts and Sub-consultants as are required to carry out the Services.

20.3. The Consultant may subcontract part of the Services to an extent and with such Key Experts and Sub-consultants as may be approved in advance by the Procuring Agency.

**B. Law Applicable to Services**

20.4. The Consultant shall perform the Services in accordance with the Contract and in accordance with the Law of Pakistan and shall take all practicable steps to ensure that any of its Experts and Sub-consultants, comply with the Applicable Law.

**11. Conflict of Interests**

21.1. The Consultant shall hold the Procuring Agency's interests paramount, without any consideration for future work, and strictly avoid conflict with other assignments or their own corporate interests.

**a. Consultant Not to Benefit from Commissions, Discounts, etc.**

21.1.1 The payment of the Consultant pursuant to GCC F (Clauses GCC 39 through 43) shall constitute the Consultant's only payment in connection with this Contract and, subject to Clause GCC 21.1.3, the Consultant shall not accept for its own benefit any trade commission, discount or similar payment in connection with activities pursuant to this Contract or in the discharge of its obligations hereunder, and the Consultant shall use its best efforts to ensure that any Sub-consultants, as well as the Experts and agents of either of them, similarly shall not receive any such additional payment.

21.1.2 Furthermore, if the Consultant, as part of the Services, has the responsibility of advising the Procuring Agency on the procurement of goods, works or services. Any discounts or commissions obtained by the Consultant in the exercise of such procurement responsibility shall be for the account of the Procuring Agency.

**b. Consultant and Affiliates Not to Engage in Certain Activities**

21.1.3 The Consultant agrees that, during the term of this Contract and after its termination, the Consultant and any entity affiliated with the Consultant, as well as any Sub-consultants and any entity affiliated with such Sub-consultants, shall be disqualified from providing goods, works or non-consulting services resulting

from or directly related to the Consultant's Services for the preparation or implementation of the project, unless otherwise indicated in the **SCC**.

**c. Prohibition of Conflicting Activities**

21.1.4 The Consultant shall not engage, and shall cause its Experts as well as its Sub-consultants not to engage, either directly or indirectly, in any business or professional activities that would conflict with the activities assigned to them under this Contract.

**d. Strict Duty to Disclose Conflicting Activities**

21.1.5 The Consultant has an obligation and shall ensure that its Experts and Sub-consultants shall have an obligation to disclose any situation of actual or potential conflict that impacts their capacity to serve the best interest of their Procuring Agency, or that may reasonably be perceived as having this effect. Failure to disclose said situations may lead to the disqualification of the Consultant or the termination of its Contract.

**12. Confidentiality**

22.1 Except with the prior written consent of the Procuring Agency, the Consultant and the Experts shall not at any time communicate to any person or entity any confidential information acquired in the course of the Services, nor shall the Consultant and the Experts make public the recommendations formulated in the course of, or as a result of, the Services.

**13. Liability of the Consultant**

23.1 Subject to additional provisions, if any, set forth in the **SCC**, the Consultant's liability under this Contract shall be provided by the Applicable Law.

**14. Insurance to be Taken out by the Consultant**

24.1 The Consultant (i) shall take out and maintain, and shall cause any Sub-consultants to take out and maintain, at its (or the Sub-consultants', as the case may be) own cost but on terms and conditions approved by the Procuring Agency, insurance against the risks, and for the coverage specified in the **SCC**, and (ii) at the Procuring Agency's request, shall provide evidence to the Procuring Agency showing that such insurance has been taken out and maintained and that the current premiums therefore have been paid. The Consultant

shall ensure that such insurance is in place prior to commencing the Services as stated in Clause GCC 13.

**15. Accounting, Inspection and Auditing**

25.1 The Consultant shall keep, and shall make all reasonable efforts to cause its Sub-consultants to keep, accurate and systematic accounts and records in respect of the Services and in such form and detail as will clearly identify relevant time changes and costs.

25.2 Pursuant to paragraph 1.23 (e) of Attachment 1 to the General Conditions, the Consultant shall permit and shall cause its agents (where declared or not), subcontractors, sub-consultants, service providers, suppliers, and personnel, to permit, the procuring agency to inspect the site and/or the accounts, records and other documents relating to the procurement process, selection and/or contract execution, and to have such accounts, records and other documents audited by auditors appointed by the Procuring Agency. The Consultant's and its Subcontractors' and sub-consultants' attention is drawn to Sub-Clause 10.1 (Fraud and Corruption) which provides, inter alia, that acts intended to materially impede the exercise of the Procuring Agency's inspection and audit rights constitute a prohibited practice subject to contract termination.

**16. Reporting Obligations**

26.1 The Consultant shall submit to the Procuring Agency the reports and documents specified in **Annex- A**, in the form, in the numbers and within the time periods set forth in the said Appendix.

**D. Proprietary Rights of the Procuring Agency in Reports and Records**

27.1 Unless otherwise indicated in the **SCC**, all reports and relevant data and information such as maps, diagrams, plans, databases, other documents and software, supporting records or material compiled or prepared by the Consultant for the Procuring Agency in the course of the Services shall be confidential and become

and remain the absolute property of the Procuring Agency. The Consultant shall, not later than upon termination or expiration of this Contract, deliver all such documents to the Procuring Agency, together with a detailed inventory thereof. The Consultant may retain a copy of such documents, data and/or software but shall not use the same for purposes unrelated to this Contract without prior written approval of the Procuring Agency.

27.2 If license agreements are necessary or appropriate between the Consultant and third parties for purposes of development of the plans, drawings, specifications, designs, databases, other documents and software, the Consultant shall obtain the Procuring Agency's prior written approval to such agreements, and the Procuring Agency shall be entitled at its discretion to require recovering the expenses related to the development of the program(s) concerned. Other restrictions about the future use of these documents and software, if any, shall be specified in the **SCC**.

**E. Equipment, Vehicles and Materials**

28.1 Equipment, vehicles and materials made available to the Consultant by the Procuring Agency, or purchased by the Consultant wholly or partly with funds provided by the Procuring Agency, shall be the property of the Procuring Agency and shall be marked accordingly. Upon termination or expiration of this Contract, the Consultant shall make available to the



Procuring Agency an inventory of such equipment, vehicles and materials and shall dispose of such equipment, vehicles and materials in accordance with the Procuring Agency's instructions. While in possession of such equipment, vehicles and materials, the Consultant, unless otherwise instructed by the Procuring Agency in writing, shall insure them at the expense of the Procuring Agency in an amount equal to their full replacement value.

28.2 Any equipment or materials brought by the Consultant or its Experts into the Procuring Agency's country for the use either for the project or personal use shall remain the property of the Consultant or the Experts concerned, as applicable.

**F. Code of Conduct**

29.1 The Procuring Agencies and the Consultant are bound to follow the Code of Ethics issued by the Authority.

## 18. ANNEX-A

### **Background, Objectives, Scope of Work and Technical Details of CCTV SYSTEM FOR SURVEILLANCE, MONITORING AND SECURITY FOR THE NATIONAL ASSEMBLY OF PAKISTAN**

#### **A. Background and Introduction of the Procuring Agency**

The National Assembly of Pakistan, the Procuring Agency, is the country's sovereign legislative body. It embodies the will of the people to let themselves be governed under the democratic, multi-party Federal Parliamentary System. The National Assembly makes laws for the Federation in respect of the powers enumerated in the Federal Legislative list. Through its debates, adjournment motion, question hour and Standing Committees, the National Assembly keeps a check over the Executive and ensures that the government functions within the parameters set out in the Constitution and does not violate the fundamental rights of citizens. Only the National Assembly, through its Public Accounts Committee, scrutinizes public spending and exercises control of expenditure incurred by the government.

The Islamic Republic of Pakistan is a Federal State comprising four provinces of Balochistan, Khyber Pakhtunkhwa, Punjab and Sindh; Islamabad is the Federal Capital with Federally Administered Tribal Areas (FATA). These federating units offer a lot of diversity and variety in terms of languages, levels of social and economic development, population density and climatic conditions.

The Members of the National Assembly are to be elected by direct and free vote in accordance with law.

#### **a) CONSTITUTIONAL ROLE**

Article 50 of the Constitution provides that the Parliament of Pakistan shall consist of the President and the two Houses known as the National Assembly and the Senate. The National Assembly has an edge over the Senate by legislating exclusively on money matters. With exception to money Bills, however, both the Houses work together to carry out the basic work of the Parliament, i.e. law making.

#### **b) LEGISLATIVE PROCEDURE**

The Bill relating to the Federal Legislative List can be originated in either House. If the House passed the Bill through majority vote, it shall be transmitted to the other House. If the other House passes it without amendment, it shall be presented to the President for assent.

If the Bill, transmitted to the other House, is not passed within ninety days or rejected, it shall be considered in a joint sitting to be summoned by the President on

the request of the House in which the Bill originated. If the Bill is passed in the joint sitting, with or without amendments, by the votes of majority of the members of the two Houses, it shall be presented to the President for assent.

If the Bill is presented to the President for assent, he shall assent to the Bill in not later than ten days. If it is not a Money Bill, the President may return the Bill to the Majlis-e-Shoora with a message requesting that the Bill be reconsidered and that an amendment specified in the message be considered. The Majlis-e-Shoora shall reconsider the Bill in a joint sitting. If the Bill is passed again, with or without amendment, by vote of the majority of the members present and voting, it shall be presented to the President and the President shall give his assent within ten days; failing which such assent shall be deemed to have been given.

Under the Constitution, the Parliament may also legislate for two or more Provinces by consent and request made by those Provinces. If the Federal Government proclaims a State of Emergency in any province, the power to legislate about that province is vested in the Parliament. But the Bills passed by the Parliament during the State of Emergency, shall cease to be in force after the expiration of six months from the date Emergency is lifted. Nevertheless, the steps already taken under these Acts shall remain valid.

In exercises of its constitutional role, the Parliament also has other very important duties to perform. The President, who is at the apex, is elected by members of both Houses of the Parliament and the Provincial Assemblies. The Prime Minister, who heads the Cabinet and is meant to aid and advise the President in his functions, belongs to the National Assembly. He enjoys the confidence of the majority of the members of the National Assembly. Members of the Cabinet are appointed by the President on the advice of the Prime Minister.

In the formation of the Cabinet the major portion (75%), goes to the National Assembly while the rest (25%) are taken from the Senate.

There is a democratic procedure to remove the Prime Minister from his office if he loses the confidence of the majority of the members of the National Assembly. In this respect a resolution for a vote of no-confidence is moved by not less than 20% of the total membership of the National Assembly. If the resolution is passed by majority of the total membership of the National Assembly, the Prime Minister immediately relinquishes powers.

Similarly, for the removal or impeachment of the President, not less than one-half of the total membership of either House may give in writing its intention to do so, to the Speaker National Assembly, or, as the case may be, to the Chairman Senate, for moving a resolution for the purpose. In a joint sitting of the two Houses, convened for the purpose, and after the deliberations, if the resolution is passed by the votes of not less than two thirds of the total membership of the Parliament, the President shall cease to hold office immediately on the passing of the resolution.

In case an emergency is proclaimed, the Parliament holds the authority to extend the term of the National Assembly. Under the Constitution, the Parliament may also, on the request of the Federal Government, by law, confer functions upon officers or authorities subordinate to the Federal Government.

### **c) National Assembly Strategic Plan 2019-23**

General Elections 2018 witnessed the second constitutional transition of power from one democratically elected government to another. The 15th National Assembly of Pakistan was successfully constituted on 13 August 2018. Immediately after assuming office of the Speaker, Mr. Asad Qaiser initiated reforms within the House. These reforms were aimed at adopting a comprehensive approach to ensure that the entire House benefits by undertaking capacity and resource development during the inception phase of NASP 2019-23 development.

### **d) Digital Transformation of the National Assembly Secretariat**

The National Assembly Pakistan has a long standing record of fulfilling democratic aspirations. To discover new ways of transforming the National Assembly, a thorough assessment was carried out and a National Assembly Strategic Plan 2019-2023 was approved. In the strategic plan several goals were set for achievement before 2023. The underlying foundation for achieving the goals in the National Assembly strategic plan is the digital enablement of core functions and services.

Digital Transformation will enable fast-track implementation of the following eight (08) goals of the National Assembly Strategic plan:

- I. Goal-1: Committee systems and structures enhanced by making systems and processes more efficient
- II. Goal-2: Infrastructure development
- III. Goal-3: Research and Library provide Parliamentarians and Secretariat access to evidence-based decision making.
- IV. Goal-4: CT tools optimised to strengthen Parliamentary efficiency. All sub-goals:
  - A. 4.1. Digitalisation for House operations
  - B. 4.2. Digital Legislative Database
  - C. 4.3. Digitalising Committee processes
  - D. 4.4. ICT for Research Optimisation
  - E. 4.5. Enhance Connectivity
  - F. 4.6. ICT based citizens engagement
- V. Goal-5: Institutionalise PMU for implementation and review of NA Strategic Plan and strengthen it to perform effectively in developing partnerships
- VI. Goal-6: Enhance SDGs capacity and linkages with Ministries and international partners to make it effective in achieving desired results
- VII. Goal-7: Support increasing engagement of Women Parliamentary Caucus with various stakeholders
- VIII. Goal-8: Enhance and encourage citizen participation from: Academia, youth and women, and vulnerable population segments

**B) Objective(s) of the Assignment**

To improve the security and surveillance capability of the National Assembly In-door and Out-Door security with the help of technology .

**C) Required Items, Specifications and Bill of Quantity**

The following items along with specification and number shall be supplied by the bidders.

S.No	Item Description	Quantity
<b>CAMERA (s)</b>		
1	<p>4MP COLOR CAMERA WITH 30 METER IR  1/2.7" Progressive Scan CMOS  Color: 0.001 Lux @ (F1.0, AGC ON)  1/3 s to 1/100,000 s  120 dB  Up to 30 m Smart Supplement White Light  25 fps (2304 × 1296, 1920 × 1080, 1280 × 720)  25 fps (640 × 480, 640 × 360, 320 × 240)  Mainstream: H.265+/H.265/H.264+/H.264  32 kbps to 8 Mbps  TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, NTP,  UPnP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour, SSL/TLS</p> <p>Password protection, complicated password, HTTPS encryption, IP address filter, Security Audit Log, basic and digest authentication for HTTP/HTTPS BLC, HLC, 3D DNR</p> <p>Line crossing detection, intrusion detection, Motion detection, video tampering alarm, exception (illegal login), Anti-flicker, heartbeat, mirror, privacy masks, password reset via e-mail, pixel counter</p> <p>FCC (47 CFR Part 15, Subpart B); CE-EMC (EN 55032: 2015, EN 61000-3-2: 2014, EN 61000-3-3: 2013, EN 50130-4: 2011 +A1: 2014); RCM (AS/NZS CISPR 32: 2015); IC (ICES-003: Issue 6, 2016); KC (KN 32: 2015, KN 35: 2015) UL (UL 60950-1); CB (IEC 60950-1:2005 + Am 1:2009 + Am 2:2013, IEC 62368-1:2014); CE-LVD (EN 60950-1:2005 + Am 1:2009 + Am 2:2013, IEC 62368-1:2014); BIS (IS 13252(Part 1):2010+A1:2013+A2:2015) CE-RoHS (2011/65/EU); WEEE (2012/19/EU); Reach (Regulation (EC) No 1907/2006) Ingression protection: IP67 (IEC 60529-2013)</p>	82
2	<p>5MP Bullet camera with 40 Meter IR  1/2.7" Progressive Scan CMOS 2560 × 1920  Color: 0.005 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR  1/3 s to 1/100, 000 s</p> <p>Up to 40 m IR range  20 fps (2560 × 1920), 25 fps (2560 × 1440, 1920 × 1080, 1280 × 720)</p>	20

	<p>Main stream: H.265/H.264/H.265+/H.264+</p> <p>TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, NTP, UPnP™, SMTP, IGMP, 802.1X, QoS, IPv6, Bonjour, IPv4, UDP, SSL/TLS</p> <p>Saturation, brightness, contrast, sharpness, AGC, white balance adjustable by client software or web browser</p> <p>120 dB</p> <p>BLC, HLC, 3D DNR</p> <p>Motion detection, video tampering alarm, exception</p> <p>Line crossing detection, intrusion detection</p> <p>Upload to FTP, notify surveillance center, send email, trigger capture</p> <p>Anti-flicker, heartbeat, mirror, password protection, privacy mask, watermark, IP address filter</p> <p>FCC SDoC (47 CFR Part 15, Subpart B); CE-EMC (EN 55032: 2015, EN 61000-3-2:2019, EN 61000-3-3:2013+A1:2019, EN 50130-4: 2011 +A1: 2014); KC (KN 32: 2015, KN 35: 2015)</p> <p>UL (UL 62368-1) CB (IEC 62368-1: 2014+A11) CE-LVD (EN 62368-1: 2014/A11: 2017) BIS (IS 13252 (Part 1): 2010/IEC 60950-1: 2005) CE-RoHS (2011/65/EU); WEEE (2012/19/EU); Reach (Regulation (EC) No 1907/2006)</p> <p>IP67 (IEC 60529-2013)</p>	
3	<p>5MP BULLET WITH 90 METER IR</p> <p>DS-2CD3T56G2-41S© or equivalent</p> <p>1/2.7" Progressive Scan CMOS</p> <p>Color: 0.003 Lux @ (F1.4, AGC ON), B/W: 0 Lux with IR</p> <p>1/3 s to 1/100,000 s</p> <p>120 dB</p> <p>Up to 90 m smart supplement IR light</p> <p>Support 4 streams (Main, Sub, Third and Fourth)</p> <p>25 fps (2592 × 1944, 2688 × 1520, 1920 × 1080, 1280 × 720)</p> <p>Main stream: H.265/H.264/H.264+/H.265+</p> <p>32 Kbps to 16 Mbps</p> <p>G.711ulaw/G.711alaw/G.722.1/G.726/MP2L2/PCM/MP3/AAC</p> <p>64 Kbps (G.711ulaw/G.711alaw)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 to 192 Kbps (MP2L2)/8 to 320 Kbps (MP3)/16 to 64 Kbps (AAC)</p> <p>Open Network Video Interface (PROFILE S, PROFILE G, PROFILE T), ISAPI, SDK, ISUP</p> <p>TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, NTP, UPnP, SMTP,</p> <p>IGMP, 802.1X, QoS, IPv4, IPv6, UDP, Bonjour, SSL/TLS, PPPoE, ARP, SNMP</p> <p>Password protection, complicated password, HTTPS encryption, IP address filter,</p> <p>Security Audit Log, basic and digest authentication for HTTP/HTTPS, TLS 1.1/1.2, WSSE</p> <p>and digest authentication for Open Network Video Interface</p> <p>MicroSD/SDHC/SDXC card (256 GB) local storage, and NAS (NFS, SMB/CIFS), auto</p>	22

	<p>network replenishment (ANR)  Together with high-end Hikvision memory card, memory card encryption and health detection are supported.  BLC, HLC, 3D DNR  Rotate mode, saturation, brightness, contrast, sha  Alarm 2 inputs, 2 outputs (max. 24 VDC, 1A)  Motion detection (human and vehicle targets classification), video tampering alarm,  Exception  Unattended baggage detection, object removal detection, scene change detection,  audio exception detection  Line crossing detection, intrusion detection, region entrance detection, region exiting  Detection  Upload to NAS/memory card/FTP, notify surveillance center, trigger recording, trigger capture, send email, audible warning  FCC SDoC (47 CFR Part 15, Subpart B);  CE-EMC (EN 55032: 2015, EN 61000-3-2: 2019, EN 61000-3-3: 2013, EN 50130-4: 2011 +A1: 2014);  RCM (AS/NZS CISPR 32: 2015);  IC VoC (ICES-003: Issue 6, 2019);  KC (KN 32: 2015, KN 35: 2015)  UL (UL 60950-1);  CB (IEC 60950-1:2005 + Am 1:2009 + Am 2:2013, IEC 62368-1:2014);  CE-LVD (EN 60950-1:2006+A2:2013, IEC 62368-1:2014+A11:2017);  BIS (IS 13252(Part 1):2010+A1:2013+A2:2015);  LOA (SANS IEC60950-1)  CE-RoHS (2011/65/EU); WEEE (2012/19/EU);  Reach (Regulation (EC) No 1907/2006)  IP67 (IEC 60529-2013)</p>	
4	<p>4MP PTZ WITH 42X OPTICAL ZOOM  DS-2DF84421XS-AELW(T2)  1/1.8" progressive scan CMOS  Color: 0.002 Lux @ (F1.2, AGC ON) B/W: 0.0002 Lux @ (F1.2, AGC ON), 0 Lux with IR  1/1 s to 1/30,000 s  140 dB WDR  HLC ,  Yes. Built-in gyroscope to improve EIS performance  Regional Exposure  Regional Focus  White Balance  Digital Zoom 16 ×</p>	07

<p>Optical Zoom 42 ×  Privacy Mask  Up to 24 masks, polygon region, mosaic mask, mask color configurable  General Function  mirror, password protection, watermark, IP address filter  Optical Defog  6.0 mm to 252 mm, 42 × Optical  Approx. 4.5 s zoom speed  -20° to 90° (auto flip)  pan speed: configurable from 0.1° to 210°/s; preset speed: 280°/s  tilt speed: configurable from 0.1° to 150°/s, preset speed 250°/s  Proportional Zoom  Presets 300  8 patrols, up to 32 presets for each patrol  4 pattern scans, record time over 10 minutes for each scan  Power-off Memory  Park Action preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan  3D Positioning  PTZ Status Display  Preset Freezing  Scheduled Task  Preset, patternscan, patrolscan, autoscan, tiltscan, randomscan, framescan, panoramascan, domereboot, domeadjust, aux output  Vandal-proof Alarm  60fps(2560×1440,1920×1080,1280×960,1280×720)  dynamic face tracking, fixed-region, dynamic license plate tracking  G.711alaw,G.711ulaw,G.722.1,G.726,MP2L2,PCM  Support detecting up to 30 faces at the same time. Support detecting, tracking, capturing, grading, selecting of face in motion, and output the best face picture of the face.  Support vehicle detection (license plate number;vehicle model, and vehicle color recognition)  unattended baggage detection,object removal detection,Intrusion Detection, Line Crossing Detection, Region Entrance Detection, Region Exiting Detection, Audio Exception Detection  manual tracking, event tracking, auto-tracking  Alarm actions, such as Preset, Patrol Scan, Pattern Scan, Memory Card Video Record, Trigger Recording, Notify Surveillance Center, Upload to FTP/Memory Card/NAS, Send Email, etc.  IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP/IP, DHCP, PPPoE, UDP, IGMP, ICMP, Bonjour  ISAPI, Hikvision SDK, ONVIF (Profile S, Profile G, Profile T)  User authentication (ID and PW), Host authentication (MAC address); HTTPS encryption; IEEE 802.1x port-based network access control; IP address filtering  7 alarm inputs</p>	
---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--



	<p>2 alarm outputs 500 m IR distance Lightning Protection, Surge Protection and Voltage Transient Protection,±6kV Line to Gnd, ±3kV Line to Line, IEC61000-4-5,IP67 Standard,IK10</p>	
5	<p>4MP ANPR CAMERA IDS-2CD7A46G0/P-IZHS(2.8-12MM) or equivalent 1/1.8" Progressive Scan CMOS Color: 0.001 Lux @ (F1.2, AGC ON); B/W: 0.0003 Lux @ (F1.2, AGC ON) 1 s to 1/100,000 s 140 dB 2.8 to 12 mm: 50 m IR Support Main stream/sub-stream/third stream/fourth stream/fifth stream/custom stream 25fps (2680 × 1520, 2560 × 1440, 1920 × 1080, 1280 × 720) Main stream: H.265+/H.265/H.264+/ H.264 G.711/G.722.1/G.726/MP2L2/PCM/MP3 Up to 20 channels Simultaneous Live View ONVIF (PROFILE S, PROFILE G, PROFILE T), ISAPI, SDK, ISUP TCP/IP, ICMP, HTTP, HTTPS, FTP, SFTP, SRTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP,UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour, SSL/TLS Password protection, complicated password, HTTPS encryption,802.1X authentication (EAP-TLS, EAP-LEAP, EAP-MD5), watermark, IP address filter, basic and digest authentication for HTTP/HTTPS, WSSE and digest authentication for ONVIF, RTP/RTSP OVER HTTPS, Control Timeout Settings, Security Audit Log, TLS 1.2 microSD/SDHC/SDXC card (256 GB) local storage, and NAS (NFS, SMB/CIFS), auto network replenishment (ANR) Together with high-end Hikvision memory card, memory card encryption and health detection are supported. The IR LEDs on camera should support Smart IR function to automatically adjust power to avoid image overexposure. Day, Night, Auto, Schedule, Triggered by Alarm In, Triggered by Video BLC, HLC, 3D DNR, Defog, EIS, Distortion Correction Alarm 2 input, 2 outputs (max. 24 VDC, 1 A) With -Y: 1 RS-485(half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive) 1 Vp-p Composite Output(75Ω/CVBS)(For debugging only) Built-in micro SD/SDHC/SDXC slot, up to 256 GB Motion detection, video tampering alarm, vibration detection, exception (network disconnected, IP address conflict, illegal login, HDD full, HDD error) Line crossing detection, up to 4 lines configurable Intrusion detection, up to 4 regions configurable Region entrance detection, up to 4 regions configurable Region exiting detection, up to 4 regions configurable Unattended baggage detection, up to 4 regions configurable Object removal detection, up to 4 regions configurable</p>	06

	<p>Scene change detection, audio exception detection, defocus detection Line crossing, intrusion, region entrance, region exiting Support alarm triggering by specified target types (human and vehicle) Filtering out mistaken alarm caused by target types such as leaf, light, animal, and flag, etc. Blocklist and allowlist: up to 10000 records Captures vehicle that has no license plate Support license plate recognition of motorcycles (only in checkpoint scenario) Support vehicle attribute detection, including vehicle type, color, brand, etc. (City Street mode is recommended.) Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger alarm output, trigger recording, trigger capture Trigger recording: memory card, network storage, pre-record and post-record Trigger captured pictures uploading: FTP, SFTP, HTTP, NAS, Email Trigger notification: HTTP, ISAPI, alarm output, Email Aluminum alloy body Metadata of intrusion detection, line crossing detection, region entrance detection, region exiting detection, unattended baggage detection, object removal are supported. FCC (47 CFR Part 15, Subpart B); CE-EMC (EN 55032: 2015, EN 61000-3-2: 2014, EN 61000-3-3: 2013, EN 50130-4: 2011 +A1: 2014); RCM (AS/NZS CISPR 32: 2015); IC (ICES-003: Issue 6, 2016); KC (KN 32: 2015, KN 35: 2015 UL (UL 60950-1); CB (IEC 60950-1:2005 + Am 1:2009 + Am 2:2013); CE-LVD (EN 60950-1:2005 + Am 1:2009 + Am 2:2013); BIS (IS 13252(Part 1):2010+A1:2013+A2:2015); LOA (IEC/EN 60950-1) CE-RoHS (2011/65/EU); WEEE (2012/19/EU); Reach (Regulation (EC) No 1907/2006) IK10 (IEC 62262:2002), IP67 (IEC 60529-2013)</p>	
6	<p>4MP COLORV + ACUSENSE BULLET CAMERA WITH 40 METER WARM WHITE LIGHT DS-2CD3047G2-LS ( C) or equivalent 1/1.8" Progressive Scan CMOS Color: 0.0005 Lux @ (F1.0, AGC ON), 0 Lux with white light 130 dB Warm white LEDs (3000 K) Up to 40 m 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720) Support Main stream/sub-stream/third stream/fourth stream Main stream: H.265/H.264/H.264+/H.265+ 32 Kbps to 8 Mbps Environment Noise Filtering 64 Kbps (G.711ulaw/G.711alaw)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 to 192 Kbps (MP2L2)/8 to 320 Kbps (MP3)/16 to 64 Kbps (AAC) TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, NTP, UPnP, SMTP, IGMP, 802.1X, QoS, IPv4, IPv6, UDP, Bonjour, SSL/TLS, PPPoE, ARP, SNMP Password protection, complicated password, HTTPS encryption, IP address filter, Security Audit Log, basic and digest authentication for HTTP/HTTPS,</p>	16

	<p>TLS 1.1/1.2, WSSE and digest authentication for Open Network Video Interface  MicroSD/SDHC/SDXC card (256 GB) local storage, and NAS (NFS, SMB/CIFS), auto network replenishment (ANR)  Together with high-end Hikvision memory card, memory card encryption and health detection are supported.  BLC, HLC, 3D DNR  Alarm 1 input, 1 output (max. 12 VDC, 30 mA)  Motion detection (human and vehicle targets classification), video tampering alarm,  Exception  Unattended baggage detection, object removal detection, scene change detection,  audio exception detection  Face Capture  Upload to NAS/memory card/FTP, notify surveillance center, trigger recording, trigger capture, send email, audible warning  Aluminum alloy body  FCC SDoC (47 CFR Part 15, Subpart B);  CE-EMC (EN 55032: 2015, EN61000-3-2: 2014, EN 61000-3-3: 2013, EN 50130-4: 2011 +A1: 2014);  RCM (AS/NZS CISPR 32: 2015);  IC VoC (ICES-003: Issue 6, 2016);  KC (KN 32: 2015, KN 35: 2015)  UL (UL 60950-1);  CB (IEC 60950-1:2005 + Am 1:2009 + Am 2:2013, IEC 62368-1:2014);  CE-LVD (EN 60950-1:2005 + Am 1:2009 + Am 2:2013, IEC 62368-1:2014);  BIS (IS 13252(Part 1):2010+A1:2013+A2:2015);  LOA (IEC/EN 60950-1)  IP67 (IEC 60529-2013)</p>	
<b>STORAGE AND ACCESSORIES</b>		
1	<p>HIK CENTRAL – STORAGE /256 or equivalent to support 256 Cameras recording &amp; surveillance system support entire solution &amp; 16 SATA hard drive  Quad-Core Intel® Xeon® Processor E3 V5 Series  16GB DDR4. ECC parity. Extendable up to 64 GB  Multi-address/net fault-tolerance mode: 768 Mbps;  Load balancing mode: 1,000 Mbps  256 storage channels  4 × RJ45 10M/100M/1000M self-adaptive Ethernet interface  RAID0, RAID1, RAID5, RAID6, RAID10, RAID50, RAID60, JBOD  Industrial-level SSD with 128 GB capacity  16 SATA interfaces supporting hot-swapping (except the HDD at the</p>	01

	<p>first slot which contains the system disk)  1 eSATA interface  Up to 10 TB capacity for each disk  Front panel: 2 × USB 2.0;  Rear panel: 2 × USB 3.0  Alarm IN/out 16/8  Live View and Playback  Custom window division configurable  Viewing maps and real-time events during live view and playback  Adding tags during playback and playing tagged video  Transcoded playback, frame- extracting playback, and stream type self-adaptive  Fisheye Dewarping  Visual Tracking  Recording and Storage  Recording schedule for continuous recording, event recording and command recording  Storing videos on encoding devices, Hybrid SANs, and cloud storage servers  Providing main storage and auxiliary storage  Providing video copy-back  Storing alarm pictures on NVRs, Hybrid SANs, cloud storage servers, or system management server  Cameras 256  Alarm Inputs 64  Alarm Outputs 64  ANPR Cameras 32  Facial Recognition Cameras 16  Security Radars and Radar PTZ Cameras 16  Recording Server 16  People Counting Cameras 16  Heat Map Cameras 16  Thermal Cameras 16  Queue Management Cameras 16  Recording  Recording Schedule 64  Recording Schedule Template 32  Event &amp; Alarm  Event and Alarm Rules 1,500  Storage of Events or Alarms without Pictures 100/s  Events or Alarms Sent to Clients 15/s 32 Clients/s  Users and Roles  Concurrent Accesses via Web Clients, Control Clients, and OpenAPI Clients  32  Concurrent Accesses via Mobile Clients and OpenAPI Clients 32  Users 256  Roles 32  Face Comparison  Persons with Profiles for Face Comparison 10,000</p>	
--	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--

	<p>Face Comparison Groups 16  Persons in One Face Comparison Group 1,000  Access Control  Persons with Credentials for Access Control 10,000  Total Credentials (Card + Fingerprint) 50,000  Cards 50,000  Fingerprints 40,000  Profile Pictures 10,000  Access Points (Doors + Outdoor Station) 128  Access Levels 256  Time and Attendance  Persons for Time and Attendance 10,000  Shift Schedules 128  Major Leave Types 64  Minor Leave Types of One Major Type 128  Smart Wall  Decoding Devices 32  Smart Walls 32  Views Auto-Switched Simultaneously 32</p>	
2	<p>Cat 6 UTP cable 23 AWG DS-1LN6-UU or equivalent  Conductor: Stranded Bare Copper (7 x 32 AWG) 2. Insulation : HDPE (CMI-75E) Nominal Wall Thickness: 0.178mm Min. Thickness: 0.153mm 3. Color Code: Pair 1: Blue &amp; White/Blue Pair 2: Orange &amp; White/Orange Pair 3: Green &amp; White/Green Pair 4: Brown &amp; White/Brown 4. Jacket (Grey): 75°C LSZH Compound Nominal Wall Thickness: 0.585mm Min. Thickness: 0.458mm Overall Diameter: 5.8mm ± 0.3mm 5. Electric Requirements: (Cable length: 100m) Characteristic Impedance(<math>Z_0</math>): 85~115<math>\Omega</math> (1~250 MHz) DC. Resistance Capacitance Unbalance: 5%</p>	37
3	<p>3000 faces supported Access Control Device or DS-K1T341AMF  Face recognition terminal adopts a deep learning algorithm, which helps to recognize the face faster with higher accuracy. It also supports multiple authentication modes: face/card/fingerprint authentication, etc. It can be applied in multiple scenarios, such as buildings, enterprises, financial industries, and other important areas. v Face mask wearing alert: If the recognizing face does not wear a mask, the device will prompt a voice reminder. At the same time, the authentication or attendance is valid v Forced mask wearing alert: If the recognizing face does not wear a mask, the device will prompt a voice reminder. At the same time, the authentication or attendance will be failed v Max.3000 faces capacity, Max.3000 fingerprints capacity, and Max.3000 cards v Face Recognition Terminal, 4.3-inch LCD touch screen, 2 Mega pixel wide-angle lens, built-in Mifare card reading module v Two-way audio with client software, indoor station, and master station Supports TCP/IP v Supports ISUP5.0, ISAPI v Configuration via the web client v Face recognition. Distance: 0.3 m to 1.5 m v Duration &lt; 0.2 s/User v Accuracy rate <math>\geq</math> 99%; IP65 v Specification Display Dimensions</p>	1

	<p>4.3-inch Type LCD Operation method Capacitive touch screen Video Pixel 2 MP Lens × 2 Audio Tone quality Noise suppression and echo cancellation Network Wired network 10 M/100 M/1000 M self-adaptive Communication protocol SDK; ISUP; ISAPI; HTTPS; Hik Central Pro Open API; Hik-Pro Connect Open API</p> <p>SUPPORTED NVR &amp; SURVEILLANCE SYSTEM</p>	
4	<p>JOY STICK FOR PTZ CAMERAS DS-1600KI (B) or equivalent 10.1" capacitive touch screen; λ Detachable design of the touch screen and joystick; λ Wired and WiFi network connection; λ POE power supply; λ Capable of decoding 2-ch at 1080P decoding; up to 16-division window display; λ Live view on touch panel; λ DVI and HDMI output to monitor; λ Controllable of 8000 devices; λ Access to Hikvision products including DVR, DVS, NVR, network camera, speed dome, etc.; λ Control of MVC and decoders for video decoding and output on video wall; λ Accessible to HikCentral λ Add cameras in batches by importing an Excel file from a USB drive λ PTZ control, setting and calling preset, patrol and pattern; λ Support upgrade and configuration files import/export by USB flash disk; λ Support recording and picture capturing; saving files in USB flash disk or uploading to FTP server; λ Two-level user authority and up to 32 user accounts are configurable: one admin and 31 operators.</p> <p>Operating System Android 6.0 TFT LCD Screen 10.1" TFT LCD touchscreen Resolution: 1280 × 800 Joystick 4-axis joystick Local Decoding Local live view at 1080P/720P/HD1/BCIF/CIF/QCIF resolution, and up to 16-division window display Two-way Audio Input 1-ch, 3.5mm connector (2.0Vp-p, &gt;1kΩ) Audio Output 1-ch, 3.5mm connector (2.0 Vp-p, 600 Ω) Network Interface 10M/100M/1000M Adaptive Ethernet port WiFi Supported USB Interface USB 2.0 × 2 Video Interface HDMI, DVI Power Supply 12V DC /POE</p> <p>In addition to displaying images, the 10.1" capacitive touchscreen supports DVI and HDMI video output.</p> <p>It runs on Android and has the brand new UI interaction design. It also supports all series of front-end and back-end devices of Hikvision, as well as control center devices such as video management platform (VMS). It has open settings of the monitoring point number, and users can arrange the numbers freely as needed. In application, users can call the numbers quickly to display the video on the video wall, or output videos to the touchscreen or external displays. It supports recording, picture capturing and two-way audio, as well as the screen control and scene switch of VMS and decoding device.</p> <p>The 4-axis joystick can be used to the PTZ control to locate the target quickly.</p> <p>The joystick panel is detachable for the convenience of user operation. This keyboard can be widely used in public security and finance and other fields</p>	1

5	<p>55 INCHES 4K SMART TV UA55AU7000UXMM or equivalent</p> <p>Display Screen Size 55", Resolution 3,840 x 2,160 (4K) Video Picture Engine UHD Engine Motion Rate 100 PQI (Picture Quality Index) 1300 HDR (High Dynamic Range) HDR ,HDR 10+ HLG (Hybrid Log Gamma) Contrast Mega Contrast Color PurColor Micro Dimming UHD Dimming Contrast Enhancer Auto Motion Plus Film Mode Natural Mode Support Audio Dolby Digital Plus Sound Output (RMS) 20 W Speaker Type 2CH Multiroom Link Smart Service Samsung SMART TV Smart or equivalent Web Browser SmartThings App Support Convergence Mobile to TV - Mirroring, DLNA 360 Video Player 360 Camera Support WiFi Direct Differentiation Dongle Compatibility (3G / LTE / WiFi) Analog Clean View Triple Protection Tuner/Broadcasting Digital Broadcasting DVB-T2 Analog Tuner TV Key Support Connectivity HDMI 3 USB 2 Component In (Y/Pb/Pr) 1 Composite In (AV) 1 (Common Use for Component Y)</p>	07
---	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----

<p>           Ethernet (LAN)            Digital Audio Out (Optical) 1            RF In (Terrestrial / Cable input)            1/1(Common Use for Terrestrial)/0            HDMI A / Return Ch. Support            HDMI Quick Switch            Wireless LAN Built-in            Anynet+ (HDMI-CEC)            Design            Design            New Edge (Skinny Bezel)            Bezel Type            VNB            Slim Type            Slim            Front Color            Charcoal Black            Stand Type            SIMPLE LUMINUS            Additional Feature            Processor            Quad-Core            Accessibility            Voice guide(AU English)/ Enlarge/ High contrast/ Learn TV            Remote(AU English)            Digital Clean View            Auto Channel Search            Auto Power Off            Caption (Subtitle)            Connect Share™ (HDD)            ConnectShare™ (USB 2.0)            EPG            Game Mode            Yes (Basic)            OSD Language            Local Languages            USB HID Support            Teletext (TTX)            IPv6 Support            Power Supply            AC100-240V 50/60Hz            Power Consumption (Max) 150 W            Dimension            Package Size (WxHxD)            1396 x 852 x 158 mm            Set Size with Stand (WxHxD)            1238.6 x 792.8 x 261.3 mm            Set Size without Stand (WxHxD)            1238.6 x 714.2 x 59.2 mm            Stand (Basic) (WxD)         </p>	
------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--



	<p>969.6 x 261.3 mm  Weight  Package Weight  23.40 kg  Set Weight with Stand  17.70 kg  Set Weight without Stand  17.3 kg  Accessory  Remote Controller Model  TM1240A  Batteries (for Remote Control), Mini Wall Mount Support, Vesa Wall Mount Support, User Manual, E-Manual, Power Cable</p>	
6	<p>8 PORT GIGABIT POE SWITCH WITH 2 SFP  DS-3E1510P-SI or equivalent  8 × gigabit PoE ports, and 2 × gigabit fiber optical ports. v IEEE 802.3at/af standard for PoE ports. v Network topology management, alarm push, network health monitor. v 6 KV surge protection for PoE ports. v AF/AT camera can reach up to 300 m in extend mode. v PoE watchdog to auto detect and restart the cameras that do not respond. v Various layer 2 management protocols such as STP/RSTP, VLAN, link aggregation, SNMP, QoS .  PoE Standard IEEE 802.3af, IEEE 802.3at PoE Power Pin End-span: 1/2(-), 3/6(+) Mid-span: 4/5(+), 7/8(-) 8-pin power: 1/2(-), 3/6(+), 4/5(+), 7/8(-) PoE Port PoE: Ports 1 to 8 Max. Port Power Port 1 to 8: 30 W PoE Power Budget 110 W Network Parameters Port Number 8 × gigabit PoE port, and 2 × gigabit fiber optical port Port Type RJ45 port, full duplex, MDI/MDI-X adaptive Standard IEEE 802.3, IEEE 802.3u, IEEE 802.3x, IEEE 802.3ab, and IEEE 802.3z Forwarding Mode Store-and-forward switching Working Mode Standard mode (default) Extend mode MAC Address Table 8 K Switching Capacity 20 Gbps Packet Forwarding Rate 14.88 Mpps Internal Cache 4.1 Mbits Software Function Device Maintenance Remote upgrade, default parameters recovery, logs viewing, basic network parameters configuration, import and export configuration, time sync Port Configuration Port rate configuration, flow control, and ports enabling Long Range Up to 300 m transmission PoE Configuration PoE watchdog: Ports 1 to 8 auto detect and restart the cameras that do not respond. PoE enabling: Support Port Rate-Limiting Rate-limiting for ingress and egress ports Storm Control Storm control of unknown unicast, multicast and broadcast</p>	10
7	<p>16 PORT GIGABIT POE SWITCH WITH 2 SFP  DS-3E1518P-SI  16 × gigabit PoE ports, and 2 × gigabit fiber optical ports. v IEEE 802.3at/af standard for PoE ports. v Network topology management, alarm push, network health monitor. v 6 KV surge protection for PoE ports. v AF/AT camera can reach up to 300 m in extend mode. v PoE watchdog to auto detect and restart the cameras that do not respond.</p>	10

	<p>v Various layer 2 management protocols such as STP/RSTP, VLAN, link aggregation, SNMP, QoS</p> <p>PoE Standard IEEE 802.3af, IEEE 802.3at PoE Power Pin End-span: 1/2(-), 3/6(+) Mid-span: 4/5(+), 7/8(-) 8-pin power: 1/2(-), 3/6(+), 4/5(+), 7/8(-) PoE Port PoE: Ports 1 to 16 Max. Port Power Port 1 to 16: 30 W PoE Power Budget 225 W</p> <p>Network Parameters Port Number 16 × gigabit PoE port, and 2 × gigabit fiber optical port Port Type RJ45 port, full duplex, MDI/MDI-X adaptive Standard IEEE 802.3, IEEE 802.3u, IEEE 802.3x, IEEE 802.3ab, and IEEE 802.3z Forwarding Mode Store-and-forward switching Working Mode Standard mode (default)</p> <p>Extend mode MAC Address Table 8 K Switching Capacity 36 Gbps Packet Forwarding Rate 26.784 Mpps Internal Cache 4.1 Mbits Software Function Device Maintenance Remote upgrade, default parameters recovery, logs viewing, basic network parameters configuration, import and export configuration, time sync Port Configuration Port rate configuration, flow control, and ports enabling Long Range Up to 300 m transmission PoE Configuration PoE watchdog: Ports 1 to 16 auto detect and restart the cameras that do not respond. PoE enabling: Support Port Rate-Limiting Rate-limiting for ingress and egress ports Storm Control Storm control of unknown unicast, multicast and broadcast</p> <p>Port Mirroring Support Link Aggregation Static link aggregation supported Port Isolation Ports in isolation group cannot communicate with each other.</p> <p>QoS WRR and SP scheduling and port priority VLAN 4094 VLANs STP STP and RSTP protocols SNMP SNMPv1 and SNMPv2c supported for obtaining node information of the system and interfaces LLDP LLDP protocol supported for port configuration, global configuration and neighbor discovery</p>	
8	<p>12 core single mode fiber optic cable</p> <p>Two parallel steel wires are placed at the two sides of the steel tape, The cable is completed with a single polyethylene (PE) sheath. The tube is wrapped with a layer of PSP longitudinally, with excellent crush-resistant performance</p> <p>Between the PSP and the loose</p>	2600 (meters)
9	<p>CAT 6 PATCH PANNEL</p> <p>Range Digilink Product or component type Patch panel Provided equipment With RJ45 connectors Communication network category 6 Accessory / separate part designation Insulation displacement connector Cable shielding type UTP Number of port 24 Complementary Connector type RJ45 Minimum number of matings 750 cycles [In] rated current 1.5 A Insulation resistance &gt;= 500 mOhm at 500 V DC Contact resistance 20 mOhm Material Panel: steel powder coated Contacts material Phosphor bronze with 50 micro-inches gold over 100 micro-inches nickel Width 482.6 mm</p>	1

	Height 44.2 mm Number of rack unit 1U Environment Environmental characteristic Flame retardant Product certifications UL listed UL/ETL verified Standards ANSI/TIA-568-C.2 ISO/IEC 11801 class E EIA/TIA TSB 40	
10	Cat6 cable manager CAT 6 cable manager supported with cable ties	1
11	CAT6 PATCH CORD 1 METER Cat6 UTP NV patch cords are designed for high-speed applications such as ATM 622 Mbps, Gigabit Ethernet 1000 Mbps and future high-speed applications. ... With Precession Placement Technology (PPT), the Cat6 Plug ensures high-repeatability Cross-Talk performance, with both factory and field termination	24
12	FIBER PIGTAIL Single mode ,10G supported	160
13	CONDUIT & HD PIPE Complete conduit &hd pipe installation with all accessories included joints , bends , tee ,screw ,ties	1 job as per design
14	MS POLE 15 & 10 FEET Respect as design installed with all civil work and galvanized, rust proof, 4 inches dia in bottom and 2 inches dia in top	14
15	SFP MOUDULES 1GIG FOR NETWORK SWITCHES The 1000BASE-LX/LH SFP, compatible with the IEEE 802.3z 1000BASE-LX standard, operates on standard single-mode fiber-optic link spans of up to 10 km and up to 550 m on any multimode fibers. When used over legacy multimode fiber type, the transmitter should be coupled through a mode conditioning patch cable Single LC/PC connector (1000BASE-BX-D and 1000BASE-BX-U)	42
16	Computer core i5 with LED 21INCH FOR CONTROL ROOM CPU core i5 ,8GB ram ,1TB harddrive ,11 Generation HD quality display at multiple angles with VESA-mount compatibility and tilt options, as well as VGA and DisplayPort connectivity. Dependable performance: Uncompromising quality testing standards with 3-year warranty and service ensure long-term performance. Eco-conscious design: Save energy with power-efficient features.	05
17	FIBER PATCH CORD 3 METER single mode fiber optic patch cord are with 9/125 fiber glass and is yellow jacket	42
18	DATA CABINET 42U RACK FOR CONTROL ROOM Reliable structure, static loading capacity:600-800KG (Optional castors and plinth) Adjustable feet and heavy duty castors are available simultaneously, moving conveniently and fixing reliably.	01

	<p>Glass front door and rear metal door or high density vented front and rear doors, meeting the requirements of mechanical protection and ventilation.</p> <p>Optional cable entry on top cover and bottom panel. Front, rear door and side panel can be removed facility, the bottom has the function of ventilation and rat-proof.</p> <p>Varies optional accessories, reliable quality.</p> <p>Optional opening hole and varies specification upon customers' special requirements. 42U 3 depth options – 600, 800 and 1000 mm</p>	
19	<p>CCTV CABINET FOR OUT DOOR</p> <p>Cabinet for outdoor required with 2 fans ,weather proof , water proof included installation with civil work</p>	05
20	<p>CCTV CABINET FOR INDOOR</p> <p>CABINET HAVE GLASS DOOR WITH 2 FANS RUST PROOF 18 GAGE INCLUDING INSTALLATION &amp; ALL RESPECTS</p>	14
21	<p>FIBER ODF 24PORT</p> <p>FIBER ODF SCHINDER WITH COUPLES AND MOUNTION KIT</p>	04
22	<p>FIBER ODF 04 PORT</p> <p>FIBER ODF WITH COUPLES AND MOUNTING KIT china</p>	19
23	<p>UPS 10KVA/10KW</p> <p>10 kva srt10000</p> <p>APC Smart-UPS SRT 10000VA 230V</p> <p>Input voltage limits: 100...275 V</p> <p>Input voltage: 230 V, 400 V 3 phases</p> <p>Rated power in W: 10000W</p> <p>Output frequency 50/60 Hz +/- 3 Hz sync to mains</p> <p>Output voltage 220 V, 240V</p> <p>Crest factor 3 : 1</p> <p>UPS type Double conversion online</p> <p>Wave type Sine wave</p> <p>Output connector type Hard wire 3-wire (H N + E) 1</p> <p>Bypass type Internal bypass (automatic and manual)</p> <p>Curve equation Efficiency</p> <p>Curve X-axis title Load</p> <p>Curve Y-axis maximum 100 %</p> <p>Curve Y-axis title Efficiency</p> <p>Heat dissipation 1947 Btu/h</p> <p>Show note OP temperature No</p> <p>Storage Relative Humidity 0...95 % Non-condensing</p> <p>Operating altitude 0...10000 ft</p> <p>BACKUP TIME 30 MIN</p>	01
24	<p>UPS 1200VA</p> <p>Line-intrective UPS</p> <p>APC Power-Saving Back-UPS Pro 1200, 230V</p> <p>Output power capacity 720 Watts / 1.2kVA</p>	19

	Max Configurable Power (Watts) 720 Watts / 1.2kVA Nominal Output Voltage 230V Load Crest Factor 3 : 1 Topology Line interactive Waveform type Stepped approximation to a sinewave Output Connections (5) IEC 60320 C13 (5) IEC 60320 C13 (2) IEC Jumpers Nominal Input Voltage 230V Input frequency 50/60 Hz +/- 3 Hz Auto-sensing Input Connections IEC 60320 C14 Input voltage range for main operations 156 - 300 Adjustable BACKUP TIME 30 MINUTES	
25	FIBER SPLICING	300
26	CIVIL WORK DIGGING FOR FIBER 4 FEET DEPTH 1 FEET WIDTH WITH BRICKS , SAND & MARKING TAPE	800 Meters
27	POWER CABLING 7/36 TWO core power cable 99.9% copper provided, laying, installation with all respect	As per design
28	CAT 6 & FIBER CABLE LAYING INCLUDED LAYING , PUNCHING , DRESSING,TAGGING ,TESTING WITH ALL RESPECT	As per design
29	SURVEILLANCE GRADE HARD DRIVE 8TB	16

**D) Installation, Configuration and Commissioning:**

The bidder shall be responsible for timely supply of equipment, installation, configuration and commissioning of the equipment. ***Cabling map and network diagram shall be provided after completion of installation in printed and soft form accepted by the Procuring Agency. The system should support connectivity with SAN/NAS for easy archival of old data.***

**E) Training:**

The bidder shall be responsible for conducting training of staff as specified by the Procuring Agency. There shall be a session of 'Train the Trainers' where specific focus shall be on the hands-on training of specified staff of the Procuring Agency.

**F) Repairs, Trouble-Shooting and Warranty replacement:**

The bidder shall be responsible for repair and maintenance issues that may arise during the first two years after installation. Trouble-shooting of software components, hardware components shall be provided by the bidder with a turn-around time of less than 24 hours through a dedicated resource. The bidder shall be responsible for claiming warranty and replacing any items during its warranty period if there is any need for replacement as specified by the Procuring Agency.



## 19. ANNEX-B

### FORM OF FINANCIAL BID (Amount in PKR)

According to the Clause 30, sub-clause (2) of PPRA Rules, 2004, the following shall be observed while submitting the financial bids:

*“For the purposes of comparison of bids quoted in different currencies, the price shall be converted into a single currency specified in the bidding documents. The rate of exchange shall be the selling rate, prevailing on the date of opening of bids specified in the bidding documents, as notified by the State Bank of Pakistan on that day.”*

S.No	Item Description	Quantity	Unit Price	Total Amount WITHOUT Tax	Admissible Tax as per law	Total Amount WITH Tax
<b>CAMERA</b>						
1	4MP COLOR CAMERA WITH 30 METER IR 1/2.7" Progressive Scan CMOS Color: 0.001 Lux @ (F1.0, AGC ON) 1/3 s to 1/100,000 s 120 dB Up to 30 m Smart Supplement White Light 25 fps (2304 × 1296, 1920 × 1080, 1280 × 720) 25 fps (640 × 480, 640 × 360, 320 × 240) Mainstream: H.265+/H.265/H.264+/H.264 32 kbps to 8 Mbps TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, NTP, UPnP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour, SSL/TLS	82				

	<p>Password protection, complicated password, HTTPS encryption, IP address filter, Security Audit Log, basic and digest authentication for HTTP/HTTPS BLC, HLC, 3D DNR</p> <p>Line crossing detection, intrusion detection, Motion detection, video tampering alarm, exception (illegal login), Anti-flicker, heartbeat, mirror, privacy masks, password reset via e-mail, pixel counter</p> <p>FCC (47 CFR Part 15, Subpart B); CE-EMC (EN 55032: 2015, EN 61000-3-2: 2014, EN 61000-3-3: 2013, EN 50130-4: 2011 +A1: 2014); RCM (AS/NZS CISPR 32: 2015); IC (ICES-003: Issue 6, 2016); KC (KN 32: 2015, KN 35: 2015) UL (UL 60950-1); CB (IEC 60950-1:2005 + Am 1:2009 + Am 2:2013, IEC 62368-1:2014); CE-LVD (EN 60950-1:2005 + Am 1:2009 + Am 2:2013, IEC 62368-1:2014); BIS (IS 13252(Part 1):2010+A1:2013+A2:2015) CE-RoHS (2011/65/EU); WEEE (2012/19/EU); Reach (Regulation (EC) No 1907/2006) Ingression protection: IP67 (IEC 60529-2013)</p>					
2	<p>5MP Bullet camera with 40 Meter IR 1/2.7" Progressive Scan CMOS 2560 × 1920 Color: 0.005 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR 1/3 s to 1/100, 000 s</p> <p>Up to 40 m IR range 20 fps (2560 × 1920), 25 fps (2560 × 1440, 1920 × 1080, 1280 × 720) Main stream: H.265/H.264/H.265+/H.264+ TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, NTP, UPnP™, SMTP, IGMP, 802.1X, QoS, IPv6, Bonjour, IPv4, UDP, SSL/TLS Saturation, brightness, contrast, sharpness, AGC, white balance</p>	20				



	<p>adjustable by client software or web browser  120 dB  BLC, HLC, 3D DNR  Motion detection, video tampering alarm, exception  Line crossing detection, intrusion detection  Upload to FTP, notify surveillance center, send email, trigger capture  Anti-flicker, heartbeat, mirror, password protection, privacy mask, watermark, IP address filter  FCC SDoC (47 CFR Part 15, Subpart B); CE-EMC (EN 55032: 2015, EN 61000-3-2:2019, EN 61000-3-3:2013+A1:2019, EN 50130-4: 2011 +A1: 2014); KC (KN 32: 2015, KN 35: 2015)  UL (UL 62368-1) CB (IEC 62368-1: 2014+A11) CE-LVD (EN 62368-1: 2014/A11: 2017) BIS (IS 13252 (Part 1): 2010/IEC 60950-1: 2005)  CE-RoHS (2011/65/EU); WEEE (2012/19/EU); Reach (Regulation (EC) No 1907/2006)  IP67 (IEC 60529-2013)</p>					
3	<p>5MP BULLET WITH 90 METER IR  DS-2CD3T56G2-41S© or equivalent  1/2.7" Progressive Scan CMOS  Color: 0.003 Lux @ (F1.4, AGC ON), B/W: 0 Lux with IR  1/3 s to 1/100,000 s  120 dB  Up to 90 m smart supplement IR light  Support 4 streams (Main, Sub, Third and Fourth)  25 fps (2592 × 1944, 2688 × 1520, 1920 × 1080, 1280 × 720)  Main stream: H.265/H.264/H.264+/H.265+  32 Kbps to 16 Mbps  G.711ulaw/G.711alaw/G.722.1/G.726/MP2L2/PCM/MP3/AAC  64 Kbps (G.711ulaw/G.711alaw)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 to 192 Kbps (MP2L2)/8 to 320 Kbps (MP3)/16 to 64 Kbps (AAC)</p>	22				

<p>Open Network Video Interface (PROFILE S, PROFILE G, PROFILE T), ISAPI, SDK, ISUP  TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, NTP, UPnP, SMTP,  IGMP, 802.1X, QoS, IPv4, IPv6, UDP, Bonjour, SSL/TLS, PPPoE, ARP, SNMP  Password protection, complicated password, HTTPS encryption, IP address filter,  Security Audit Log, basic and digest authentication for HTTP/HTTPS, TLS 1.1/1.2, WSSE  and digest authentication for Open Network Video Interface  MicroSD/SDHC/SDXC card (256 GB) local storage, and NAS (NFS, SMB/CIFS), auto  network replenishment (ANR)  Together with high-end Hikvision memory card, memory card encryption and health  detection are supported.  BLC, HLC, 3D DNR  Rotate mode, saturation, brightness, contrast, sha  Alarm 2 inputs, 2 outputs (max. 24 VDC, 1A)  Motion detection (human and vehicle targets classification), video tampering alarm,  Exception  Unattended baggage detection, object removal detection, scene change detection,  audio exception detection  Line crossing detection, intrusion detection, region entrance detection, region exiting  Detection  Upload to NAS/memory card/FTP, notify surveillance center, trigger recording, trigger  capture, send email, audible warning</p>					
---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--	--	--	--	--

	<p>FCC SDoC (47 CFR Part 15, Subpart B);  CE-EMC (EN 55032: 2015, EN 61000-3-2: 2019, EN 61000-3-3: 2013, EN 50130-4: 2011 +A1: 2014);  RCM (AS/NZS CISPR 32: 2015);  IC VoC (ICES-003: Issue 6, 2019);  KC (KN 32: 2015, KN 35: 2015)  UL (UL 60950-1);  CB (IEC 60950-1:2005 + Am 1:2009 + Am 2:2013, IEC 62368-1:2014);  CE-LVD (EN 60950-1:2006+A2:2013, IEC 62368-1:2014+A11:2017);  BIS (IS 13252(Part 1):2010+A1:2013+A2:2015);  LOA (SANS IEC60950-1)  CE-RoHS (2011/65/EU); WEEE (2012/19/EU);  Reach (Regulation (EC) No 1907/2006)  IP67 (IEC 60529-2013)</p>					
4	<p>4MP PTZ WITH 42X OPTICAL ZOOM  DS-2DF84421XS-AELW(T2)  1/1.8" progressive scan CMOS  Color: 0.002 Lux @ (F1.2, AGC ON) B/W: 0.0002 Lux @ (F1.2, AGC ON), 0 Lux with IR  1/1 s to 1/30,000 s  140 dB WDR  HLC ,  Yes. Built-in gyroscope to improve EIS performance  Regional Exposure  Regional Focus  White Balance  Digital Zoom 16 ×  Optical Zoom 42 ×</p>	07				

<p>Privacy Mask Up to 24 masks, polygon region, mosaic mask, mask color configurable</p> <p>General Function mirror, password protection, watermark, IP address filter</p> <p>Optical Defog 6.0 mm to 252 mm, 42 × Optical Approx. 4.5 s zoom speed -20° to 90° (auto flip) pan speed: configurable from 0.1° to 210°/s; preset speed: 280°/s tilt speed: configurable from 0.1° to 150°/s, preset speed 250°/s</p> <p>Proportional Zoom Presets 300 8 patrols, up to 32 presets for each patrol 4 pattern scans, record time over 10 minutes for each scan</p> <p>Power-off Memory Park Action preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan</p> <p>3D Positioning PTZ Status Display Preset Freezing Scheduled Task Preset, patternscan, patrolscan, autoscan, tiltscan, randomscan, framescan, panoramascan, domereboot, domeadjust, aux output</p> <p>Vandal-proof Alarm 60fps(2560×1440,1920×1080,1280×960,1280×720) dynamic face tracking, fixed-region, dynamic license plate tracking G.711alaw,G.711ulaw,G.722.1,G.726,MP2L2,PCM Support detecting up to 30 faces at the same time. Support detecting, tracking, capturing, grading, selecting of face in motion, and output the best face picture of the face.</p>					
------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--	--	--	--	--

	<p>Support vehicle detection (license plate number, vehicle model, and vehicle color recognition)  unattended baggage detection, object removal detection, Intrusion Detection, Line Crossing Detection, Region Entrance Detection, Region Exiting Detection, Audio Exception Detection  manual tracking, event tracking, auto-tracking  Alarm actions, such as Preset, Patrol Scan, Pattern Scan, Memory Card Video Record, Trigger Recording, Notify Surveillance Center, Upload to FTP/Memory Card/NAS, Send Email, etc.  IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP/IP, DHCP, PPPoE, UDP, IGMP, ICMP, Bonjour  ISAPI, Hikvision SDK, ONVIF (Profile S, Profile G, Profile T)  User authentication (ID and PW), Host authentication (MAC address); HTTPS encryption; IEEE 802.1x port-based network access control; IP address filtering  7 alarm inputs  2 alarm outputs  500 m IR distance  Lightning Protection, Surge Protection and Voltage Transient Protection, ±6kV Line to Gnd, ±3kV Line to Line, IEC61000-4-5, IP67 Standard, IK10</p>					
5	<p>4MP ANPR CAMERA  IDS-2CD7A46G0/P-IZHS(2.8-12MM) or equivalent  1/1.8" Progressive Scan CMOS  Color: 0.001 Lux @ (F1.2, AGC ON); B/W: 0.0003 Lux @ (F1.2, AGC ON)  1 s to 1/100,000 s  140 dB  2.8 to 12 mm: 50 m IR  Support Main stream/sub-stream/third stream/fourth stream/fifth</p>	06				

<p>stream/custom stream  25fps (2680 × 1520, 2560 × 1440, 1920 × 1080, 1280 × 720)  Main stream: H.265+/H.265/H.264+/ H.264  G.711/G.722.1/G.726/MP2L2/PCM/MP3  Up to 20 channels Simultaneous Live View  ONVIF (PROFILE S, PROFILE G, PROFILE T), ISAPI, SDK, ISUP  TCP/IP, ICMP, HTTP, HTTPS, FTP, SFTP, SRTP, DHCP, DNS, DDNS, RTP,  RTSP, RTCP, PPPoE, NTP,UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6,  UDP, Bonjour, SSL/TLS  Password protection, complicated password, HTTPS  encryption,802.1X authentication (EAP-TLS, EAP-LEAP, EAP-MD5),  watermark, IP address filter, basic and digest authentication for  HTTP/HTTPS, WSSE and digest authentication for ONVIF, RTP/RTSP  OVER HTTPS, Control Timeout Settings, Security Audit Log, TLS 1.2  microSD/SDHC/SDXC card (256 GB) local storage, and NAS (NFS,  SMB/CIFS), auto network replenishment (ANR) Together with  high-end Hikvision memory card, memory card encryption and  health detection are supported.  The IR LEDs on camera should support Smart IR function to  automatically adjust power to avoid image overexposure.  Day, Night, Auto, Schedule, Triggered by Alarm In, Triggered by Video  BLC, HLC, 3D DNR, Defog, EIS, Distortion Correction  Alarm 2 input, 2 outputs (max. 24 VDC, 1 A)  With -Y: 1 RS-485(half duplex, HIKVISION, Pelco-P, Pelco-D,  self-adaptive)  1 Vp-p Composite Output(75Ω/CVBS)(For debugging only)  Built-in micro SD/SDHC/SDXC slot, up to 256 GB  Motion detection, video tampering alarm, vibration detection,  exception (network disconnected, IP address conflict, illegal login,  HDD full, HDD error)  Line crossing detection, up to 4 lines configurable Intrusion  detection, up to 4 regions configurable Region entrance detection, up</p>					
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--	--	--	--	--

<p>to 4 regions configurable Region exiting detection, up to 4 regions configurable Unattended baggage detection, up to 4 regions configurable Object removal detection, up to 4 regions configurable Scene change detection, audio exception detection, defocus detection Line crossing, intrusion, region entrance, region exiting Support alarm triggering by specified target types (human and vehicle) Filtering out mistaken alarm caused by target types such as leaf, light, animal, and flag, etc.</p> <p>Blocklist and allowlist: up to 10000 records Captures vehicle that has no license plate Support license plate recognition of motorcycles (only in checkpoint scenario) Support vehicle attribute detection, including vehicle type, color, brand, etc. (City Street mode is recommended.)</p> <p>Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger alarm output, trigger recording, trigger capture Trigger recording: memory card, network storage, pre-record and post-record Trigger captured pictures uploading: FTP, SFTP, HTTP, NAS, Email Trigger notification: HTTP, ISAPI, alarm output, Email Aluminum alloy body</p> <p>Metadata of intrusion detection, line crossing detection, region entrance detection, region exiting detection, unattended baggage detection, object removal are supported.</p> <p>FCC (47 CFR Part 15, Subpart B); CE-EMC (EN 55032: 2015, EN 61000-3-2: 2014, EN 61000-3-3: 2013, EN 50130-4: 2011 +A1: 2014); RCM (AS/NZS CISPR 32: 2015); IC (ICES-003: Issue 6, 2016); KC (KN 32: 2015, KN 35: 2015)</p> <p>UL (UL 60950-1); CB (IEC 60950-1:2005 + Am 1:2009 + Am 2:2013); CE-LVD (EN 60950-1:2005 + Am 1:2009 + Am 2:2013); BIS (IS 13252(Part 1):2010+A1:2013+A2:2015); LOA (IEC/EN 60950-1) CE-RoHS (2011/65/EU); WEEE (2012/19/EU); Reach (Regulation (EC) No 1907/2006)</p> <p>IK10 (IEC 62262:2002), IP67 (IEC 60529-2013)</p>					
------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--	--	--	--	--

6	<p>4MP COLORV + ACUSENSE BULLET CAMERA WITH 40 METER WARM WHITE LIGHT DS-2CD3047G2-LS ( C ) or equivalent  1/1.8" Progressive Scan CMOS  Color: 0.0005 Lux @ (F1.0, AGC ON), 0 Lux with white light  130 dB  Warm white LEDs (3000 K) Up to 40 m  25 fps (2688 × 1520, 1920 × 1080, 1280 × 720)  Support Main stream/sub-stream/third stream/fourth stream  Main stream: H.265/H.264/H.264+/H.265+  32 Kbps to 8 Mbps  Environment Noise Filtering  64 Kbps (G.711ulaw/G.711alaw)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 to 192 Kbps (MP2L2)/8 to 320 Kbps (MP3)/16 to 64 Kbps (AAC)  TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, NTP, UPnP, SMTP, IGMP, 802.1X, QoS, IPv4, IPv6, UDP, Bonjour, SSL/TLS, PPPoE, ARP, SNMP  Password protection, complicated password, HTTPS encryption, IP address filter,  Security Audit Log, basic and digest authentication for HTTP/HTTPS, TLS 1.1/1.2, WSSE  and digest authentication for Open Network Video Interface  MicroSD/SDHC/SDXC card (256 GB) local storage, and NAS (NFS, SMB/CIFS), auto  network replenishment (ANR)  Together with high-end Hikvision memory card, memory card encryption and health  detection are supported.  BLC, HLC, 3D DNR  Alarm 1 input, 1 output (max. 12 VDC, 30 mA)  Motion detection (human and vehicle targets classification), video tampering alarm,</p>	16				
---	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----	--	--	--	--



	<p>Exception Unattended baggage detection, object removal detection, scene change detection, audio exception detection Face Capture Upload to NAS/memory card/FTP, notify surveillance center, trigger recording, trigger capture, send email, audible warning Aluminum alloy body FCC SDoC (47 CFR Part 15, Subpart B); CE-EMC (EN 55032: 2015, EN61000-3-2: 2014, EN 61000-3-3: 2013, EN 50130-4: 2011 +A1: 2014); RCM (AS/NZS CISPR 32: 2015); IC VoC (ICES-003: Issue 6, 2016); KC (KN 32: 2015, KN 35: 2015) UL (UL 60950-1); CB (IEC 60950-1:2005 + Am 1:2009 + Am 2:2013, IEC 62368-1:2014); CE-LVD (EN 60950-1:2005 + Am 1:2009 + Am 2:2013, IEC 62368-1:2014); BIS (IS 13252(Part 1):2010+A1:2013+A2:2015); LOA (IEC/EN 60950-1) IP67 (IEC 60529-2013)</p>					
<b>STORAGE AND ACCESSORIES</b>						
1	<p>HIK CENTRAL – STORAGE /256 or equivalent to support 256 Cameras recording &amp; surveillance system support entire solution &amp; 16 SATA hard drive Quad-Core Intel® Xeon® Processor E3 V5 Series 16GB DDR4. ECC parity. Extendable up to 64 GB</p>	01				

<p>Multi-address/net fault-tolerance mode: 768 Mbps;  Load balancing mode: 1,000 Mbps  256 storage channels  4 × RJ45 10M/100M/1000M self-adaptive Ethernet interface  RAID0, RAID1, RAID5, RAID6, RAID10, RAID50, RAID60, JBOD  Industrial-level SSD with 128 GB capacity  16 SATA interfaces supporting hot-swapping (except the HDD at the first slot which contains the system disk)  1 eSATA interface  Up to 10 TB capacity for each disk  Front panel: 2 × USB 2.0;  Rear panel: 2 × USB 3.0  Alarm IN/out 16/8  Live View and Playback  Custom window division configurable  Viewing maps and real-time events during live view and playback  Adding tags during playback and playing tagged video  Transcoded playback, frame- extracting playback, and stream type self-adaptive  Fisheye Dewarping  Visual Tracking  Recording and Storage  Recording schedule for continuous recording, event recording and command recording  Storing videos on encoding devices, Hybrid SANs, and cloud storage servers  Providing main storage and auxiliary storage  Providing video copy-back  Storing alarm pictures on NVRs, Hybrid SANs, cloud storage servers, or system management server  Cameras 256  Alarm Inputs 64</p>					
-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--	--	--	--	--

Alarm Outputs 64 ANPR Cameras 32 Facial Recognition Cameras 16 Security Radars and Radar PTZ Cameras 16 Recording Server 16 People Counting Cameras 16 Heat Map Cameras 16 Thermal Cameras 16 Queue Management Cameras 16 Recording Recording Schedule 64 Recording Schedule Template 32 Event & Alarm Event and Alarm Rules 1,500 Storage of Events or Alarms without Pictures 100/s Events or Alarms Sent to Clients 15/s 32 Clients/s Users and Roles Concurrent Accesses via Web Clients, Control Clients, and OpenAPI Clients 32 Concurrent Accesses via Mobile Clients and OpenAPI Clients 32 Users 256 Roles 32 Face Comparison Persons with Profiles for Face Comparison 10,000 Face Comparison Groups 16 Persons in One Face Comparison Group 1,000 Access Control Persons with Credentials for Access Control 10,000 Total Credentials (Card + Fingerprint) 50,000 Cards 50,000 Fingerprints 40,000					
------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--	--	--	--	--

	Profile Pictures 10,000 Access Points (Doors + Outdoor Station) 128 Access Levels 256 Time and Attendance Persons for Time and Attendance 10,000 Shift Schedules 128 Major Leave Types 64 Minor Leave Types of One Major Type 128 Smart Wall Decoding Devices 32 Smart Walls 32 Views Auto-Switched Simultaneously 32					
2	Cat 6 UTP cable 23 AWG DS-1LN6-UU or equivalent Conductor: Stranded Bare Copper (7 x 32 AWG) 2. Insulation : HDPE (CMI-75E) Nominal Wall Thickness: 0.178mm Min. Thickness: 0.153mm 3. Color Code: Pair 1: Blue & White/Blue Pair 2: Orange & White/Orange Pair 3: Green & White/Green Pair 4: Brown & White/Brown 4. Jacket (Grey): 75°C LSZH Compound Nominal Wall Thickness: 0.585mm Min. Thickness: 0.458mm Overall Diameter: 5.8mm ± 0.3mm 5. Electric Requirements: (Cable length: 100m) Characteristic Impedance( $Z_0$ ): 85~115 $\Omega$ (1~250 MHz) DC. Resistance Capacitance Unbalance: 5%	37				
3	3000 faces supported Access Control Device or DS-K1T341AMF Face recognition terminal adopts a deep learning algorithm, which helps to recognize the face faster with higher accuracy. It also supports multiple authentication modes: face/card/fingerprint authentication, etc. It can be applied in multiple scenarios, such as buildings, enterprises, financial industries, and other important areas. v Face mask wearing alert: If the recognizing face does not	1				

	<p>wear a mask, the device will prompt a voice reminder. At the same time, the authentication or attendance is valid v Forced mask wearing alert: If the recognizing face does not wear a mask, the device will prompt a voice reminder. At the same time, the authentication or attendance will be failed v Max.3000 faces capacity, Max.3000 fingerprints capacity, and Max.3000 cards v Face Recognition Terminal, 4.3-inch LCD touch screen, 2 Mega pixel wide-angle lens, built-in Mifare card reading module v Two-way audio with client software, indoor station, and master station Supports TCP/IP v Supports ISUP5.0, ISAPI v Configuration via the web client v Face recognition. Distance: 0.3 m to 1.5 m v Duration &lt; 0.2 s/User v Accuracy rate ≥ 99%; IP65 v Specification Display Dimensions 4.3-inch Type LCD Operation method Capacitive touch screen Video Pixel 2 MP Lens × 2 Audio Tone quality Noise suppression and echo cancellation Network Wired network 10 M/100 M/1000 M self-adaptive Communication protocol SDK; ISUP; ISAPI; HTTPS; Hik Central Pro Open API; Hik-Pro Connect Open API SUPPORTED NVR &amp; SURVEILLANCE SYSTEM</p>					
4	<p>JOY STICK FOR PTZ CAMERAS DS-1600KI (B) or equivalent 10.1" capacitive touch screen; λ Detachable design of the touch screen and joystick; λ Wired and WiFi network connection; λ POE power supply; λ Capable of decoding 2-ch at 1080P decoding; up to 16-division window display; λ Live view on touch panel; λ DVI and HDMI output to monitor; λ Controllable of 8000 devices; λ Access to Hikvision products including DVR, DVS, NVR, network camera, speed dome, etc.; λ Control of MVC and decoders for video decoding and output on video wall; λ Accessible to HikCentral λ Add cameras in batches by importing an Excel file from a USB drive λ PTZ control, setting and calling preset, patrol and pattern; λ Support upgrade and</p>	1				

	<p>configuration files import/export by USB flash disk; λ Support recording and picture capturing; saving files in USB flash disk or uploading to FTP server; λ Two-level user authority and up to 32 user accounts are configurable: one admin and 31 operators. Operating System Android 6.0 TFT LCD Screen 10.1" TFT LCD touchscreen Resolution: 1280 × 800 Joystick 4-axis joystick Local Decoding Local live view at 1080P/720P/HD1/BCIF/CIF/QCIF resolution, and up to 16-division window display Two-way Audio Input 1-ch, 3.5mm connector (2.0Vp-p, &gt;1kΩ) Audio Output 1-ch, 3.5mm connector (2.0 Vp-p, 600 Ω) Network Interface 10M/100M/1000M Adaptive Ethernet port WiFi Supported USB Interface USB 2.0 × 2 Video Interface HDMI, DVI Power Supply 12V DC /POE</p> <p>In addition to displaying images, the 10.1" capacitive touchscreen supports DVI and HDMI video output.</p> <p>It runs on Android and has the brand new UI interaction design. It also supports all series of front-end and back-end devices of Hikvision, as well as control center devices such as video management platform (VMS). It has open settings of the monitoring point number, and users can arrange the numbers freely as needed. In application, users can call the numbers quickly to display the video on the video wall, or output videos to the touchscreen or external displays. It supports recording, picture capturing and two-way audio, as well as the screen control and scene switch of VMS and decoding device.</p> <p>The 4-axis joystick can be used to the PTZ control to locate the target quickly.</p> <p>The joystick panel is detachable for the convenience of user operation. This keyboard can be widely used in public security and finance and other fields</p>					
5	55 INCHES 4K SMART TV	07				

<p>UA55AU7000UXMM or equivalent</p> <p>Display Screen Size 55", Resolution 3,840 x 2,160 (4K)</p> <p>Video</p> <p>Picture Engine</p> <p>UHD Engine</p> <p>Motion Rate 100</p> <p>PQI (Picture Quality Index) 1300</p> <p>HDR (High Dynamic Range)</p> <p>HDR ,HDR 10+</p> <p>HLG (Hybrid Log Gamma)</p> <p>Contrast</p> <p>Mega Contrast</p> <p>Color</p> <p>PurColor</p> <p>Micro Dimming</p> <p>UHD Dimming</p> <p>Contrast Enhancer</p> <p>Auto Motion Plus</p> <p>Film Mode</p> <p>Natural Mode Support</p> <p>Audio</p> <p>Dolby Digital Plus</p> <p>Sound Output (RMS) 20 W</p> <p>Speaker Type 2CH</p> <p>Multiroom Link</p> <p>Smart Service</p> <p>Samsung SMART TV Smart or equivalent</p> <p>Web Browser</p> <p>SmartThings App Support</p> <p>Convergence</p> <p>Mobile to TV - Mirroring, DLNA</p>					
-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--	--	--	--	--

360 Video Player 360 Camera Support WiFi Direct Differentiation Dongle Compatibility (3G / LTE / WiFi) Analog Clean View Triple Protection Tuner/Broadcasting Digital Broadcasting DVB-T2 Analog Tuner TV Key Support Connectivity HDMI 3 USB 2 Component In (Y/Pb/Pr) 1 Composite In (AV) 1 (Common Use for Component Y) Ethernet (LAN) Digital Audio Out (Optical) 1 RF In (Terrestrial / Cable input) 1/1(Common Use for Terrestrial)/0 HDMI A / Return Ch. Support HDMI Quick Switch Wireless LAN Built-in Anynet+ (HDMI-CEC) Design Design New Edge (Skinny Bezel) Bezel Type VNB Slim Type Slim					
----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--	--	--	--	--



<p>           Front Color            Charcoal Black            Stand Type            SIMPLE LUMINUS            Additional Feature            Processor            Quad-Core            Accessibility            Voice guide(AU English)/ Enlarge/ High contrast/ Learn TV            Remote(AU English)            Digital Clean View            Auto Channel Search            Auto Power Off            Caption (Subtitle)            Connect Share™ (HDD)            ConnectShare™ (USB 2.0)            EPG            Game Mode            Yes (Basic)            OSD Language            Local Languages            USB HID Support            Teletext (TTX)            IPv6 Support            Power Supply            AC100-240V 50/60Hz            Power Consumption (Max) 150 W            Dimension            Package Size (WxHxD)            1396 x 852 x 158 mm            Set Size with Stand (WxHxD)            1238.6 x 792.8 x 261.3 mm         </p>					
----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--	--	--	--	--

	<p>Set Size without Stand (WxHxD) 1238.6 x 714.2 x 59.2 mm</p> <p>Stand (Basic) (WxD) 969.6 x 261.3 mm</p> <p>Weight Package Weight 23.40 kg</p> <p>Set Weight with Stand 17.70 kg</p> <p>Set Weight without Stand 17.3 kg</p> <p>Accessory Remote Controller Model TM1240A Batteries (for Remote Control), Mini Wall Mount Support, Vesa Wall Mount Support, User Manual, E-Manual, Power Cable</p>					
6	<p>8 PORT GIGABIT POE SWITCH WITH 2 SFP DS-3E1510P-SI or equivalent 8 × gigabit PoE ports, and 2 × gigabit fiber optical ports. v IEEE 802.3at/af standard for PoE ports. v Network topology management, alarm push, network health monitor. v 6 KV surge protection for PoE ports. v AF/AT camera can reach up to 300 m in extend mode. v PoE watchdog to auto detect and restart the cameras that do not respond. v Various layer 2 management protocols such as STP/RSTP, VLAN, link aggregation, SNMP, QoS . PoE Standard IEEE 802.3af, IEEE 802.3at PoE Power Pin End-span: 1/2(-), 3/6(+) Mid-span: 4/5(+), 7/8(-) 8-pin power: 1/2(-), 3/6(+), 4/5(+), 7/8(-) PoE Port PoE: Ports 1 to 8 Max. Port Power Port 1 to 8: 30 W PoE Power Budget 110 W Network Parameters Port Number 8 × gigabit PoE port, and 2 × gigabit fiber optical port Port Type RJ45</p>	10				

	<p>port, full duplex, MDI/MDI-X adaptive Standard IEEE 802.3, IEEE 802.3u, IEEE 802.3x, IEEE 802.3ab, and IEEE 802.3z Forwarding Mode Store-and-forward switching Working Mode Standard mode (default) Extend mode MAC Address Table 8 K Switching Capacity 20 Gbps Packet Forwarding Rate 14.88 Mpps Internal Cache 4.1 Mbits Software Function Device Maintenance Remote upgrade, default parameters recovery, logs viewing, basic network parameters configuration, import and export configuration, time sync Port Configuration Port rate configuration, flow control, and ports enabling Long Range Up to 300 m transmission PoE Configuration PoE watchdog: Ports 1 to 8 auto detect and restart the cameras that do not respond. PoE enabling: Support Port Rate-Limiting Rate-limiting for ingress and egress ports Storm Control Storm control of unknown unicast, multicast and broadcast</p>					
7	<p>16 PORT GIGABIT POE SWITCH WITH 2 SFP DS-3E1518P-SI  16 × gigabit PoE ports, and 2 × gigabit fiber optical ports. v IEEE 802.3at/af standard for PoE ports. v Network topology management, alarm push, network health monitor. v 6 KV surge protection for PoE ports. v AF/AT camera can reach up to 300 m in extend mode. v PoE watchdog to auto detect and restart the cameras that do not respond. v Various layer 2 management protocols such as STP/RSTP, VLAN, link aggregation, SNMP, QoS  PoE Standard IEEE 802.3af, IEEE 802.3at PoE Power Pin End-span: 1/2(-), 3/6(+) Mid-span: 4/5(+), 7/8(-) 8-pin power: 1/2(-), 3/6(+), 4/5(+), 7/8(-) PoE Port PoE: Ports 1 to 16 Max. Port Power Port 1 to 16: 30 W PoE Power Budget 225 W  Network Parameters Port Number 16 × gigabit PoE port, and 2 × gigabit fiber optical port Port Type RJ45 port, full duplex, MDI/MDI-X adaptive Standard IEEE 802.3, IEEE 802.3u, IEEE 802.3x, IEEE</p>	10				

	<p>802.3ab, and IEEE 802.3z Forwarding Mode Store-and-forward switching Working Mode Standard mode (default)  Extend mode MAC Address Table 8 K Switching Capacity 36 Gbps  Packet Forwarding Rate 26.784 Mpps Internal Cache 4.1 Mbits  Software Function Device Maintenance Remote upgrade, default parameters recovery, logs viewing, basic network parameters configuration,  import and export configuration, time sync Port Configuration Port rate configuration, flow control, and ports enabling Long Range Up to 300 m transmission PoE Configuration PoE watchdog:  Ports 1 to 16 auto detect and restart the cameras that do not respond. PoE enabling:  Support Port Rate-Limiting Rate-limiting for ingress and egress ports  Storm Control Storm control of unknown unicast, multicast and broadcast  Port Mirroring Support Link Aggregation Static link aggregation supported Port Isolation Ports in isolation group cannot communicate with each other.  QoS WRR and SP scheduling and port priority VLAN 4094 VLANs STP STP and RSTP protocols SNMP SNMPv1 and SNMPv2c supported for obtaining node information of the system and interfaces LLDP LLDP protocol supported for port configuration, global configuration and neighbor discovery</p>					
8	<p>12 core single mode fiber optic cable  Two parallel steel wires are placed at the two sides of the steel tape, The cable is completed with a single polyethylene (PE) sheath. The tube is wrapped with a layer of PSP longitudinally, with excellent crush-resistant performance  Between the PSP and the loose</p>	2600 (meters)				
9	CAT 6 PATCH PANNEL	1				

	Range Digilink Product or component type Patch panel Provided equipment With RJ45 connectors Communication network category 6 Accessory / separate part designation Insulation displacement connector Cable shielding type UTP Number of port 24 Complementary Connector type RJ45 Minimum number of matings 750 cycles [In] rated current 1.5 A Insulation resistance >= 500 mOhm at 500 V DC Contact resistance 20 mOhm Material Panel: steel powder coated Contacts material Phosphor bronze with 50 micro-inches gold over 100 micro-inches nickel Width 482.6 mm Height 44.2 mm Number of rack unit 1U Environment Environmental characteristic Flame retardant Product certifications UL listed UL/ETL verified Standards ANSI/TIA-568-C.2 ISO/IEC 11801 class E EIA/TIA TSB 40					
10	Cat6 cable manager CAT 6 cable manager supported with cable ties	1				
11	CAT6 PATCH CORD 1 METER Cat6 UTP NV patch cords are designed for high-speed applications such as ATM 622 Mbps, Gigabit Ethernet 1000 Mbps and future high-speed applications. ... With Precession Placement Technology (PPT), the Cat6 Plug ensures high-repeatability Cross-Talk performance, with both factory and field termination	24				
12	FIBER PIGTAIL Single mode ,10G supported	160				
13	CONDUIT & HD PIPE Complete conduit &hd pipe installation with all accessories included joints , bends , tee ,screw ,ties	1 job as per design				
14	MS POLE 15 & 10 FEET Respect as design installed with all civil work and galvanized, rust	14				

	proof, 4 inches dia in bottom and 2 inches dia in top					
15	<p>SFP MOUDULES 1GIG FOR NETWORK SWITCHES</p> <p>The 1000BASE-LX/LH SFP, compatible with the IEEE 802.3z 1000BASE-LX standard, operates on standard single-mode fiber-optic link spans of up to 10 km and up to 550 m on any multimode fibers. When used over legacy multimode fiber type, the transmitter should be coupled through a mode conditioning patch cable</p> <p>Single LC/PC connector (1000BASE-BX-D and 1000BASE-BX-U)</p>	42				
16	<p>Computer core i5 with LED 21INCH FOR CONTROL ROOM</p> <p>CPU core i5 ,8GB ram ,1TB harddrive ,11 Generation</p> <p>HD quality display at multiple angles with VESA-mount compatibility and tilt options, as well as VGA and DisplayPort connectivity.</p> <p>Dependable performance: Uncompromising quality testing standards with 3-year warranty and service ensure long-term performance.</p> <p>Eco-conscious design: Save energy with power-efficient features.</p>	05				
17	<p>FIBER PATCH CORD 3 METER</p> <p>single mode fiber optic patch cord are with 9/125 fiber glass and is yellow jacket</p>	42				
18	<p>DATA CABINET 42U RACK FOR CONTROL ROOM</p> <p>Reliable structure, static loading capacity:600-800KG (Optional castors and plinth)</p> <p>Adjustable feet and heavy duty castors are available simultaneously, moving conveniently and fixing reliably.</p> <p>Glass front door and rear metal door or high density vented front and rear doors,meeting the requirements of mechanical protection and ventilation.</p> <p>Optional cable entry on top cover and bottom panel.Front, rear door and side panel can be removed facility, the bottom has the function of</p>	01				

	ventilation and rat-proof. Varies optional accessories, reliable quality. Optional opening hole and varies specification upon customers' special requirements. 42U 3 depth options – 600, 800 and 1000 mm					
19	CCTV CABINET FOR OUT DOOR Cabinet for outdoor required with 2 fans ,weather proof , water proof included installation with civil work	05				
20	CCTV CABINET FOR INDOOR CABINET HAVE GLASS DOOR WITH 2 FANS RUST PROOF 18 GAGE INCLUDING INSTALLATION & ALL RESPECTS	14				
21	FIBER ODF 24PORT FIBER ODF SCHINDER WITH COUPLES AND MOUNTION KIT	04				
22	FIBER ODF 04 PORT FIBER ODF WITH COUPLES AND MOUNTING KIT china	19				
23	UPS 10KVA/10KW 10 kva srt10000 APC Smart-UPS SRT 10000VA 230V Input voltage limits: 100...275 V Input voltage: 230 V, 400 V 3 phases Rated power in W: 10000W Output frequency 50/60 Hz +/- 3 Hz sync to mains Output voltage 220 V, 240V Crest factor 3 : 1 UPS type Double conversion online Wave type Sine wave Output connector type Hard wire 3-wire (H N + E) 1 Bypass type Internal bypass (automatic and manual)	01				

	<p>Curve equation Efficiency  Curve X-axis title Load  Curve Y-axis maximum 100 %  Curve Y-axis title Efficiency  Heat dissipation 1947 Btu/h  Show note OP temperature No  Storage Relative Humidity 0...95 % Non-condensing  Operating altitude 0...10000 ft  BACKUP TIME 30 MIN</p>					
24	<p>UPS 1200VA  Line-interactive UPS  APC Power-Saving Back-UPS Pro 1200, 230V  Output power capacity 720 Watts / 1.2kVA  Max Configurable Power (Watts) 720 Watts / 1.2kVA  Nominal Output Voltage 230V  Load Crest Factor 3 : 1  Topology Line interactive  Waveform type Stepped approximation to a sinewave  Output Connections (5) IEC 60320 C13  (5) IEC 60320 C13  (2) IEC Jumpers  Nominal Input Voltage 230V  Input frequency 50/60 Hz +/- 3 Hz Auto-sensing  Input Connections IEC 60320 C14  Input voltage range for main operations 156 - 300 Adjustable  BACKUP TIME 30 MINUTES</p>	19				
25	FIBER SPLICING	300				
26	<p>CIVIL WORK DIGGING FOR FIBER  4 FEET DEPTH 1 FEET WIDTH WITH BRICKS , SAND &amp; MARKING  TAPE</p>	800 Meters				



27	POWER CABLING 7/36 TWO core power cable 99.9% copper provided, laying, installation with all respect	As per design				
28	CAT 6 & FIBER CABLE LAYING INCLUDED LAYING , PUNCHING , DRESSING,TAGGING ,TESTING WITH ALL RESPECT	As per design				
29	SURVEILLANCE GRADE HARD DRIVE 8TB	16				
30	Installation, commissioning, training	Job				
	<b>Total in <u>Figures/Numbers</u></b>					
	<b>Total WITHOUT TAX in <u>WORDS</u></b>					
	<b>Total TAX in <u>WORDS</u></b>					
	<b>Total WITH TAX in <u>WORDS</u></b>					

Must be filled by the Bidder under authorized signatures and seal / stamp:

Name of Authorized Person: \_\_\_\_\_

Designation : \_\_\_\_\_

CNIC # \_\_\_\_\_

Contact Numbers : (Landline : \_\_\_\_\_ , Mobile : \_\_\_\_\_)

Address:\_\_\_\_\_

THE BIDDERS AGREE THAT ANY INFORMATION SUBMITTED BY THE BIDDERS SHALL BE FINAL AND THAT THE BIDDERS SHALL BE RESPONSIBLE FOR ANY ERRORS AND OMISSIONS ANYWHERE IN THE PROPOSAL AND SHALL HAVE NO RIGHT FOR SUBSEQUENT CORRECTION/JUSTIFICATION.

SIGNATURES \_\_\_\_\_ STAMP / SEAL \_\_\_\_\_

## Annex-C

### COMPLIANCE CERTIFICATE

#### 1. General or special Conditions

- 1.1. Application letter of Intent for participation in the tendering process.
  - 1.2. Firms must have valid experience of providing CCTV SYSTEM FOR SURVEILLANCE, MONITORING AND SECURITY FOR THE NATIONAL ASSEMBLY OF PAKISTAN to at least ten (10) public / private sector organizations.
  - 1.3. Firms must attach valid 3 x months bank statements along with Certificates from its Banker regarding maintenance of the account of the firm.
  - 1.4. Copy of Income Tax / Sales Tax Registration.
  - 1.5. Office details at Islamabad / Rawalpindi, and other cities (if applicable) with Phone Numbers / Addresses.
  - 1.6. Affidavit on Judicial / Stamp Paper of Rs. 100/- or above duly attested by Notary Public that the firm is not black listed by any government / semi government Department as per Specimen at Annex-C.
  - 1.7. has valid Registration of General Sales Tax (GST) & National Tax Number (NTN)
  - 1.8. has submitted bid for complete Lot(s) and relevant bid security against each Lot separately
  - 1.9. Authorization of the principal / manufacturer letter
  - 1.10. Letter of Blacklisted by any Provincial or Federal Government Department, Agency, Organization or autonomous body or Private Sector Organization anywhere in Pakistan. (Submission of undertaking on legal stamp paper is mandatory), failing which will cause rejection of the bid.
  - 1.11. Verifiable documentary proof for all above requirements is a mandatory requirement, noncompliance will lead to disqualification.
  - 1.12. Undertaking and Evidence that the quoted Goods are genuine, brand new, non- refurbished, un-altered in any way, of the most recent / current model, imported through proper channel and not through any grey or illegal channel, and incorporate all recent improvements in design and materials
  - 1.13. Technical Brochures / Literature
  - 1.14. Details of Warranty and After-Sale Service
  - 1.15. List of firm's major international and national clientele
  - 1.16. Power of Attorney if an authorized representative is appointed
  - 1.17. Annual turnover of last five years
  - 1.18. Proposal shall clearly mention Delivery & installation period 8-12 weeks after issue of purchase order.
2. The firms will be bound to make delivery/supply and install the item(s) as per specification at the National Assembly Secretariat mentioned at Annex-A.

3. Firms who supply reconditioned/sub-standard/used item(s) and having poor performance may not submit their bids. Mode of the payment based on credit and taxes will be applicable as per Government Policy amended to time and again. The firm should clearly show whether GST is included or excluded in the offered rates.
4. The firm will be bound to supply, deliver and install the item(s) within specified time.
5. The National Assembly Secretariat reserves the right to accept or reject any or all bids as per PPRA rules.

Terms and conditions must be signed and attached with the Tender document if agreed upon.

Name of Firm: **M/S**.....

Name of Owner.....

Mailing Address with Phone .....

Signature / Seal of the bidder.....

**ANNEX-D**

(Must be Printed on Rs. 100/- or Above Stamp Paper)

**NON-BLACKLISTING DECLARATION**

CERTIFIED THAT M/s \_\_\_\_\_ HAS NOT BEEN BLACK-LISTED BY ANY PUBLIC OR PRIVATE SECTOR ORGANIZATION IN PAKISTAN.

M/s \_\_\_\_\_,

Contact Person: \_\_\_\_\_

Address: \_\_\_\_\_

Tel #: \_\_\_\_\_ Mobile #: \_\_\_\_\_

Fax #: \_\_\_\_\_ Email: \_\_\_\_\_

Signature : \_\_\_\_\_ Dated : \_\_\_\_\_

BIDDER'S SEAL

ATTESTED BY NOTARY PUBLIC

**ANNEX-E**

(Must be Printed on Rs. 100/- or Above Stamp Paper)

**UNDERTAKING / CERTIFICATE**

IF THE PROVIDED CCTV SYSTEM FOR SURVEILLANCE, MONITORING AND SECURITY FOR THE NATIONAL ASSEMBLY OF PAKISTAN DO NOT FULFILL THE REQUIREMENTS LAID DOWN IN THE TENDER DOCUMENT AT ANY STAGE AFTER THE AWARD, THE SUPPLY / WORK ORDER OF THE FIRM WILL BE IMMEDIATELY TERMINATED WITHOUT ASSIGNING ANY REASON AND WILL NOT MAKE ANY REFUND / PAYMENT. FURTHER, THE PERFORMANCE / BID SECURITY GIVEN BY THE FIRM WILL ALSO BE CONFISCATED AND THE FIRM WILL BE DECLARED BLACK LISTED.

M/s \_\_\_\_\_

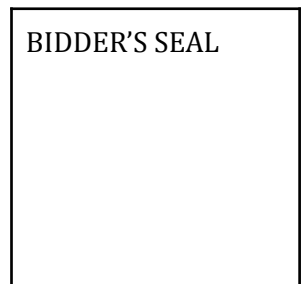
Authorized Person : \_\_\_\_\_

Address : \_\_\_\_\_

Tel #: \_\_\_\_\_ Mobile #: \_\_\_\_\_

Fax #: \_\_\_\_\_ Email : \_\_\_\_\_

Signature : \_\_\_\_\_ Dated : \_\_\_\_\_



ATTESTED BY NOTARY PUBLIC

**ANNEX-F**

**FORM OF CONTRACT FOR PROCUREMENT OF CCTV SYSTEM FOR SURVEILLANCE,  
MONITORING AND SECURITY FOR THE NATIONAL ASSEMBLY OF PAKISTAN**

1. This CONTRACT AGREEMENT is made at Islamabad on ..... the .....day of .....of the year Two Thousand and Twenty One (2021), .....a company registered under the Companies Ordinance 1984, with its Head Office....., hereinafter referred to as the “\_\_\_\_\_” (the first party) which term shall mean and include its Heirs, Agents, Executors, Successors and Assigns

AND

THE NATIONAL ASSEMBLY SECRETARIAT located at, Islamabad through its Representative, hereinafter referred to as the Procuring Agency (the second party).

2. And whereas during the contract period M/s.....will provide repair / maintenance services to the Procuring Agency; by providing technical support to the Procuring Agency, at their own expenditure / risks.
3. NOW IT IS HEREBY AGREED AS FOLLOWS
- a. That repair / maintenance services provided by M/s.....to the Procuring Agency according to this contract agreement, must be rendered at the said premises, as per clauses mutually agreed by both the parties **Annex-A.**
  - b. This agreement shall take effect on and from ..... and shall remain in force for a period of ..... i.e., .....2021 to .....
  - c. M/S..... shall be responsible for responding to the technical queries on the request of the Procuring Agency during the duration of the contract and carry out customization as may be required.
  - d. M/S..... shall be responsible for any delay in provision of the *CCTV SYSTEM FOR SURVEILLANCE, MONITORING AND SECURITY FOR THE NATIONAL ASSEMBLY OF PAKISTAN* and as such be liable for penalties laid down in the contract document and reproduced as follows: “If the successful bidder fails to supply / install the requisite system within the time for completion, the successful bidder's liability to the Procuring Agency for such failure shall be to pay @ 0.5% per week subject to a maximum of 10% of the total bid value for which he fails to complete the works. ”.
  - e. Technical staff of M/s. ....are bound to visit the National Assembly Secretariat once in a month or as and when required (on call basis)

to ensure efficient working of the *CCTV SYSTEM FOR SURVEILLANCE, MONITORING AND SECURITY FOR THE NATIONAL ASSEMBLY OF PAKISTAN* at their own expense.

- f. Both the parties agreed to do each and everything that is necessary to ensure that the terms of this agreement stands implemented.

4. In witness whereof the parties have here as under put their hands and signature under their seal in token of their having accepted the terms and conditions of this contract and executed the same in presence of the following witnesses.

Signed By

(.....)	(.....)
Deputy Secretary (Admin) National Assembly Secretariat, Islamabad	M/s..... CNIC # .....
WITNESSES	
1. (.....) CNIC # ..... National Assembly Secretariat, Islamabad	1. (.....) CNIC#..... M/s.....
2. (.....) CNIC # ..... National Assembly Secretariat, Islamabad	2. (.....) CNIC#..... M/s.....