

Bid Document

Bid Details	
Bid End Date/Time	08-01-2022 14:00:00
Bid Opening Date/Time	08-01-2022 14:30:00
Bid Life Cycle (From Publish Date)	90 (Days)
Bid Offer Validity (From End Date)	60 (Days)
Ministry/State Name	Ministry Of Education
Department Name	Department Of School Education And Literacy
Organisation Name	Kendriya Vidyalaya Sangathan (kvs)
Office Name	Kendriya Vidyalaya Kollam
Total Quantity	1
Item Category	BOQ (Q3) (Onsite Supply Installation Testing and Commissioning of CCTV Camera Surveillance System)
Minimum Average Annual Turnover of the Bidder	1 Lakh (s)
OEM Average Turnover (Last 3 Years)	1 Lakh (s)
Years of Past Experience required	2 Year (s)
MSE Exemption for Years of Experience and Turnover	No
Startup Exemption for Years of Experience and Turnover	No
Document required from seller	Experience Criteria,Past Performance,Bidder Turnover,Certificate (Requested in ATC),OEM Authorization Certificate,OEM Annual Turnover,Additional Doc 1 (Requested in ATC),Compliance of BoQ specification and supporting document *In case any bidder is seeking exemption from Experience / Turnover Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer
Past Performance	50 %
Bid to RA enabled	No
Time allowed for Technical Clarifications during technical evaluation	2 Days
Evaluation Method	Total value wise evaluation

EMD Detail

Required	No
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ePBG Detail

Required	No
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Splitting

Bid splitting not applied.

1. The minimum average annual financial turnover of the bidder during the last three years, ending on 31st March of the previous financial year, should be as indicated above in the bid document. Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or a certificate from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be uploaded with the bid. In case the date of constitution / incorporation of the bidder is less than 3-year-old, the average turnover in respect of the completed financial years after the date of constitution shall be taken into account for this criteria.
2. Experience Criteria: In respect of the filter applied for experience criteria, the Bidder or its OEM {themselves or through reseller(s)} should have regularly, manufactured and supplied same or similar Category Products to any Central / State Govt Organization / PSU / Public Listed Company for number of Financial years as indicated above in the bid document before the bid opening date. Copies of relevant contracts to be submitted along with bid in support of having supplied some quantity during each of the Financial year. In case of bunch bids, the category of primary product having highest value should meet this criterion.
3. OEM Turn Over Criteria: The minimum average annual financial turnover of the OEM of the offered product during the last three years, ending on 31st March of the previous financial year, should be as indicated in the bid document. Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or a certificate from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be uploaded with the bid. In case the date of constitution / incorporation of the OEM is less than 3 year old, the average turnover in respect of the completed financial years after the date of constitution shall be taken into account for this criteria.
4. Estimated Bid Value indicated above is being declared solely for the purpose of guidance on EMD amount and for determining the Eligibility Criteria related to Turn Over, Past Performance and Project / Past Experience etc. This has no relevance or bearing on the price to be quoted by the bidders and is also not going to have any impact on bid participation. Also this is not going to be used as a criteria in determining reasonableness of quoted prices which would be determined by the buyer based on its own assessment of reasonableness and based on competitive prices received in Bid / RA process.
5. Past Performance: The Bidder or its OEM {themselves or through re-seller(s)} should have supplied same or similar Category Products for 50% of bid quantity, in at least one of the last three Financial years before the bid opening date to any Central / State Govt Organization / PSU / Public Listed Company. Copies of relevant contracts (proving supply of cumulative order quantity in any one financial year) to be submitted along with bid in support of quantity supplied in the relevant Financial year. In case of bunch bids, the category related to primary product having highest bid value should meet this criterion.

BOQ (1 pieces)

Brand Type	Unbranded
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Technical Specifications

Specification Document	View File
BOQ Document	View File

Advisory-Please refer attached BOQ document for detailed consignee list and delivery period.

Consignees/Reporting Officer and Quantity

S.No.	Consignee/Reporting Officer	Address	Quantity	Delivery Days
1	Sindhu. S	691003,KENDRIYA VIDYALAYA KAVANAD PO RAMANKULANGARA KOLLAM	1	15

Buyer Added Bid Specific Terms and Conditions

1. Generic

Actual delivery (and Installation & Commissioning (if covered in scope of supply)) is to be done at following address KENDRIYA VIDYALAYA KAVANAD PO RAMANKULANGARA KOLLAM NIL NIL.

2. Buyer Added Bid Specific ATC

Buyer uploaded ATC document [Click here to view the file.](#)

3. Certificates

Bidder's offer is liable to be rejected if they don't upload any of the certificates / documents sought in the Bid document, ATC and Corrigendum if any.

4. Certificates

ISO 9001: The bidder or the OEM of the offered products must have ISO 9001 certification.

Disclaimer

The additional terms and conditions have been incorporated by the Buyer after approval of the Competent Authority in Buyer Organization. Buyer organization is solely responsible for the impact of these clauses on the bidding process, its outcome and consequences thereof including any eccentricity / restriction arising in the bidding process due to these ATCs and due to modification of technical specification and / or terms and conditions governing the bid. Any clause incorporated by the Buyer such as demanding Tender Sample, incorporating any clause against the MSME policy and Preference to make in India Policy, mandating any Brand names or Foreign Certification, changing the default time period for Acceptance of material or payment timeline governed by OM of Department of Expenditure shall be null and void and would not be considered part of bid. Further any reference of conditions published on any external site or reference to external documents / clauses shall also be null and void. If any seller has any objection / grievance against these additional clauses or otherwise on any aspect of this bid, they can raise their representation against the same by using the Representation window provided in the bid details field in Seller dashboard after logging in as a seller within 4 days of bid publication on GeM. Buyer is duty bound to reply to all such representations and would not be allowed to open bids if he fails to reply to such representations.

[This Bid is also governed by the General Terms and Conditions.](#)

In terms of GeM GTC clause 26 regarding Restrictions on procurement from a bidder of a country which shares a land border with India, any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority. While participating in bid, Bidder has to undertake compliance of this and any false declaration and non-compliance of this would be a ground for immediate termination of the contract and further legal action in accordance with the laws.

---Thank You---

Item Number	Item Title	Item Description	Item Quantity	Unit of Measure	Consignee ID	ZipCode	Delivery Period (In number of days)
1	2 MP Dome Camera	<p>Image sensor : Progressive scan CMOS sensor ,Min. Illumination :0.01lux (Color), 0lux (IR on) ,Shutter Time :Auto/Manual, 1/3~1/10000s ,Lens: 3.6 mm@F2.0: horizontal FOV:82 °, vertical FOV:44° ,Day/Night :IR cut filter with auto switch ,Wide Dynamic Range :WDR Max. IR LEDs Length :30M ,Smart IR :Support COMPRESSION STANDARD : Video Compression H.264/H.265 ,H.264 Codec profile ,Base/Main/High profile ,H.265 Codec profile Main profile ,Video Bit Rate 1 Kbps ~ 5Mbps IMAGE Max. resolution 1920 x 1080 Main Stream 50Hz:20fps 2MP (1920*1080) 、 25fps 1.3MP (1280*960) 、 25fps 1MP (1280*720) 60Hz:20fps 2MP (1920*1080) 、 30fps 1.3MP (1280*960) 、 30fps 1MP (1280*720) " Sub Stream 50Hz:25fps D1(704 x 576),25fps CIF (352 x 288) 60Hz:30fps D1(704 x 480), 30fps CIF (352 x 240) " Image Setting Brightness/Contrast/Saturation/Hue/Sharpness,HLC Support ,BLC On/Off, zone configurable ,ROI Support ,Defog Support NETWORK Event Motion Detection, Video Shelter ,Smart Functions Area Intrusion, Line crossing ,Protocols TCP/IP,ICMP,HTTP,HTTPS,DHCP,DNS,DDNS,RTP, RTSP,RTCP,NTP,IGMP,UPnP,SMTP,UPnP-TM,P2P, Bonjour,IPV6 " ,System compatibility Onvif 2.6, Profile S, CGI ,Security User authentication, IP address filtering, Video mask ,Mobile Surveillance Phone, iPad, Android devices INTERFACE :Communication interface RJ45 10M / 100M Ethernet Port GENERAL :Operating Conditions 0</p>	16	Nos	Gem.pgtc skvklm07	691003	10

2	IP Bullet Camera	<p>Illumination 0.01lux (Color), 0lux (IR on) Shutter Time Auto/Manual, 1/3~1/10000s Lens 3.6 mm@F2.0: horizontal FOV:82°, vertical FOV:44° Day/Night IR cut filter with auto switch Wide Dynamic Range WDR Max. IR LEDs Length 30M Smart IR Support COMPRESSION STANDARD Video Compression H.264/H.265 H.264 Codec profile Base/Main/High profile H.265 Codec profile Main profile Video Bit Rate 1 Kbps ~ 5Mbps IMAGE Max. resolution 1920 x 1080 Main Stream "50Hz:20fps 2MP (1920*1080) 、 25fps 1.3MP (1280*960)、 25fps 1MP (1280*720) 60Hz:20fps 2MP (1920*1080) 30fps 1.3MP (1280*960) 、 30fps 1MP (1280*720) "Sub Stream "50Hz:25fps D1(704 x 576), 25fps CIF (352 x 288), 60Hz:30fps D1(704 x 480), 30fps CIF (352 x 240) "Image Setting Brightness/Contrast/Saturation/Hue/ HLC Support BLC On/Off, zone configurable ROI Support Defog Support NETWORK Event Motion Detection, Video Shelter Smart Functions Area Intrusion, Line crossing Protocols "TCP/IP,ICMP,HTTP,HTTPS,,DHCP,DNS,DDNS,RTP,RTS P,RTCP,NTP,IGMP,UPnP,SMTP,UPnP- TM,P2P,Bonjour,IPv6 " System compatibility Onvif 2.6, Profile S, CGI Security User authentication, IP address filtering, Video mask Mobile Surveillance Phone, iPad, Android devices INTERFACE Communication interface</p>	16	Nos	Gem.pgtskvklm07	691003	10
3	16 Channel NVR	<p>IP Video Input 16ch Audio Input 1-ch, RCA Video & Audio Output HDMI 1ch, resolution:4K(3840x2160)/30Hz,1920x1080/60Hz,1440x9 00/60Hz,1280 x1024/60Hz, 1280x720/60Hz, 1024x768/60Hz VGA 1ch, resolution:1920x1080/60Hz,1440x900/60Hz,1280 x1024/60Hz, 1280x720/60Hz,1024x768/60Hz Audio Output 1-ch, RCA Recording Compression H.265+/H.265 /H.264+/H.264 Resolution 8MP/5MP/4MP/3MP/1080P/720P/D1/CIF /QCIF Playback & Backup Playback Mode Smart/ Normal/ Time Division/ Label/ Event/ Picture/ Log Playback Decoding Capability 4CH@1080P(25fps) Backup Mode USB Device/Network Advanced Features Smart Detection Line crossing, Area Intrusion, Fast moving, Unattached Object, Object Missing Smart Playback Line Crossing/Area Intrusion /Motion Detection Cloud Storage GOOGLE DRIVE / DROPBOX Cloud Upgrade Firmware / System Settings Network Incoming Bandwidth 160Mbps Outgoing Bandwidth 256Mbps Ethernet 1 RJ-45 10 /100/1000 Mbps self-adaptive Ethernet interface Network Compatibility HTTP, HTTPS, TCP/IP, IPv4, UPNP, RTSP, UDP, SMTP, NTP, DHCP, IP Filter, DDNS, FTP, P2P, ONVIF 2.6 Smart Phone IOS (iPhone, iPad), Android (Phone, Pad) Hard Disk SATA 2 SATA interface Capacity Up to 8TB</p>	3	Nos	Gem.pgtskvklm07	691003	10

4	Surveillance Hard disk	surveillance Hard Disc Capacity 2 TB for each HDD	3	Nos	Gem.pgtskvklm07	691003	10
5	Cable laying charges	Cabling laying charges after fixing casing & capping, Per mtr to be quoted , actual will be paid	4000	Mtr	Gem.pgtskvklm07	691003	10
6	Camera fixing and installing	Camera fixing and commissioning , charges if any	1	lot	Gem.pgtskvklm07	691003	10



केन्द्रीय विद्यालय, कोल्लम
KENDRIYA VIDYALAYA, KOLLAM

रामनकुलंगारा, कवननाड (पोस्ट) कोल्लम ६९१००३ Ramankulangara, Kavanad P O, Kollam 691003
Telephone: 0474 2799494, 2799696 School Affiliation no. 900030 Station Code :628 Region 27
E-mail: kvkollam@yahoo.co.in <https://kollam.kvs.ac.in> station code: 2098
(भारत सरकार मालय संसाधन विकास मंत्रालय के अधीन स्थापित संस्था)
(Autonomous Body under the Ministry of HRD, Govt. of India)

F.No. 310111/1/2021-22/KVK /

Dated: 23-12-2021

Tender Invitation (Through GeM)

Sub: Tender for “Onsite Supply, Installation, Testing and Commissioning of CCTV Camera Surveillance System ” in the Vidyalaya”- through GeM

Sir/Madam,

1. The Kendriya Vidyalaya Sangathan, a centrally funded Autonomous Body, is a Society registered under Societies Registration Act, 1860. The Sangathan administers the Scheme of Kendriya Vidyalayas set up for imparting education to the children of transferable Central Govt. Employees.

2. The quotations shall be submitted in GeM according to the terms and conditions specified as below. Unless specified otherwise in the quotation, it shall be construed that the terms and conditions stipulated hereunder have been agreed to. The quoted amount in the tender should not include any hidden costs.

3. The rates should be F.O.R and should include excise duty, GST, sales tax, freight charges, any other taxes, flood cess, rates or imposition whatever liable in respect of the supplies. The Kendriya Vidyalaya shall not be liable to pay any tax, freight etc. which has not been expressly stipulated in the quotation in the event of acceptance of the quotation.

4. The firm should enclose supporting documents regarding authorization of dealership service center registration of GST/ST/ITPAN or and any relevant document.

5. The bidder must submit the Manufacture’s Authorization Letter

6. Bidder must have registered office in Kerala & should have supplied items in Kerala, previously.

Proof to be attached.

7. The rate quoted should include all Taxes, Labour, transportation, loading & unloading as required.

8. The rate quoted should not involve any hidden costs.

9. The total price quoted include the supply on the site, Installation, Testing & Commissioning.

10. Annual maintenance contract and term of warranty/guarantee to be specified separately along with details of charges applicable if any

11. The prices should be quoted in Indian Rupees only

12. Each bidder shall submit only one quotation in GeM. Rate can be quoted using Annexures (Annexure B).

13. Payment shall be made within 30 days after the supply goods & their acceptance by the furniture department, after inspection by the committee appointed for inspection of goods supplied.

14. Notwithstanding the above, the Purchaser reserves the right to accept or reject any quotations and to cancel the bidding process and reject all quotations at any time without assigning any reasons thereof.
15. It will be the whole responsibility of the party to supply items on the site as required by the Vidyalaya ,for which no charge/levies will be given by the Vidyalaya.
16. The undersigned does not bind himself to accept the quotation in whole or in part, i.e with respect to all the articles mentioned in the attached statement or in respect of any one or more than on article specified in the attached statement as he may decide.
17. On acceptance of the quotation it will become a contract and the contractor shall be bound by the terms and conditions of the quotation.
18. If the contractor fails to supply the articles within the time stipulated in the letter of acceptance by the undersigned, the undersigned shall be at liberty to purchase the articles from the market or get the rest of the contract completed by any other person or firm and the difference of price, if any, shall be deducted from the earnest money/security deposit and in case any amount in excess of the security deposit is paid by the undersigned the contractor shall be liable to pay this amount.
19. The quantity of articles indicated in the attached statement may be increased or decreased at the discretion of the undersigned without assigning any reason.
20. It will be the sole responsibility of the vendor to supply the item on site i.e. at KV Kollam. If the supplied item does not meet the required quality, it will not be accepted by the Vidyalaya. Once it is not accepted the vendor will take back or remove the items supplied from the premises of the Vidyalaya at the earliest but not later than 10 days. No further communication/intimation in this regard will be entertained and the decision of the Principal will be final in this regard.
21. Active/Passive Components: Qualification Criteria / Guidelines. All Active & Passive components should be from one single vendor to ensure optimum performance. Structured cabling brand should have presence from at least 5 years or more in India. All components should be from one single vendor to ensure optimum performance. The bidder should be OEM certified partner. Bidder shall enclose certificates from the respective manufacturers (OEM) that bidder is authorized to quote for the offered product and that the manufacturers will support the delivery and subsequent warranty. Vendor should provide a detailed technical compliance statement and datasheet for the offered product. Vendor should indicate the part nos. of the deliverable items clearly. Testing, in conformance to measurement procedures and test parameters. Vendor is responsible to resolve any compatibility issue & provide on-site technical support if required during the warranty period.
22. Notwithstanding the above, the Purchaser reserves the right to accept or reject any quotations and to cancel the bidding process and reject all quotations at any time prior to the award of the contract.
23. The Number of Items needed may be increased / decreased as required by the Vidyalaya.

24. CRITERIA FOR TECHNICAL EVALUATION OF CCTV SURVEILLANCE SYSTEM

1. The bidder must be an Indian firm/organization
 2. The bidder must submit the Manufacture's Authorization Letter
 3. The bidder must have a valid GST Registration and attach the proof of the GST tax registration.
 4. The bidder should have relevant experience of minimum of 2 years in "Supply, Installation & Commissioning of similar CCTV Camera Surveillance projects"
 5. The bidder should have minimum of 2 implemented Projects
 6. The Products should have minimum ONE YEAR warranty. Warranty for additional years may be shown separately.
 7. The rate quoted should include all Taxes, Labour, transportation, loading & unloading as required.
 8. The rate quoted should not involve any hidden costs.
 9. The materials supply, its loading, unloading, installation, testing and satisfactory commissioning of the entire project will be the sole responsibility of the bidder.
 10. The comparison of Bids for the award of the supply order will be based on Technical Criteria.
 11. The Evaluation by the Technical experts & Purchase committee will be treated as final.
- The PRINCIPAL, KENDRIYA VIDYALAYA, KOLLAM reserves the right to reject any tender or all the Tenders without assigning any reasons.

12. INSPECTION AND TESTS

The Purchaser or its representatives or ultimate client shall have the right to inspect and test the goods for their conformity to the specifications. The Purchaser may also appoint an agency for this purpose. The technical specifications shall specify what inspection and tests the Purchaser requires and where they are to be conducted, Where the Purchaser decides to conduct such tests on the premises of the Supplier, all reasonable facilities and assistance like testing instruments and other test gadgets including access to the drawings and production data shall be furnished to the Inspector free of costs. In case the tested goods fail to conform to the specifications, the Inspector may reject them and the Supplier shall either replace the rejected goods or make alteration necessary to meet the specifications requirements free of cost to the Purchaser.

Notwithstanding the pre-supply tests and inspections, the material on receipt in the Purchaser's premises shall also be tested and if any material or part thereof is found defective, the same shall be replaced free of cost to the Purchaser. If any material before it is taken over is found defective or fails to fulfill the requirements of the contract, the Inspector shall give the Supplier notice setting forth details of such defects or failures and the Supplier shall make the material good or alter the same to make it comply with the requirements of the contract and in any case within a period not exceeding 1 month of the initial report. These replacements shall be made by the Supplier, free of the all charges, at the site(s).

13. WARRANTY

The Supplier shall give warranty that goods to be supplied shall be new and free from all defects and faults in material, workmanship, and manufacture and shall be of the highest grade and consistent with the established and generally accepted standards for materials of the type ordered and shall perform in full conformity with the specifications and drawings. The Supplier shall be responsible for any defects that may develop under the conditions provided by the supplier and under proper use, arising from faulty materials, design or workmanship such as corrosion of the equipment, inadequate contact protection, deficiencies in circuit design and or otherwise and shall remedy such defects at his own cost when called upon to do so by the Purchaser who shall state in writing in what respect goods are faulty. This warrantee shall survive inspection or payment for, and acceptance of goods, after the goods have been taken over.

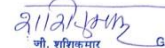
If it becomes necessary for the supplier to replace or renew any defective portion/portions of the equipment under this clause, the provisions of the clause shall apply to the portion/portions of equipment's replaced or renewed. If any defect is not remedied within a reasonable time, the Purchaser may proceed to get the work done at the Supplier's risk and expenses, but without

prejudice to any other rights which the Purchaser may have against the Supplier in respect of such defects.

Replacement under warranty clause shall be made by the Supplier free of all charges at site including freight, insurance and other incidental charges.

Work under the warranty provisions shall be carried out during Normal Working Hours.




जी. ससिकुमार G. SASIKUMAR
प्राचार्य Principal
केन्द्रीय विद्यालय Kendriya Vidyalaya
कावनाड (पोस्ट), कोल्लम Kavanad P.O., Kollam
केरल - 691003 Kerala - 691003

Station: Kollam
Date : 23/12/2021

PRINCIPAL
Kendriya Vidyalaya, Kollam.

ANNEXURE B**KENDRIYA VIDYALAYA KOLLAM****SPECIFICATION OF CCTV CAMERA SURVEILLANCE SYSTEM EQUIPMENTS TO BE SUPPLIED
AND INSTALLED AT KV KOLLAM**

Item No.	Item Title	Item Description	Item Quantity	Unit of Measure	Rate	Amount
1	2 MP Dome Camera	<p>Image Sensor : 1/2.9" Progressive scan CMOS Sensor ,Min. Illumination : 0.01lux (Color), 0lux (IR on) ,Shutter Time : Auto/Manual, 1/3~1/10000s ,Lens: 3.6 mm@F2.0: horizontal FOV:82 °, vertical FOV:44° ,Day/Night : IR cut filter with auto switch ,Wide Dynamic Range : DWDR Max. IR LEDs Length : 30M ,Smart IR : Support COMPRESSION STANDARD : Video Compression H.264/H.265 ,H.264 Codec profile ,Base/Main/High profile ,H.265 Codec profile Main profile ,Video Bit Rate 11 Kbps ~ 5Mbps IMAGE :Max. resolution 1920 x 1080 Main Stream "50HZ:20fps 2MP (1920*1080) 、 25fps 1.3MP (1280*960) 、 25fps 1MP (1280*720) 60HZ:20fps 2MP (1920*1080) 、 30fps 1.3MP (1280*960) 、 30fps 1MP (1280*720) " Sub Stream "50Hz:25fps D1(704 × 576),25fps CIF (352 × 288) 60Hz:30fps D1(704 × 480), 30fps CIF (352 × 240) " Image Setting Brightness/Contrast/Saturation/Hue/Sharpness,HLC Support ,BLC On/Off, zone configurable ,ROI Support ,Defog Support NETWORK :Event Motion Detection, Video Shelter ,Smart Functions Area Intrusion, Line crossing ,Protocols "TCP/IP,ICMP,HTTP,HTTPS,DHCP,DNS,DDNS,RTP, RTSP,RTCP,NTP,IGMP,UPnP,SMTP,UPnP-TM,P2P, ,Bonjour,IPV6 " ,System compatibility Onvif 2.6, Profile S, CGI ,Security User authentication, IP address filtering, Video mask ,Mobile Surveillance iPhone, iPad, Android devices INTERFACE :Communication interface 1 RJ45 10M / 100M Ethernet Port GENERAL :Operating Conditions -30 °C ~ 60 °C (-22 °F ~ 140 °F) , Humidity 95% or less (non-condensing) ,Power Supply DC12V ± 10%) ,POE Supply PoE (802.3af) ,Power Consumption Max. 6.5W ,Weather Proof IP66 , Dimensions Φ 102X90(H) mm Weight (without HDD) 420g,Certification CE SYSTEM</p>	16	Nos		

		MANAGEMENT :System Requirement for Web Interface IE Warranty 3 Years				
2	IP Bullet Camera	<p>Image Sensor 1/2.9" Progressive scan CMOS Sensor Min. Illumination 0.01lux (Color), 0lux (IR on) Shutter Time Auto/Manual, 1/3~1/10000s Lens 3.6 mm@F2.0: horizontal FOV:82 °, vertical FOV:44° Day/Night IR cut filter with auto switch Wide Dynamic Range DWDR Max. IR LEDs Length 30M Smart IR Support COMPRESSION STANDARD Video Compression H.264/H.265 H.264 Codec profile Base/Main/High profile H.265 Codec profile Main profile Video Bit Rate 11 Kbps ~ 5Mbps IMAGE Max. resolution 1920 x 1080 Main Stream "50HZ:20fps 2MP (1920*1080) 、 25fps 1.3MP (1280*960) 、 25fps 1MP (1280*720) 60HZ:20fps 2MP (1920*1080) 30fps 1.3MP (1280*960) 、 30fps 1MP (1280*720) "Sub Stream "50Hz:25fps D1(704 × 576), 25fps CIF (352 × 288), 60Hz:30fps D1(704 × 480), 30fps CIF (352 × 240) "Image Setting Brightness/Contrast/Saturation/Hue/ HLC Support BLC On/Off, zone configurable ROI Support Defog Support NETWORK Event Motion Detection, Video Shelter Smart Functions Area Intrusion, Line crossing Protocols "TCP/IP,ICMP,HTTP,HTTPS,,DHCP,DNS,DDNS,RTP,RTSP,RTCP,NTP,IGMP,UPnP,SMTP,UPnP-TM,P2P,Bonjour,IPV6 " System compatibility Onvif 2.6, Profile S, CGI Security User authentication, IP address filtering, Video mask Mobile Surveillance iPhone, iPad, Android devices INTERFACE Communication interface 1 RJ45 10M / 100M Ethernet Port GENERAL Operating Conditions -30 °C ~ 60 °C (-22 °F ~ 140 °F) Humidity 95% or less (non-condensing) Power Supply DC12V ± 10%)POE Supply PoE (802.3af) Power Consumption Max. 6.5W Weather Proof IP66 Dimensions 187*64*64mm Weight (without HDD) 300g Certification CE SYSTEM MANAGEMENT System Requirement for Web Interface IE Warranty 3 Years</p>	16	Nos		
3	16 Channel NVR	<p>DNR-F5216-M8 IP Video Input 16ch Audio Input 1-ch, RCA Video & Audio Output HDMI 1ch, resolution:4K(3840×2160)/30Hz,1920×1080/60Hz,1440×900/60Hz,1280 ×1024/60Hz, 1280×720/60Hz,</p>	3	Nos		

		<p>1024×768/60Hz VGA 1ch, resolution:1920×1080/60Hz,1440×900/60Hz,1280 ×1024/60Hz, 1280×720/60Hz,1024×768/60Hz Audio Output 1-ch, RCA Recording Compression H.265+/H.265 /H.264+/H.264 Resolution 8MP/5MP/4MP/3MP/1080P/720P/D1/CIF /QCIF Playback & Backup Playback Mode Smart/ Normal/ Time Division/ Label/ Event/ Picture/ Log Playback Decoding Capability 4CH@1080P(25fps) Backup Mode USB Device/Network Advanced Features Smart Detection Line crossing, Area Intrusion, Fast moving, Unattached Object, Object Missing Smart Playback Line Crossing/Area Intrusion /Motion Detection Cloud Storage GOOGLE DRIVE / DROPBOX Cloud Upgrade Firmware / System Settings Network Incoming Bandwidth 160Mbps Outgoing Bandwidth 256Mbps Ethernet 1 RJ-45 10 /100/1000 Mbps self- adaptive Ethernet interface Network Compatibility HTTP, HTTPS, TCP/IP, IPv4, UPNP, RTSP, UDP, SMTP, NTP, DHCP, IP Filter, DDNS, FTP, P2P, ONVIF 2.6 Smart Phone IOS (iPhone, iPad), Android (Phone, Pad) Hard Disk SATA 2 SATA interface Capacity Up to 8TB capacity for each HDD External Interface USB Interface Front panel: 1 × USB 2.0 Rear panel: 1 × USB 2.0 Alarm - IN 8CH Alarm - OUT 1CH General Power Supply DC12V 3.3A Power Consumption ≤10W (without HDD) Working Environment - 10°C~+55°C / 10%~90%RH Dimension (W×D×H) 326*243*52mm Weight ≤2.3Kg Certification CE System Management Mobile Software D-Link Smart CCTV App Desktop Software DSVS (D-Link Smart Video Surveillance) System Requirement for Web Interface IE Warranty 2 Years / 3 Years / 5 Years</p>				
4	Surveillance Hard disk	surveillance Hard Disc Capacity 2 TB for each HDD	3	Nos		
5	Cable laying charges	Cabling laying charges after fixing casing & capping, Per mtr to be quoted , actual will be paid	4000	Mtr		
6	Camera fixing and installing	Camera fixing and commissioning , charges if any	1	lot		