

OFFICE OF THE DISTRICT JUDGE, BALASORE

Civil Court complex, Balasore-756001
Email: cmbalasore@gmail.com
Website: [http://districts.ecourts.gov.in/ balasore](http://districts.ecourts.gov.in/balasore)

TENDER DOCUMENT

Tender Issue No. 556

Dated 05.02.2019

Supply, Installation, Testing, Maintenance and Commissioning of Closed Circuit Television (CCTV) Surveillance System in Civil Court Complex, S.D.J.M. Court Complex and important Offices in the Judgeship of Balasore.

Name and Address of the Bidder:

Cost of Tender Document- Rs. 500/-
*Payable in shape of Demand Draft/Bankers Cheque

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OFFICE OF THE DISTRICT JUDGE, BALAORE

Civil Court complex, Balasore-756001

Email: cmbalasure@gmail.comWebsite: <http://districts.ecourts.gov.in/balasure>

No. 556

Dated 05.02.2019

TENDER INVITATION NOTICE

Sealed Tenders under two bid systems are invited from reputed registered firms/agencies having sound technical experience for supply, installation, testing, maintenance and commissioning of Closed Circuit Television (CCTV), Security Surveillance Cameras along with storage LAN connection and other accessories required for working of the system in the Civil Court premises, S.D.J.M. Court premises and important Offices in the Judgeship of Balasore.

Sl. No.	Activity Description	Schedule
1	Services to be offered	Supply, installation, testing, maintenance and commissioning of Closed Circuit Television (CCTV), Security Surveillance Cameras along with storage LAN connection and other accessories required for working of the system.
2	Sale of Tender Document	<u>05.02.2019 to 13.02.2019 till 05.00 P.M.</u> Tender Document can be collected from the Office of the District & Sessions Court, Balasore or downloaded from our website: http://districts.ecourts.gov.in/balasure
3	Time and last date of depositing Tender/Bid	16.02.2019
4	Time and date of opening of Technical Bid	18.02.2019 at 5 P.M. in chamber of District & Sessions Judge, Balasore.
5	Time and date of opening of Financial Bid	The financial bid will be opened after evaluation of technical bid, which will be announced later. Probably within two days after opening of Technical Bid.
6	Validity of Tender Offer	01 year from the date of opening of tender.
7	Estimate Cost of Tender	Rs. 20,75,000 /- (Rupees Twenty Lakhs seventy five thousand) only.
8	Amount of EMD to be Deposited	Ra. 41,500/- (Rupees Forty one thousand five hundred) only.
9	Cost of Tender Document	Rs. 500/- (Rupees five hundred) only.
10	Completion of Work	Within 15 days from award of contract.

Notes: 1. The District Judge, Balasore reserves the right to accept/reject any/all tenders in part/full without assigning any reason thereof. 2. Any Addendum/Corrigendum, date extension in respect of above tender shall be issued on our website: <http://districts.ecourts.gov.in/balasure> only and no separate notification shall be issued in the press. Bidders are therefore requested to regularly visit our website to keep updated.

Sd /-

District & Sessions Judge, Balasore

SECTION-1. INSTRUCTIONS TO BIDDERS

The tender shall be submitted in accordance with these instructions and any tender not confirming the instructions as under is liable to be rejected. These instructions shall form the part of the tender and contract.

1. The firms fulfilling the following criteria, may deposit their tenders super scribed as **“Tender for Supply, installation, testing, maintenance and commissioning of CCTV Camera”** along with storage LAN connection and other accessories required for working of CCTV Surveillance System and address it to **“The District & Sessions Judge, Balasore, Civil Court complex, Balasore-756001”** so as to reach on or before **16.02.2019 by 05.00 PM** either **through Regd. Post/Speed Post/Courier** to the **District & Sessions Judge, Balasore.**

2. The technical bid and the financial bid should be sealed by the bidder in separate covers with **technical bid marked clearly as “Technical Bid”** and **Financial bid marked as “Financial Bid”**. Both the sealed covers are to be put in a bigger cover which should be sealed and duly super scribed as **“Tender for Supply, installation, testing, maintenance and commissioning of CCTV Camera”**.

3. The intending bidder, in case of **Prime Equipment Manufacturers** shall submit a **self-declaration on their letter-head**, along with the tender documents, confirming that they are regular in manufacturing, supplying, installing, testing and commissioning of the similar equipment **for the last 3 years.**

4. The intending bidder, in case of **Authorized Distributor/ Authorized Dealer** shall attach **manufacturer’s authorization certificate or partner certificate from (Original Equipment Manufacturer) O.E.M. valid at the time of quoting** and also manufacturer’s confirmation of extending the required warranty for that product in the technical bid while submitting the tender.

5. **The detail technical catalogues along with Technical Compliance sheet from O.E.M. of the quoted Products should be submitted.**

6. The bidder must have established service facility and required technical manpower in Odisha. The detail address of the Service Centre shall be furnished by the bidder/OEM. and the **first time installation should be done by OEM Engineer.**

7. The equipment shall be in compliance to the specifications mentioned in Annexure-I of the tender and shall be of the latest technology, best quality and high standards. The tenderer should enclose the product catalogue supporting the specifications mentioned in Annexure-I.

8. Any optional Accessories/Tooling, besides the standard equipment recommended for the better performance of the equipment, if offered, be provided with their full technical details including their use and advantage in a separate sheet with the tender documents. Warranty period, if applicable, should be specified for these.

9. No extra payment shall be paid on account of any discrepancy in nomenclature of items.

10. While submitting the tender, if any of the prescribed conditions are not fulfilled or are incomplete in any form, the tender is liable to be rejected. If any bidder stipulates any condition of his own, such conditional tender is liable to be rejected without any further notice.

11. The District & Sessions Judge, Balasore, reserves the right to reject any tender/bid wholly or partly without assigning any reason.

12. The Committee constituted by the District & Sessions Judge, Balasore shall have the right to verify the particular furnished by bidder independently. **Those technically qualified bids will only be considered for price evaluation (Financial bid). Price should not be quoted with technical bid; otherwise the tender will be rejected without any correspondence.** Decision of the District & Sessions Judge, Balasore on the eligibility for qualifying technical bids shall be final and no representation shall be considered in this regard.

13. Bidder shall take into account all costs including installation, testing and commissioning, cartage etc. for giving delivery of material at site where the same are to be installed before quoting the rates. In this regard no claim for any extra payment for any reason shall be entertained.

14. The supply should be delivered at the premises where the same are to be installed and the successful bidder shall be responsible for any damage during the transit of goods.

13. All the communication with respect to the tender shall be addressed to **“The District & Sessions Judge, Balasore, Civil Court Complex, Balasore-756001”**

15. In the event of any dispute the legal matter shall be subjected to the jurisdiction of Balasore Court only.

16. On approval, the purchase order will be issued to the successful tenderer by the District & Sessions Judge, Balasore.

We confirm with our acceptance to the instructions from Sl. No.1 to 16 above.

Date:

Name, Signature and Seal of Bidder

**SECTION-2. COMMERCIAL AND GENERAL TERMS & CONDITIONS OF
THE TENDER**

1. Eligibility Criteria:

(a) Bidder should have a fully functional service centre with spares stock for attending the breakdown calls. Details of the service centre must be provided. The order of preference of the Service Centre will be emphasized within the local District i.e. Balasore, in case of non-availability of any such centre, the Service Centre available in other town/city of Odisha will be preferred.

(b) **Bidder shall not be under a declaration of ineligibility for corrupt or fraudulent practices or blacklisted by any of the Government agencies.**

2. Scope of Supply:

(a) The tenders shall be submitted as per the technical specifications prescribed in Annexure-I.

(b) Submission of the tender implies that these conditions of tender have been read by the bidders and is aware of the scope of the supply and the quality of the material to be supplied. The final acceptance of the tender rests with the District & Sessions Judge, Balasore who reserves the right to accept or reject any or all tenders without assigning any reason thereof.

3. Submission of Bids:

Only physical bids received **on or before 16.02.2019 by 05.00P.M.** will be considered for opening. **Bids sent through fax or email will not be considered.**

The tender should be submitted in a sealed bigger cover duly super scribed as **“Tender for Supply, installation, testing, commissioning of CCTV Camera”** which must contain two sealed covers as under:

(a) **Technical Bid:** The envelope should subscribed **“Technical bid”** for supply, installation, testing commissioning of CCTV Camera along with storage LAN connection and other accessories required for working of CCTV Surveillance System. It should contain the **Tender Fee, Earnest Money Deposit (EMD) and all details including Annexures with Technical Bid (Annexure – I).**

(b) **Financial Bid:** The second envelope should subscribed **“Financial bid”** for supply, installation, testing, commissioning of CCTV Camera along with storage LAN connection and other accessories required for working of CCTV Surveillance System and it should contain the rates etc. as per Annexure-III. **Nothing except the Annexure-III** should be included in this sealed cover.

4. Validity of Tender:

(a) The tender offered shall be valid for a period of one year from the date of opening of the tender.

(b) Bidders for any reason whatever withdraws the tender after it is accepted or become unable or fails to execute the orders within stipulated delivery period, the District & Sessions Judge, Balasore shall be at liberty to cancel the order forthwith and the EMD of the tender in such a case will be forfeited.

(c) No representation for the enhancement of the prices of the accepted tender or alteration of the terms and conditions will be entertained.

5. Offers ready stock / Subject to prior sale:

(a) Offers from ready stock are preferred. In case the offers are subject to prior orders, the Bidders shall indicate the period within which the ordered quantity will be supplied. **The Bidders shall note that in case Bidder fails to supply within the period of delivery indicated in the said tender, penalty at the rate of 1% of value of the order, per week of delay subject to maximum of 20% of the order value will be levied.**

(b) **The successful Bidder shall, within 3 days from the date of receipt of communication of acceptance of quotes from the District & Sessions Judge, Balasore shall intimate his acceptance of the order.** The successful Bidder shall complete supplies and installation strictly as per the stipulated period.

6. Price Applicability:

(a) The price shall be firm and shall include all applicable taxes and charges. Any variation in the duties, levies etc. during the period of supplies shall be charged to the bidder account. The rates quoted shall be all inclusive, with the delivery, up to destination i.e. to various stations in the Judgeship of Balasore as at Tender Invitation Notice.

(b) The Bidders shall submit the copy of PAN Number, TIN Number, G.S.T. Registration details with any other registration details along with the tender (Annexure-IV).

7. Delivery:

(a) The successful bidder shall complete supplies strictly within the accepted delivery period. Material ordered by the District & Sessions Judge, Balasore shall be delivered to destination securely packed as may be necessary.

(b) The Equipment's shall have to be delivered and installed at the sites where the same are to be installed to the satisfaction of concerned Authority.

(c) Supply, installation, testing, commissioning of CCTV Camera along with storage LAN Connection and other accessories required for working of CCTV Surveillance System shall have to be carried out free of charge to the sites where the same are to be installed. The comprehensive catalogue which includes instructions for Operation, Maintenance, Trouble shooting and all other areas which are necessary for smooth functioning of equipment, shall be provided along with the equipment by the bidder.

8. Standards: The goods supplied under the contract shall conform to the standards mentioned in the Technical Specifications.

9. Patent Rights: The successful bidder shall indemnify, the Purchaser against all third party actions/claims of infringement of patent, trademark or industrial design rights arising from the use of goods or any part thereof.

10. Performance Security:

(a) Within 07 days of award of contract, the successful bidder shall furnish a Performance Security in the form of a Bank Guarantee for an amount equivalent to **10% of the contract *(Rs. /-) (Rupees)** issued by a commercial Bank from its branch in Balasore/Odisha in the prescribed format (Annexure-VII) given in this tender. Performance Security shall remain valid for a period of **sixty** days beyond the date of completion of all contractual obligations of the successful bidder including warranty obligations.

(b) The proceeds of the Performance Security shall be payable to the Purchaser as compensation for any loss resulting from the successful bidder's failure to complete its obligations under the contract.

(c) The Performance Bond will be discharged after completion of all obligations including any warranty obligations under the contract.

(d) **Bid Security shall be refunded to the successful bidder on receipt of performance security.**

11. Inspection and Tests:

(a) The District & Sessions Judge, Balasore or his representatives shall have the right to inspect and test the goods for their conformity to the specifications. The District & Sessions Judge, Balasore 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 Contractor, all reasonable facilities and assistance like testing instruments and other test gadgets including access to the drawings and production date 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 successful bidder shall either replace the rejected goods or make alteration necessary to meet the specifications requirements free of cost to the Purchaser.

(* To be filled in by the bidder.)

12. Warranty:

(a) The successful bidder 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 successful bidder shall be responsible for any defects that may develop under the conditions provided by the bidder 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. This warranty shall survive inspection or payment for and acceptance of goods, after the goods have been taken over.

(b) If it becomes necessary for the successful bidder 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 District & Sessions Judge, Balasore may proceed to get the work done at the successful bidder's risk and expenses, but without prejudice to any other rights which the Purchaser may have against the successful bidder in respect of such defects.

(c) Replacement under warranty clause shall be made by the successful bidder free of all charges at site including freight, insurance and other incidental charges.

(d) The equipments offered shall conform to the specifications as given in tender/order and shall be guaranteed against defective design, defective quality material supplied, manufacturing defects etc., **for minimum period of 24 months** from the date of supply of CCTV Camera.

(e) The Bidders have the right to offer warranty more than the period of warranty offered by manufacturer of the product from the date of supply of CCTV Camera and this aspect would certainly be taken into consideration.

13. Payment:

(a) The payment will be made through NEFT to the bank account as mentioned in the bank mandate. The bidder shall submit the documents which shall clearly indicate that the proper Installation, Commissioning & successful Testing of Equipment are done and said document shall be duly acknowledged by the District & Sessions Judge, Balasore.

14. Tender Fee, Earnest Money Deposit (EMD) and Forfeiture:

Tender Fee:

(a) The cost of tender document is **Rs.500/- (Rupees Five Hundred only) (Non-Refundable)**. The tender document can be obtained by paying the fees through **Demand Draft/Bankers Cheque** drawn in favour of **“Registrar, Civil Courts, Balasore” payable at Balasore.**

(b) **The cost of tender document shall be attached with Technical Bid in case the tender document is downloaded from the website.** The Tender Document is not transferable to any other bidder.

Earnest Money Deposit (EMD):

(a) **The local MSEs registered with respective DICs, Khadi, Village, Cottage & Handicraft Industries, OSIC and NSIC shall pay 25% of the prescribed EMD to the tune of Rs. 10,375/- (Rupees Ten thousand three hundred seventy five) only. In such case, copy of the certificate showing registration with the above mentioned institutions to be enclosed along with the bid.**

(b) In case the unit is not covered as above, the bidder shall have to furnish Earnest Money Deposit (EMD) of **Rs.41,500/- (Rupees forty one thousand five hundred) only** in shape of **Demand Draft/Bankers Cheque** drawn in favour of **“Registrar, Civil Courts, Balasore” payable at Balasore**, failing which their bids will not be considered valid.

(c) The amount will be refunded to **unsuccessful bidder without any interest** after completion of the tender process. The EMD should remain valid for a period of 45 days beyond the final tender validity period.

(d) **EMD of successful bidder will be refunded on receipt of performance security.**

Forfeiture of EMD:

EMD of a tenderer will be forfeited, if the tenderer withdraws or amends its tender or impairs or derogates from the tender in any respect within the period of validity of the tender. **Further, if the successful tenderer fails to furnish the required performance security within the specified period, its EMD will be forfeited.**

15. Service Facility: In order to ensure proper and timely after sales service, contact details with addresses of service centre within Odisha shall be provided along with the bid.

16. Sub-letting: The Bidder cannot assign or transfer and sub-contract its interest/obligations under the contract without prior written permission of the Purchaser.

17. Liquidated Damages:

(a) The date of the delivery of the goods/services stipulated in the acceptance of tender should be deemed to be the essence of the contract and the delivery must be completed not later than the dates specified therein. Extension in delivery period will not be given except in exceptional circumstances. Should, however, deliveries be made after expiry of the contract delivery period and accepted by the consignee, such deliveries will not deprive the Purchaser of the right to recover Liquidated Damages.

(b) In case the successful bidder fails to supply the goods/services against the order, the same shall be procured from other bidders/firms/agencies at the cost and risk of the successful bidder and the excess money will be recovered from any dues of the party.

(c) For late deliveries, as liquidated damages, a sum equal to 2% of the price of any goods/services not delivered or total order value in case where part delivery is of no use to a Purchaser, for a week or part of a week subject to maximum limit of 10% of the total order will be recovered from the Contractor. The Purchaser also reserves the right to cancel the order in such cases and forfeit the EMD/Performance Bank Guarantee and may also debar the Contractor from future purchases.

(d) Liquidated Damages can be recovered from any dues of the successful bidder.

18. Applicable Laws:

This contract shall be interpreted, construed and governed by the laws of the Republic of India and the parties hereby submit to the exclusive jurisdiction of the Court at Balasore and to all Courts at Balasore having jurisdiction in appeal there from. Any dispute in relation to the contract shall be submitted to the appropriate Court of the Republic of India for determination. The parties to the contract shall continue to fulfil their respective obligations under the contract during the currency of the contract pending the final decision of the Court.

19. Packing:

(a) The contractor shall provide packing of the goods, as required to prevent their damages or deterioration during the transit to their final destination as indicated in the contract. The packing shall be sufficient to withstand, without limitation, rough handling during transit.

(b) The equipment shall be securely boxed, crated and protected from mechanical damage, moisture etc. suitable for both storage and transit according to the nature of the material and mode of transport.

20. Replacement of Defective Equipment:

(a) If any equipment or any part thereof, is found defective or fails to meet the requirements of the contract before it is accepted, the Purchaser shall give the successful bidder a notice setting forth details of such defects or failures and the successful bidder shall forthwith arrange to set right the defective equipment or replace the same by the good one to make it comply with the requirements of the contract. This in any case shall be completed within a period not exceeding one month from the date of the initial report pointing out the defects. The replacement or rectification shall be made at site by the successful bidder free of cost. If the bidder fails to do the needful within this stipulated time frame, the purchaser reserves the right to reject the equipment in full or in part and get it replaced at the cost of the successful bidder. The cost of any such replacement made by the Purchaser shall be deducted from the amount payable to the successful bidder against this purchase order.

(b) If any equipment or part thereof is lost or rendered defective during transit, pending settlement of the insurance claim, fresh order shall be placed on the successful bidder for such loss or defective equipment and the successful bidder shall arrange to supply the same within three months of such order at the same prices and on the same general terms and conditions as mentioned in this purchase order.

21. Force Majeure:

(a) If any time, during the continuance of this contract, the performance in whole or in part by either party under obligation as per this contract is prevented or delayed by reasons of war or hostility, act of the public enemy, civil commotion, sabotage, fire, flood, explosion, epidemic, quarantine restrictions, strike, lockout or acts of Nature, hereinafter referred to “eventuality”, provided notice of happening of any such eventuality is given by either party to the other within **21 days** of the date of occurrence thereof, neither party shall be reason of such and “eventuality” be entitled to terminate this contract nor shall either party have any claim or damages against the other in respect of such non-performance or delay in performance and deliveries under the contract. The contract shall be resumed as soon as practicable after such “eventuality” has come to an end or ceased to exist. In case of any dispute, the decision of the District & Sessions Judge, Balasore, shall be final and conclusive, provided further that if the performance in whole or part of any obligation under this contract is prevented or delayed by reason of any such eventuality for a period exceeding 60 days, either party may at its option, terminate the contract. Provided also that if the contract is terminated under this clause the Purchaser shall be at liberty to take over from the successful bidder at a price to be fixed by the purchaser, which shall be final, all unused, undamaged and acceptable materials, bought out components and other stores in the course of manufacture which may be in the possession of the successful bidder at the time of such termination, or such portion thereof as the Purchaser may deem fit except such material, as the successful bidder may, with the concurrence of the Purchaser, elect to retain.

26. Termination for Default:

(a) The Purchaser, may, without prejudice to any other remedy for breach of contract, by written notice of default, sent to the successful bidder, terminate this contract in whole or in part.

- If the successful bidder fails to deliver any or all the goods within the time period (s) specified in the contract or any extension thereof granted by the Purchaser.
- If the successful bidder fails to perform any other obligation(s) under the contract.
- If the successful bidder, in the judgement of the Purchaser has engaged in corrupt or fraudulent practices in competing for or in executing the contract.
- If the successful bidder, in either of the above circumstances, does not remedy his failure within a period of 10 days (or such longer period as the Purchaser may authorize in writing) after receipt of the default notice from the Purchaser.
- On a notice period of 07 days.

For the purpose of this Clause:

(1) “Corrupt practice” means the offering, giving, receiving or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution.

(2) “Fraudulent practice” means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of Purchaser and includes collusive practice among Bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the Purchaser of the benefits of free and open competition”.

(b) In the event the Purchaser terminates the contract in whole or in part pursuant to above paragraph the Purchaser may procure upon such terms and in such manner as it deems appropriate, goods similar to those undelivered and the successful bidder shall be liable to the Purchaser for any excess cost for such similar goods. However, the successful bidder shall continue the performance of the contract to the extent not terminated.

27. Claims:

(a) If the material supplied are found to be of size and shape different than those in the accepted offer and are of specifications lower than those stipulated in the accepted offer, the District & Sessions Judge, Balasore shall have the right to totally reject the goods and/or prefer a claim for compensation for the part of goods, which are rejected.

(b) The successful bidder shall reimburse to the District & Sessions Judge, Balasore, the actual expenditure incurred, on such goods, within 15 (fifteen) days of its demand.

(c) The successful bidder shall be responsible for arranging the rejected goods to be removed at his/her cost from site premises. The contractor shall also compensate for losses, if any, sustained by the District & Sessions Judge, Balasore due to defective packing and/or wrong marking of the goods.

28. Termination for Insolvency:

(a) The Purchaser may at any time terminate the Contract by giving written notice to the Contractor, without compensation to the contractor if the contractor becomes bankrupt or otherwise insolvent as declared by the competent court provided that such termination will not prejudice or effect any right of action or remedy which has accrued or will accrue thereafter to the purchaser.

29. Add On/Repeat Order:

(a) The District & Sessions Judge, Balasore reserves the right to place Add on/Repeat order for additional quantity to 100% of the original quantity at the same rate and terms & conditions of the purchase order within six months from the date of issue of purchase order.

We confirm with our acceptance to the Commercial & General Terms & Conditions Sl. No.1 to 29 as given above.

30. Additional conditions:

(a) The District & Sessions Judge, Balasore reserves the right to accept the tender either in its entirety or in piece meal as the case may be and no representation in that regard shall be entertained.

(b) The District & Sessions Judge, Balasore reserves the right to direct the bidder to carry out the work in any one station/court complex at a time and to carry out the others thereafter if the work carried out in the former station/court complex is satisfactory.

Date:

Name, Signature and Seal of Bidder

District & Sessions Court, Balasore / Tender No. 02 Dated 05.02.2019

14

Annexure – I**TECHNICAL BID**

Technical Specifications for supply, installation, testing and commissioning of CCTV Surveillance System consisting of specified cameras with NVR/DVR, Digital Display Unit, Storage, LAN connection and other accessories required for surveillance of identified areas of different court complexes of Balasore Judgeship.

31. Technical Specifications for Supply, Installation & Commissioning of CCTV Surveillance System in the District Court Complex at Balasore:

(1) 2MP WDR Vari-focal Network Dome Camera			YES/NO	Unit	Qty.
S. No.	Features	Description		Nos.	67
1.	Make	HIKVISION			
2.	Model				
3.	Camera Type	Vari-focal Dome			
4.	Standard	ONVIF (PROFILE S, PROFILE G), ISAPI			
5.	Certification	UL, CE ,FCC			
6.	Image Sensor	1/2.8" Progressive Scan CMOS			
7.	Min. Illumination	Color: 0.01 Lux or better			
8.	Shutter Speed	1/3s to 1/100,000s			
9.	Day & Night	IR Cut Filter			
10.	WDR	yes			
11.	Angle Adjustment	Pan: 0° to 355°, tilt: 0° to 75°, rotation: 0° to 355°			
12.	Focal length	2.8 to 12 mm			
13.	Aperture	F1.6			
14.	FOV	Horizontal field of view: 105° to 34.5° Vertical field of view: 55° to 19° Diagonal field of view: 125° to 40°			
15.	Lens Mount	Ø14			
16.	IR Range	Upto 30 m			
17.	Video Compression	H.265+,H.265.			
18.	Video Bit Rate	32 Kbps to 16 Mbps			
	Audio Compression	G.711/G.722.1/G.726/MP2L2/PCM			
	Behavior Analysis	Line crossing detection, intrusion detection			
	Face Detection	Yes			
19.	Region of Interest	1 fixed region for main stream and sub-stream			
20.	Max. Resolution	1920*1080			
21.	Back Light Compensation	Yes			

22.	Dynamic Noise Reduction	3D		
23.	Image Setting	Rotate mode, saturation, brightness, contrast, sharpness adjustable by client software or web browser		
24.	Day/Night Switch	Auto, scheduled		
25.	Network Storage	Support Micro SD/SDHC/SDXC card (128G), local storage and NAS (NFS,SMB/CIFS)		
26.	Automatic Network Replenishment	After recovery of the network, the NVR automatically retrieves the video data stored on the camera.		
27.	Alarm Trigger	Motion detection, video tampering, network disconnected, IP address conflict, illegal login, HDD full, HDD error		
28.	Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, NTP, UPnP™, SMTP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour		
29.	General Function	One-key reset, anti-flicker, heartbeat, mirror, password protection, privacy mask, watermark		
30.	User/Host	Up to 32 users 3 levels: Administrator, Operator and User		
	Alarm	1 input, 1output		
31.	Communication Interface	1 RJ45 10M/100M self-adaptive Ethernet port		
32.	Reset Button	Yes		
	Environment Noise Filtering	Yes		
33.	Operating Conditions	(-)30 °C to +60 °C (-)22 °F to +140 °F), Humidity 95% or less (non-condensing)		
	Material	Metalic,IK10		
34.	Power Supply	12 VDC ± 25%, PoE (802.3at, class 4)		
35.	Protection Level	IP67, TVS 2000V lightning protection, surge protection and voltage transient protection		

(2) 2MP WDR Vari-focal Network Bullet Camera			YES/NO	Unit	Qty.
S. No.	Features	Description		Nos.	2
1.	Make	HIKVISION			
2.	Model				
3.	Camera Type	Varifocal Bullet			
4.	Standard	ONVIF (PROFILE S, PROFILE G), ISAPI			
5.	Certification	UL, CE ,FCC			
6.	Image Sensor	1/2.8" Progressive Scan CMOS			
7.	Min. Illumination	Color: 0.01 Lux or better			
8.	Shutter Speed	1/3s to 1/100,000s			

9.	Day & Night	IR Cut Filter	
10.	WDR	YES	
11.	Angle Adjustment	Pan: 0° to 355°, tilt: 0° to 90°, rotation: 0° to 355°	
12.	Focal length	2.8 to 12 mm	
15.	Lens Mount	Ø14	
16.	IR Range	Upto 30 m	
17.	Video Compression	H.265+,H.265	
18.	Video Bit Rate	32 Kbps to 16 Mbps	
	Audio Compression	G.711/G.722.1/G.726/MP2L2/PCM	
	Behavior Analysis	Line crossing detection, intrusion detection	
	Face Detection	Yes	
19.	Region of Interest	1 fixed region for main stream and sub-stream	
20.	Max. Resolution	1920*1080P	
21.	Back Light Compensation	Yes	
22.	Dynamic Noise Reduction	3D	
23.	Image Setting	Rotate mode, saturation, brightness, contrast, sharpness adjustable by client software or web browser	
24.	Day/Night Switch	Auto, scheduled	
25.	Network Storage	Support Micro SD/SDHC/SDXC card (128G), local storage and NAS (NFS,SMB/CIFS)	
26.	Automatic Network Replenishment	After recovery of the network, the NVR automatically retrieves the video data stored on the camera.	
27.	Alarm Trigger	Motion detection, video tampering, network disconnected, IP address conflict, illegal login, HDD full, HDD error	
28.	Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, NTP, UPnP™, SMTP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour	
29.	General Function	One-key reset, anti-flicker, heartbeat, mirror, password protection, privacy mask, watermark	
30.	User/Host	Up to 32 users 3 levels: Administrator, Operator and User	
	Alarm	1 input, 1output	
31.	Communication Interface	1 RJ45 10M/100M self-adaptive Ethernet port	
32.	Reset Button	Yes	
33.	Environment Noise Filtering	Yes	
34.	Operating Conditions	(-)30 °C to +60 °C (-)22 °F to +140 °F), Humidity 95% or less (non-condensing)	

35.	Power Supply	12 VDC \pm 25%, PoE (802.3at, class 4) TVS 2000V lightning protection, surge protection and voltage transient protection			
36.	Material	metallic			
37.	Protection Level	IP67,			
(2) 128CH NVR			YES /NO	No.	1
S. No.	Features	Description			
1.	Make	HIKVISION			
2.	Model	HIKVISION 128 CH NVR			
3.	Power Supply	100 ~ 240 V AC, 6.3 A, 50 ~ 60 Hz			
4.	Consumption	\leq 30 W (without HDD)			
5.	Operating System	DUAL OS Linux Based			
VIDEO/AUDIO INPUT					
6.	Video Input	Up to 128-ch IP video input, and 320Mbps incoming bandwidth			
7.	Audio input	1-ch voice talk input, RCA (2.0 Vp-p, 1kohm)			
VIDEO/AUDIO OUTPUT					
8.	Recording resolution	12MP/ 8MP/ 6MP/ 5MP / 4MP/ 3MP /1080P /UXGA /720P /VGA /4CIF /DCIF /2CIF /CIF /QCIF			
9.	4k HDMI output	2 HDMI, resolution: HDMI1:3840 \times 2160@60Hz, 3840 \times 2160@30Hz, 2560 \times 1440@60Hz, 1920 \times 1080P@60Hz, 1600 \times 1200@60 Hz, 1280 \times 1024@60 Hz, 1280 \times 720@60 Hz, 1024 \times 768@60Hz HDMI2: 1920 \times 1080P@60Hz, 1280 \times 1024@60 Hz, 1280 \times 720@60 Hz, 1024 \times 768@60Hz			
10.	VGA output	2 VGA, resolution: VGA1: 2560 \times 1440@60Hz, 1920 \times 1080P@60Hz, 1600 \times 1200@60 Hz, 1280 \times 1024@60 Hz, 1280 \times 720@60 Hz, 1024 \times 768@60Hz VGA2: 1920 \times 1080P@60Hz, 1280 \times 1024@60 Hz, 1280 \times 720@60 Hz, 1024 \times 768@60Hz			
11.	Playback Resolution	12MP/ 8MP/ 6MP/ 5MP / 4MP/ 3MP /1080P /UXGA /720P /VGA /4CIF /DCIF /2CIF /CIF /QCIF			
12.	compression	h.265+, h.265			
13.	Audio output	2-ch, RCA (2.0 Vp-p, 1kohm)			
14.	Dual stream	Support			
15.	Synchronous playback	16-ch 1080P			
16.	STORAGE				
17.	SATA	16 SATA interfaces			
18.	eSATA	1 eSATA interface			

19.	Capacity	Up to 10TB capacity for each HDD			
	RAID TECHNOLOGY	HDD hot swap with RAID0, RAID1, RAID5, RAID6 and RAID10 storage configurable			
	EXTERNAL INTERFACE				
20.	Network Interface	2x 10M, 100M, 1000M self-adaptive Ethernet interface, dual IP, network redundancy			
21.	Network bandwidth	Up to 320Mbps input, 256Mbps output, up to 128 output network streams for remote connection			
22.	Serial Interfaces	1 RS-232, 1 RS-485 for keyboard, and 1 extra RS-485 reserved			
23.	USB interface	2 x USB 2.0, 1 x USB 3.0			
24.	Alarm Input	16			
25.	Alarm Output	4			
26.	Chassis	19" rack-mountable 2U chassis			
27.	ENVIRONMENTAL				
28.	Working Temperature	(-)10 °C ~ +55 °C (14 °F ~ 131 °F)			
29.	Working Humidity	10% - 90%			
S. No.	Item description	Model	YES /NO	Unit	Qty.
3.	24 port Managed PoE Switch	D-Link		Nos.	4
4.	8 port Managed PoE Switch	D-Link		No	1
5.	6 HDD	Seagate/WDR		Nos.	10
6.	9U Wallmount Rack with all assoseries	D-Link		No.	1
7.	6U Wallmount Rack with all assoseries	D-Link		Nos.	3
8.	Patch cord 1 mtr. Length	D-Link		Nos.	72
9.	Rj-45 Connector	D-Link		No.	1
10.	LED 4K Professional Display(65")	LG		No.	1
11.	Desktop PC, Core i5 4 GB RAM, 1TB HD with original window	HP		No.	1
12.	2 KVA Online UPS for 1 hr. power back up	Emerson/Libert		No.	1
13.	Power supply board	Branded		Nos.	4
14.	CAT 6 UTP cable	D-Link/Tyco		Nos.	10

32. Technical Specifications for Supply, Installation & Commissioning of CCTV Surveillance System in the Court Complex at S.D.J.M., Balasore:

(1) 2MP WDR Vari-focal Network Dome Camera			YES/NO	Unit	Qty.
S. No.	Features	Description		Nos.	11
1.	Make	HIKVISION			
2.	Model				
3.	Camera Type	Varifocal Dome			
4.	Standard	ONVIF (PROFILE S, PROFILE G), ISAPI			
5.	Certification	UL, CE ,FCC			
6.	Image Sensor	1/2.8" Progressive Scan CMOS			
7.	Min. Illumination	Color: 0.01 Lux or better			
8.	Shutter Speed	1/3s to 1/100,000s			
9.	Day & Night	IR Cut Filter			
10.	WDR	yes			
11.	Angle Adjustment	Pan: 0° to 355°, tilt: 0° to 75°, rotation: 0° to 355°			
12.	Focal length	2.8 to 12 mm			
13.	Aperture	F1.6			
14.	FOV	Horizontal field of view: 105° to 34.5° Vertical field of view: 55° to 19° Diagonal field of view: 125° to 40°			
15.	Lens Mount	Ø14			
16.	IR Range	Upto 30 m			
17.	Video Compression	H.265+,H.265.			
18.	Video Bit Rate	32 Kbps to 16 Mbps			
	Audio Compression	G.711/G.722.1/G.726/MP2L2/PCM			
	Behavior Analysis	Line crossing detection, intrusion detection			
	Face Detection	Yes			
19.	Region of Interest	1 fixed region for main stream and sub-stream			
20.	Max. Resolution	1920*1080			
21.	Back Light Compensation	Yes			
22.	Dynamic Noise Reduction	3D			
23.	Image Setting	Rotate mode, saturation, brightness, contrast, sharpnessadjustable by client software or web browser			
24.	Day/Night Switch	Auto, scheduled			
25.	Network Storage	Support Micro SD/SDHC/SDXC card (128G), local storage and NAS (NFS,SMB/CIFS)			

26.	Automatic Network Replenishment	After recovery of the network, the NVR automatically retrieves the video data stored on the camera.			
27.	Alarm Trigger	Motion detection, video tampering, network disconnected, IP address conflict, illegal login, HDD full, HDD error			
28.	Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, NTP, UPnP™, SMTP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour			
29.	General Function	One-key reset, anti-flicker, heartbeat, mirror, password protection, privacy mask, watermark			
30.	User/Host	Up to 32 users 3 levels: Administrator, Operator and User			
	Alarm	1 input, 1output			
31.	Communication Interface	1 RJ45 10M/100M self-adaptive Ethernet port			
32.	Reset Button	Yes			
	Environment Noise Filtering	Yes			
33.	Operating Conditions	(-)30 °C to +60 °C (-)22 °F to +140 °F), Humidity 95% or less (non-condensing)			
	Material	Metalic,IK10			
34.	Power Supply	12 VDC ± 25%, PoE (802.3at, class 4)			
35.	Protection Level	IP67, TVS 2000V lightning protection, surge protection and voltage transient protection			
(2) 32CH NVR			YES /NO	Unit	Qty.
S. No.	Features	Description		No.	1
1.	Make	Hikvision			
2.	Model				
3.	Power Supply	100 ~ 240 V AC, 6.3 A, 50 ~ 60 Hz			
4.	Consumption	≤ 30 W (without HDD)			
5.	Operating System	DUAL OS Linux Based			
VIDEO/AUDIO INPUT					
6.	Video Input	Up to 32-ch IP video input, and 320Mbps incoming bandwidth			
7.	Audio input	1-ch voice talk input, RCA (2.0 Vp-p, 1kohm)			
VIDEO/AUDIO OUTPUT					
8.	Recording resolution	12MP/ 8MP/ 6MP/ 5MP / 4MP/ 3MP /1080P /UXGA /720P /VGA /4CIF /DCIF /2CIF /CIF /QCIF			

9.	4k HDMI output	2 HDMI, resolution: HDMI1:3840×2160@60Hz, 3840×2160@30Hz, 2560×1440@60Hz, 1920×1080P@60Hz, 1600×1200@60 Hz, 1280×1024@60 Hz, 1280× 720@60 Hz, 1024×768@60Hz HDMI2: 1920×1080P@60Hz, 1280×1024@60 Hz, 1280× 720@60 Hz, 1024×768@60Hz		
10.	VGA output	2 VGA, resolution: VGA1: 2560×1440@60Hz, 1920×1080P@60Hz, 1600×1200@60 Hz, 1280×1024@60 Hz, 1280× 720@60 Hz, 1024×768@60Hz VGA2: 1920×1080P@60Hz, 1280×1024@60 Hz, 1280× 720@60 Hz, 1024×768@60Hz		
11.	Playback Resolution	12MP/ 8MP/ 6MP/ 5MP / 4MP/ 3MP /1080P /UXGA /720P /VGA /4CIF /DCIF /2CIF /CIF /QCIF		
	COMPRESSION	H.265+ ,H.265		
12.	Audio output	2-ch, RCA (2.0 Vp-p, 1kohm)		
13.	Dual stream	Support		
14.	Synchronous playback	16-ch 1080P		
	STORAGE			
15.	SATA	8 SATA interfaces		
16.	eSATA	1 eSATA interface		
17.	Capacity	Up to 10TB capacity for each HDD		
	Raid technology	HDD hot swap with RAID0, RAID1, RAID5, RAID6 and RAID10 storage configurable		
	EXTERNAL INTERFACE			
18.	Network Interface	2x 10M, 100M, 1000M self-adaptive Ethernet interface, dual IP, network redundancy		
19.	Network bandwidth	Up to 320Mbps input, 256Mbps output, up to 128 output network streams for remote connection		
20.	Serial Interfaces	1 RS-232, 1 RS-485 for keyboard, and 1 extra RS-485 reserved		
21.	USB interface	2 x USB 2.0, 1 x USB 3.0		
22.	Alarm Input	16		
23.	Alarm Output	4		
	PHYSICAL SPECIFICATIONS			
26.	Chassis	19" rack-mountable 2U chassis		
	ENVIRONMENTAL			
27.	Working Temperature	(-)10 °C ~ +55 °C (14 °F ~ 131 °F)		
28.	Working Humidity	10% ~ 90%		

S. No.	Item description	Model	YES /NO	Unit	Qty.
3.	24 port Managed PoE Switch	D-Link		Nos.	4
4.	6 HDD	Seagate/WDR		Nos.	2
5.	9U Wallmount Rack with all assoseries	D-Link		No.	1
6.	Patch cord 1 mtr. Length	D-Link		Nos.	16
7.	Rj-45 Connector	D-Link		No.	1
8.	LED 4K Professional Display(55")	LG		No.	1
9.	Desktop PC, Core i5 4 GB RAM, 1TB HD with original window	HP		No.	1
10.	2 KVA Online UPS for 1 hr. power back up	Emerson/Libert		No.	1
11.	Power supply board	Branded		Nos.	2
12.	CAT 6 UTP cable	D-Link/Tyco		Nos.	2

33. Technical Specifications for Supply, Installation & Commissioning of CCTV Surveillance System in the Court Complex at Soro, Balasore:

(1) 2MP WDR Vari-focal Network Dome Camera			YES/NO	Unit	Qty.
S. No.	Features	Description		Nos.	23
1.	Make	HIKVISION			
2.	Model				
3.	Camera Type	Varifocal Dome			
4.	Standard	ONVIF (PROFILE S, PROFILE G), ISAPI			
5.	Certification	UL, CE ,FCC			
6.	Image Sensor	1/2.8" Progressive Scan CMOS			
7.	Min. Illumination	Color: 0.01 Lux or better			
8.	Shutter Speed	1/3s to 1/100,000s			
9.	Day & Night	IR Cut Filter			
10.	WDR	yes			
11.	Angle Adjustment	Pan: 0° to 355°, tilt: 0° to 75°, rotation: 0° to 355°			
12.	Focal length	2.8 to 12 mm			
13.	Aperture	F1.6			

14.	FOV	Horizontal field of view: 105° to 34.5° Vertical field of view: 55° to 19° Diagonal field of view: 125° to 40°	
15.	Lens Mount	Φ14	
16.	IR Range	Upto 30 m	
17.	Video Compression	H.265+,H.265.	
18.	Video Bit Rate	32 Kbps to 16 Mbps	
	Audio Compression	G.711/G.722.1/G.726/MP2L2/PCM	
	Behavior Analysis	Line crossing detection, intrusion detection	
	Face Detection	Yes	
19.	Region of Interest	1 fixed region for main stream and sub-stream	
20.	Max. Resolution	1920*1080	
21.	Back Light Compensation	Yes	
22.	Dynamic Noise Reduction	3D	
23.	Image Setting	Rotate mode, saturation, brightness, contrast, sharpness adjustable by client software or web browser	
24.	Day/Night Switch	Auto, scheduled	
25.	Network Storage	Support Micro SD/SDHC/SDXC card (128G), local storage and NAS (NFS,SMB/CIFS)	
26.	Automatic Network Replenishment	After recovery of the network, the NVR automatically retrieves the video data stored on the camera.	
27.	Alarm Trigger	Motion detection, video tampering, network disconnected, IP address conflict, illegal login, HDD full, HDD error	
28.	Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, NTP, UPnP™, SMTP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour	
29.	General Function	One-key reset, anti-flicker, heartbeat, mirror, password protection, privacy mask, watermark	
30.	User/Host	Up to 32 users 3 levels: Administrator, Operator and User	
	Alarm	1 input, 1 output	
31.	Communication Interface	1 RJ45 10M/100M self-adaptive Ethernet port	
32.	Reset Button	Yes	
	Environment Noise Filtering	Yes	
33.	Operating Conditions	(-)30 °C to +60 °C (-)22 °F to +140 °F), Humidity 95% or less (non-condensing)	
	Material	Metalic,IK10	
34.	Power Supply	12 VDC ± 25%, PoE (802.3at, class 4)	
35.	Protection Level	IP67, TVS 2000V lightning protection, surge protection and voltage transient protection	

(2) 2MP WDR Vari-focal Network Bullet Camera			YES/NO	Unit	Qty.
S. No.	Features	Description		Nos.	12
1.	Make	HIKVISION			
2.	Model				
3.	Camera Type	Varifocal Bullet			
4.	Standard	ONVIF (PROFILE S, PROFILE G), ISAPI			
5.	Certification	UL, CE ,FCC			
6.	Image Sensor	1/2.8" Progressive Scan CMOS			
7.	Min. Illumination	Color: 0.01 Lux or better			
8.	Shutter Speed	1/3s to 1/100,000s			
9.	Day & Night	IR Cut Filter			
10.	WDR	YES			
11.	Angle Adjustment	Pan: 0° to 355°, tilt: 0° to 90°, rotation: 0° to 355°			
12.	Focal length	2.8 to 12 mm			
15.	Lens Mount	Φ14			
16.	IR Range	Upto 30 m			
17.	Video Compression	H.265+,H.265			
18.	Video Bit Rate	32 Kbps to 16 Mbps			
	Audio Compression	G.711/G.722.1/G.726/MP2L2/PCM			
	Behavior Analysis	Line crossing detection, intrusion detection			
	Face Detection	Yes			
19.	Region of Interest	1 fixed region for main stream and sub-stream			
20.	Max. Resolution	1920*1080P			
21.	Back Light Compensation	Yes			
22.	Dynamic Noise Reduction	3D			
23.	Image Setting	Rotate mode, saturation, brightness, contrast, sharpness adjustable by client software or web browser			
24.	Day/Night Switch	Auto, scheduled			
25.	Network Storage	Support Micro SD/SDHC/SDXC card (128G), local storage and NAS (NFS,SMB/CIFS)			
26.	Automatic Network Replenishment	After recovery of the network, the NVR automatically retrieves the video data stored on the camera.			
27.	Alarm Trigger	Motion detection, video tampering, network disconnected, IP address conflict, illegal login, HDD full, HDD error			
28.	Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, NTP, UPnP™, SMTP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour			
29.	General Function	One-key reset, anti-flicker, heartbeat, mirror, password protection, privacy mask, watermark			

30.	User/Host	Up to 32 users 3 levels: Administrator, Operator and User			
	Alarm	1 input, 1output			
31.	Communication Interface	1 RJ45 10M/100M self-adaptive Ethernet port			
32.	Reset Button	Yes			
33.	Environment Noise Filtering	Yes			
34.	Operating Conditions	(-)30 °C to +60 °C (-)22 °F to +140 °F), Humidity 95% or less (non-condensing)			
35.	Power Supply	12 VDC ± 25%, PoE (802.3at, class 4) TVS 2000V lightning protection, surge protection and voltage transient protection			
36.	Material	metallic			
37.	Protection Level	IP67,			
(3) 64CH NVR			YES /NO	Unit	Qty.
S. No.	Features	Description		No.	1
1.	Make	HIKVISION			
2.	Model				
3.	Power Supply	100 ~ 240 V AC, 6.3 A, 50 ~ 60 Hz			
4.	Consumption	≤ 30 W (without HDD)			
5.	Operating System	Linux			
VIDEO/AUDIO INPUT					
6.	Video Input	Up to 64-ch IP video input, and 320Mbps incoming bandwidth			
7.	Audio input	1-ch voice talk input, RCA (2.0 Vp-p, 1kohm)			
VIDEO/AUDIO OUTPUT					
8.	Recording resolution	12MP/ 8MP/ 6MP/ 5MP / 4MP/ 3MP /1080P /UXGA /720P /VGA /4CIF /DCIF /2CIF /CIF /QCIF			
9.	4k HDMI output	2 HDMI, resolution: HDMI1:3840×2160@60Hz, 3840×2160@30Hz, 2560×1440@60Hz, 1920×1080P@60Hz, 1600×1200@60 Hz, 1280×1024@60 Hz, 1280× 720@60 Hz, 1024×768@60Hz HDMI2: 1920×1080P@60Hz, 1280×1024@60 Hz, 1280× 720@60 Hz, 1024×768@60Hz			
10.	VGA output	2 VGA, resolution: VGA1: 2560×1440@60Hz, 1920×1080P@60Hz, 1600×1200@60 Hz, 1280×1024@60 Hz, 1280× 720@60 Hz, 1024×768@60Hz VGA2: 1920×1080P@60Hz, 1280×1024@60 Hz, 1280× 720@60 Hz, 1024×768@60Hz			

11.	Playback Resolution	12MP/ 8MP/ 6MP/ 5MP / 4MP/ 3MP /1080P /UXGA /720P /VGA /4CIF /DCIF /2CIF /CIF /QCIF			
	compression	H.265+,H.265			
12.	Audio output	2-ch, RCA (2.0 Vp-p, 1kohm)			
13.	Dual stream	Support			
14.	Synchronous playback	16-ch 1080P			
	STORAGE				
15.	SATA	8 SATA interfaces			
16.	eSATA	1 eSATA interface			
17.	Capacity	Up to 10TB capacity for each HDD			
	RAID TECHNOLOGY	HDD hot swap with RAID0, RAID1, RAID5, RAID6 and RAID10 storage configurable			
	EXTERNAL INTERFACE				
18.	Network Interface	2x 10M, 100M, 1000M self-adaptive Ethernet interface, dual IP, network redundancy			
19.	Network bandwidth	Up to 320Mbps input, 256Mbps output, up to 128 output network streams for remote connection			
20.	Serial Interfaces	1 RS-232, 1 RS-485 for keyboard, and 1 extra RS-485 reserved			
21.	USB interface	2 x USB 2.0, 1 x USB 3.0			
22.	Alarm Input	16			
23.	Alarm Output	4			
26.	Chassis	19" rack-mountable 2U chassis			
	ENVIRONMENTAL				
27.	Working Temperature	(-)10 °C ~ +55 °C (14 °F ~ 131 °F)			
28.	Working Humidity	10% ~ 90%			
S. No.	Item description	Model	YES /NO	Unit	Qty.
4.	24 port Managed PoE Switch	D-Link		Nos.	3
5.	6 HDD	Seagate/WDR		Nos.	5
6.	9U Wallmount Rack with all assoseries	D-Link		No.	1
7.	6U Wallmount Rack with all assoseries	D-Link		Nos.	2
8.	Patch cord 1 mtr. Length	D-Link		Nos.	40
9.	Rj-45 Connector	D-Link		No.	1
10.	LED 4K Professional Display(55")	LG		No.	1

11.	Desktop PC, Core i5 4 GB RAM, 1TB HD with original window	HP		No.	1
12.	2 KVA Online UPS for 1 hr. power back up	Emerson/Libert		No.	1
13.	Power supply board	Branded		Nos.	4
14.	CAT 6 UTP cable	D-Link/Tyco		Nos.	4

34. Technical Specifications for Supply, Installation & Commissioning of CCTV Surveillance System in the Court Complex at Nilagiri, Balasore:

(1) 2MP WDR Vari-focal Network Dome Camera			YES/NO	Unit	Qty.
S. No.	Features	Description		Nos.	20
1.	Make	HIKVISION			
2.	Model				
3.	Camera Type	Varifocal Dome			
4.	Standard	ONVIF (PROFILE S, PROFILE G), ISAPI			
5.	Certification	UL, CE ,FCC			
6.	Image Sensor	1/2.8" Progressive Scan CMOS			
7.	Min. Illumination	Color: 0.01 Lux or better			
8.	Shutter Speed	1/3s to 1/100,000s			
9.	Day & Night	IR Cut Filter			
10.	WDR	yes			
11.	Angle Adjustment	Pan: 0° to 355°, tilt: 0° to 75°, rotation: 0° to 355°			
12.	Focal length	2.8 to 12 mm			
13.	Aperture	F1.6			
14.	FOV	Horizontal field of view: 105° to 34.5° Vertical field of view: 55° to 19° Diagonal field of view: 125° to 40°			
15.	Lens Mount	Φ14			
16.	IR Range	Upto 30 m			
17.	Video Compression	H.265+,H.265.			
18.	Video Bit Rate	32 Kbps to 16 Mbps			
	Audio Compression	G.711/G.722.1/G.726/MP2L2/PCM			
	Behavior Analysis	Line crossing detection, intrusion detection			
	Face Detection	Yes			
19.	Region of Interest	1 fixed region for main stream and sub-stream			
20.	Max. Resolution	1920*1080			
21.	Back Light Compensation	Yes			

22.	Dynamic Noise Reduction	3D		
23.	Image Setting	Rotate mode, saturation, brightness, contrast, sharpness adjustable by client software or web browser		
24.	Day/Night Switch	Auto, scheduled		
25.	Network Storage	Support Micro SD/SDHC/SDXC card (128G), local storage and NAS (NFS,SMB/CIFS)		
26.	Automatic Network Replenishment	After recovery of the network, the NVR automatically retrieves the video data stored on the camera.		
27.	Alarm Trigger	Motion detection, video tampering, network disconnected, IP address conflict, illegal login, HDD full, HDD error		
28.	Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, NTP, UPnP™, SMTP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour		
29.	General Function	One-key reset, anti-flicker, heartbeat, mirror, password protection, privacy mask, watermark		
30.	User/Host	Up to 32 users 3 levels: Administrator, Operator and User		
	Alarm	1 input, 1output		
31.	Communication Interface	1 RJ45 10M/100M self-adaptive Ethernet port		
32.	Reset Button	Yes		
	Environment Noise Filtering	Yes		
33.	Operating Conditions	(-30 °C to +60 °C (-)22 °F to +140 °F), Humidity 95% or less (non-condensing)		
	Material	Metalic,IK10		
34.	Power Supply	12 VDC ± 25%, PoE (802.3at, class 4)		
35.	Protection Level	IP67, TVS 2000V lightning protection, surge protection and voltage transient protection		
(2) 2MP WDR Vari-focal Network Bullet Camera			YES/NO	Unit
S. No.	Features	Description		Nos.
1.	Make	HIKVISION		12
2.	Model			
3.	Camera Type	Varifocal Bullet		
4.	Standard	ONVIF (PROFILE S, PROFILE G), ISAPI		
5.	Certification	UL, CE ,FCC		
6.	Image Sensor	1/2.8" Progressive Scan CMOS		
7.	Min. Illumination	Color: 0.01 Lux or better		
8.	Shutter Speed	1/3s to 1/100,000s		
9.	Day & Night	IR Cut Filter		
10.	WDR	YES		

11.	Angle Adjustment	Pan: 0° to 355°, tilt: 0° to 90°, rotation: 0° to 355°	
12.	Focal length	2.8 to 12 mm	
15.	Lens Mount	Φ14	
16.	IR Range	Upto 30 m	
17.	Video Compression	H.265+,H.265	
18.	Video Bit Rate	32 Kbps to 16 Mbps	
	Audio Compression	G.711/G.722.1/G.726/MP2L2/PCM	
	Behavior Analysis	Line crossing detection, intrusion detection	
	Face Detection	Yes	
19.	Region of Interest	1 fixed region for main stream and sub-stream	
20.	Max. Resolution	1920*1080P	
21.	Back Light Compensation	Yes	
22.	Dynamic Noise Reduction	3D	
23.	Image Setting	Rotate mode, saturation, brightness, contrast, sharpnessadjustable by client software or web browser	
24.	Day/Night Switch	Auto, scheduled	
25.	Network Storage	Support Micro SD/SDHC/SDXC card (128G), local storage and NAS (NFS,SMB/CIFS)	
26.	Automatic Network Replenishment	After recovery of the network, the NVR automatically retrieves the video data stored on the camera.	
27.	Alarm Trigger	Motion detection, video tampering, network disconnected, IP address conflict, illegal login, HDD full, HDD error	
28.	Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, NTP, UPnP™, SMTP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour	
29.	General Function	One-key reset, anti-flicker, heartbeat, mirror, password protection, privacy mask, watermark	
30.	User/Host	Up to 32 users 3 levels: Administrator, Operator and User	
	Alarm	1 input, 1output	
31.	Communication Interface	1 RJ45 10M/100M self-adaptive Ethernet port	
32.	Reset Button	Yes	
33.	Environment Noise Filtering	Yes	
34.	Operating Conditions	(-)30 °C to +60 °C (-)22 °F to +140 °F), Humidity 95% or less (non -condensing)	

35.	Power Supply	12 VDC \pm 25%, PoE (802.3at, class 4) TVS 2000V lightning protection, surge protection and voltage transient protection			
36.	Material	metallic			
37.	Protection Level	IP67,			
(3) 64CH NVR			YES /NO	Unit	Qty.
S. No.	Features	Description		No.	1
1.	Make	HIKVISION			
2.	Model				
3.	Power Supply	100 - 240 V AC, 6.3 A, 50 ~ 60 Hz			
4.	Consumption	\leq 30 W (without HDD)			
5.	Operating System	Linux			
VIDEO/AUDIO INPUT					
6.	Video Input	Up to 64-ch IP video input, and 320Mbps incoming bandwidth			
7.	Audio input	1-ch voice talk input, RCA (2.0 Vp-p, 1kohm)			
VIDEO/AUDIO OUTPUT					
8.	Recording resolution	12MP/ 8MP/ 6MP/ 5MP / 4MP/ 3MP /1080P /UXGA /720P /VGA /4CIF /DCIF /2CIF /CIF /QCIF			
9.	4k HDMI output	2 HDMI, resolution: HDMI1:3840 \times 2160@60Hz, 3840 \times 2160@30Hz, 2560 \times 1440@60Hz, 1920 \times 1080P@60Hz, 1600 \times 1200@60 Hz, 1280 \times 1024@60 Hz, 1280 \times 720@60 Hz, 1024 \times 768@60Hz HDMI2: 1920 \times 1080P@60Hz, 1280 \times 1024@60 Hz, 1280 \times 720@60 Hz, 1024 \times 768@60Hz			
10.	VGA output	2 VGA, resolution: VGA1: 2560 \times 1440@60Hz, 1920 \times 1080P@60Hz, 1600 \times 1200@60 Hz, 1280 \times 1024@60 Hz, 1280 \times 720@60 Hz, 1024 \times 768@60Hz VGA2: 1920 \times 1080P@60Hz, 1280 \times 1024@60 Hz, 1280 \times 720@60 Hz, 1024 \times 768@60Hz			
11.	Playback Resolution	12MP/ 8MP/ 6MP/ 5MP / 4MP/ 3MP /1080P /UXGA /720P /VGA /4CIF /DCIF /2CIF /CIF /QCIF			
	compression	H.265+,H.265			
12.	Audio output	2-ch, RCA (2.0 Vp-p, 1kohm)			
13.	Dual stream	Support			
14.	Synchronous playback	16-ch 1080P			
STORAGE					
15.	SATA	8 SATA interfaces			
16.	eSATA	1 eSATA interface			
17.	Capacity	Up to 10TB capacity for each HDD			

	RAID TECHNOLOGY	HDD hot swap with RAID0, RAID1, RAID5, RAID6 and RAID10 storage configurable			
	EXTERNAL INTERFACE				
18.	Network Interface	2x 10M, 100M, 1000M self-adaptive Ethernet interface, dual IP, network redundancy			
19.	Network bandwidth	Up to 320Mbps input, 256Mbps output, up to 128 output network streams for remote connection			
20.	Serial Interfaces	1 RS-232, 1 RS-485 for keyboard, and 1 extra RS-485 reserved			
21.	USB interface	2 x USB 2.0, 1 x USB 3.0			
22.	Alarm Input	16			
23.	Alarm Output	4			
26.	Chassis	19" rack-mountable 2U chassis			
	ENVIRONMENTAL				
27.	Working Temperature	(-)10 °C ~ +55 °C (14 °F ~ 131 °F)			
28.	Working Humidity	10% ~ 90%			
S. No.	Item description	Model	YES /NO	Unit	Qty.
4.	24 port Managed PoE Switch	D-Link		Nos.	3
5.	6 HDD	Seagate/WDR		Nos.	5
6.	9U Wallmount Rack with all assoseries	D-Link		No.	1
7.	6U Wallmount Rack with all assoseries	D-Link		Nos.	1
8.	Patch cord 1 mtr. Length	D-Link		Nos.	40
9.	Rj-45 Connector	D-Link		No.	1
10.	LED 4K Professional Display(55")	LG		No.	1
11.	Desktop PC, Core i5 4 GB RAM, 1TB HD with original window	HP		No.	1
12.	2 KVA Online UPS for 1 hr. power back up	Emerson/Libert		No.	1
13.	Power supply board	Branded		Nos.	2
14.	CAT 6 UTP cable	D-Link/Tyco		Nos.	5

35. Technical Specifications for Supply, Installation & Commissioning of CCTV Surveillance System in the Court Complex at Jaleswar, Balasore:

(1) 2MP WDR Vari-focal Network Dome Camera			YES/NO	Unit	Qty.
S. No.	Features	Description		Nos.	12
1.	Make	HIKVISION			
2.	Model				
3.	Camera Type	Varifocal Dome			
4.	Standard	ONVIF (PROFILE S, PROFILE G), ISAPI			
5.	Certification	UL, CE ,FCC			
6.	Image Sensor	1/2.8" Progressive Scan CMOS			
7.	Min. Illumination	Color: 0.01 Lux or better			
8.	Shutter Speed	1/3s to 1/100,000s			
9.	Day & Night	IR Cut Filter			
10.	WDR	yes			
11.	Angle Adjustment	Pan: 0° to 355°, tilt: 0° to 75°, rotation: 0° to 355°			
12.	Focal length	2.8 to 12 mm			
13.	Aperture	F1.6			
14.	FOV	Horizontal field of view: 105° to 34.5° Vertical field of view: 55° to 19° Diagonal field of view: 125° to 40°			
15.	Lens Mount	Φ14			
16.	IR Range	Upto 30 m			
17.	Video Compression	H.265+,H.265.			
18.	Video Bit Rate	32 Kbps to 16 Mbps			
	Audio Compression	G.711/G.722.1/G.726/MP2L2/PCM			
	Behavior Analysis	Line crossing detection, intrusion detection			
	Face Detection	Yes			
19.	Region of Interest	1 fixed region for main stream and sub-stream			
20.	Max. Resolution	1920*1080			
21.	Back Light Compensation	Yes			
22.	Dynamic Noise Reduction	3D			
23.	Image Setting	Rotate mode, saturation, brightness, contrast, sharpnessadjustable by client software or web browser			
24.	Day/Night Switch	Auto, scheduled			
25.	Network Storage	Support Micro SD/SDHC/SDXC card (128G), local storage and NAS (NFS,SMB/CIFS)			
26.	Automatic Network Replenishment	After recovery of the network, the NVR automatically retrieves the video data stored on the camera.			

27.	Alarm Trigger	Motion detection, video tampering, network disconnected, IP address conflict, illegal login, HDD full, HDD error			
28.	Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, NTP, UPnP™, SMTP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour			
29.	General Function	One-key reset, anti-flicker, heartbeat, mirror, password protection, privacy mask, watermark			
30.	User/Host	Up to 32 users 3 levels: Administrator, Operator and User			
	Alarm	1 input, 1 output			
31.	Communication Interface	1 RJ45 10M/100M self-adaptive Ethernet port			
32.	Reset Button	Yes			
	Environment Noise Filtering	Yes			
33.	Operating Conditions	(-)30 °C to +60 °C (-)22 °F to +140 °F), Humidity 95% or less (non-condensing)			
	Material	Metalic,IK10			
34.	Power Supply	12 VDC ± 25%, PoE (802.3at, class 4)			
35.	Protection Level	IP67, TVS 2000V lightning protection, surge protection and voltage transient protection			
(2) 2MP WDR Vari-focal Network Bullet Camera			YES/NO	Unit	Qty.
S. No.	Features	Description		Nos.	12
1.	Make	HIKVISION			
2.	Model				
3.	Camera Type	Varifocal Bullet			
4.	Standard	ONVIF (PROFILE S, PROFILE G), ISAPI			
5.	Certification	UL, CE ,FCC			
6.	Image Sensor	1/2.8" Progressive Scan CMOS			
7.	Min. Illumination	Color: 0.01 Lux or better			
8.	Shutter Speed	1/3s to 1/100,000s			
9.	Day & Night	IR Cut Filter			
10.	WDR	YES			
11.	Angle Adjustment	Pan: 0° to 355°, tilt: 0° to 90°, rotation: 0° to 355°			
12.	Focal length	2.8 to 12 mm			
15.	Lens Mount	Φ14			
16.	IR Range	Upto 30 m			
17.	Video Compression	H.265+,H.265			
18.	Video Bit Rate	32 Kbps to 16 Mbps			
	Audio Compression	G.711/G.722.1/G.726/MP2L2/PCM			
	Behavior Analysis	Line crossing detection, intrusion detection			
	Face Detection	Yes			

19.	Region of Interest	1 fixed region for main stream and sub-stream			
20.	Max. Resolution	1920*1080P			
21.	Back Light Compensation	Yes			
22.	Dynamic Noise Reduction	3D			
23.	Image Setting	Rotate mode, saturation, brightness, contrast, sharpness adjustable by client software or web browser			
24.	Day/Night Switch	Auto, scheduled			
25.	Network Storage	Support Micro SD/SDHC/SDXC card (128G), local storage and NAS (NFS,SMB/CIFS)			
26.	Automatic Network Replenishment	After recovery of the network, the NVR automatically retrieves the video data stored on the camera.			
27.	Alarm Trigger	Motion detection, video tampering, network disconnected, IP address conflict, illegal login, HDD full, HDD error			
28.	Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, NTP, UPnP™, SMTP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour			
29.	General Function	One-key reset, anti-flicker, heartbeat, mirror, password protection, privacy mask, watermark			
30.	User/Host	Up to 32 users 3 levels: Administrator, Operator and User			
	Alarm	1 input, 1output			
31.	Communication Interface	1 RJ45 10M/100M self-adaptive Ethernet port			
32.	Reset Button	Yes			
33.	Environment Noise Filtering	Yes			
34.	Operating Conditions	(-)30 °C to +60 °C (-)22 °F to +140 °F), Humidity 95% or less (non-condensing)			
35.	Power Supply	12 VDC ± 25%, PoE (802.3at, class 4) TVS 2000V lightning protection, surge protection and voltage transient protection			
36.	Material	metallic			
37.	Protection Level	IP67,			
(3) 64CH NVR			YES /NO	Unit	Qty.
S. No.	Features	Description		No.	1
1.	Make	HIKVISION			
2.	Model				
3.	Power Supply	100 ~ 240 V AC, 6.3 A, 50 ~ 60 Hz			
4.	Consumption	≤ 30 W (without HDD)			
5.	Operating System	Linux			

VIDEO/AUDIO INPUT			
6.	Video Input	Up to 64-ch IP video input, and 320Mbps incoming bandwidth	
7.	Audio input	1-ch voice talk input, RCA (2.0 Vp-p, 1kohm)	
VIDEO/AUDIO OUTPUT			
8.	Recording resolution	12MP/ 8MP/ 6MP/ 5MP / 4MP/ 3MP /1080P /UXGA /720P /VGA /4CIF /DCIF /2CIF /CIF /QCIF	
9.	4k HDMI output	2 HDMI, resolution: HDMI1:3840×2160@60Hz, 3840×2160@30Hz, 2560×1440@60Hz, 1920×1080P@60Hz, 1600×1200@60 Hz, 1280×1024@60 Hz, 1280× 720@60 Hz, 1024×768@60Hz HDMI2: 1920×1080P@60Hz, 1280×1024@60 Hz, 1280× 720@60 Hz, 1024×768@60Hz	
10.	VGA output	2 VGA, resolution: VGA1: 2560×1440@60Hz, 1920×1080P@60Hz, 1600×1200@60 Hz, 1280×1024@60 Hz, 1280× 720@60 Hz, 1024×768@60Hz VGA2: 1920×1080P@60Hz, 1280×1024@60 Hz, 1280× 720@60 Hz, 1024×768@60Hz	
11.	Playback Resolution	12MP/ 8MP/ 6MP/ 5MP / 4MP/ 3MP /1080P /UXGA /720P /VGA /4CIF /DCIF /2CIF /CIF /QCIF	
	compression	H.265+,H.265	
12.	Audio output	2-ch, RCA (2.0 Vp-p, 1kohm)	
13.	Dual stream	Support	
14.	Synchronous playback	16-ch 1080P	
STORAGE			
15.	SATA	8 SATA interfaces	
16.	eSATA	1 eSATA interface	
17.	Capacity	Up to 10TB capacity for each HDD	
	RAID TECHNOLOGY	HDD hot swap with RAID0, RAID1, RAID5, RAID6 and RAID10 storage configurable	
EXTERNAL INTERFACE			
18.	Network Interface	2x 10M, 100M, 1000M self-adaptive Ethernet interface, dual IP, network redundancy	
19.	Network bandwidth	Up to 320Mbps input, 256Mbps output, up to 128 output network streams for remote connection	
20.	Serial Interfaces	1 RS-232, 1 RS-485 for keyboard, and 1 extra RS-485 reserved	
21.	USB interface	2 x USB 2.0, 1 x USB 3.0	
22.	Alarm Input	16	
23.	Alarm Output	4	
26.	Chassis	19" rack-mountable 2U chassis	

ENVIRONMENTAL					
27.	Working Temperature	(-)10 °C ~ +55 °C (14 °F ~ 131 °F)			
28.	Working Humidity	10% ~ 90%			
S. No.	Item description	Model	YES /NO	Unit	Qty.
4.	24 port Managed PoE Switch	D-Link		Nos.	2
5.	6 HDD	Seagate/WDR		Nos.	5
6.	9U Wallmount Rack with all assoseries	D-Link		No.	1
7.	6U Wallmount Rack with all assoseries	D-Link		No.	1
8.	Patch cord 1 mtr. Length	D-Link		Nos.	30
9.	Rj-45 Connector	D-Link		No.	1
10.	LED 4K Professional Display(55")	LG		No.	1
11.	Desktop PC, Core i5 4 GB RAM, 1TB HD with original window	HP		No.	1
12.	2 KVA Online UPS for 1 hr. power back up	Emerson/Libert		No.	1
13.	Power supply board	Branded		Nos.	2
14.	CAT 6 UTP cable	D-Link/Tyco		Nos.	4

36. Technical Specifications for Supply, Installation & Commissioning of CCTV Surveillance System in the Court Complex at Bhograi, Balasore:

(1) 2MP WDR Vari-focal Network Dome Camera			YES/NO	Unit	Qty.
S. No.	Features	Description		Nos.	4
1.	Make	HIKVISION			
2.	Model				
3.	Camera Type	Varifocal Dome			
4.	Standard	ONVIF (PROFILE S, PROFILE G), ISAPI			
5.	Certification	UL, CE ,FCC			
6.	Image Sensor	1/2.8" Progressive Scan CMOS			
7.	Min. Illumination	Color: 0.01 Lux or better			
8.	Shutter Speed	1/3s to 1/100,000s			
9.	Day & Night	IR Cut Filter			

10.	WDR	yes	
11.	Angle Adjustment	Pan: 0° to 355°, tilt: 0° to 75°, rotation: 0° to 355°	
12.	Focal length	2.8 to 12 mm	
13.	Aperture	F1.6	
14.	FOV	Horizontal field of view: 105° to 34.5° Vertical field of view: 55° to 19° Diagonal field of view: 125° to 40°	
15.	Lens Mount	Φ14	
16.	IR Range	Upto 30 m	
17.	Video Compression	H.265+,H.265.	
18.	Video Bit Rate	32 Kbps to 16 Mbps	
	Audio Compression	G.711/G.722.1/G.726/MP2L2/PCM	
	Behavior Analysis	Line crossing detection, intrusion detection	
	Face Detection	Yes	
19.	Region of Interest	1 fixed region for main stream and sub-stream	
20.	Max. Resolution	1920*1080	
21.	Back Light Compensation	Yes	
22.	Dynamic Noise Reduction	3D	
23.	Image Setting	Rotate mode, saturation, brightness, contrast, sharpness adjustable by client software or web browser	
24.	Day/Night Switch	Auto, scheduled	
25.	Network Storage	Support Micro SD/SDHC/SDXC card (128G), local storage and NAS (NFS,SMB/CIFS)	
26.	Automatic Network Replenishment	After recovery of the network, the NVR automatically retrieves the video data stored on the camera.	
27.	Alarm Trigger	Motion detection, video tampering, network disconnected, IP address conflict, illegal login, HDD full, HDD error	
28.	Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, NTP, UPnP™, SMTP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour	
29.	General Function	One-key reset, anti-flicker, heartbeat, mirror, password protection, privacy mask, watermark	
30.	User/Host	Up to 32 users 3 levels: Administrator, Operator and User	
	Alarm	1 input, 1 output	
31.	Communication Interface	1 RJ45 10M/100M self-adaptive Ethernet port	
32.	Reset Button	Yes	
	Environment Noise Filtering	Yes	
33.	Operating Conditions	(-)30 °C to +60 °C (-)22 °F to +140 °F), Humidity 95% or less (non-condensing)	

	Material	Metalic,IK10		
34.	Power Supply	12 VDC \pm 25%, PoE (802.3at, class 4)		
35.	Protection Level	IP67, TVS 2000V lightning protection, surge protection and voltage transient protection		
(2) 2MP WDR Vari-focal Network Bullet Camera			YES/NO	Unit
S. No.	Features	Description		Qty.
				6
1.	Make	HIKVISION		
2.	Model			
3.	Camera Type	Varifocal Bullet		
4.	Standard	ONVIF (PROFILE S, PROFILE G), ISAPI		
5.	Certification	UL, CE ,FCC		
6.	Image Sensor	1/2.8" Progressive Scan CMOS		
7.	Min. Illumination	Color: 0.01 Lux or better		
8.	Shutter Speed	1/3s to 1/100,000s		
9.	Day & Night	IR Cut Filter		
10.	WDR	YES		
11.	Angle Adjustment	Pan: 0° to 355°, tilt: 0° to 90°, rotation: 0° to 355°		
12.	Focal length	2.8 to 12 mm		
15.	Lens Mount	Φ 14		
16.	IR Range	Upto 30 m		
17.	Video Compression	H.265+,H.265		
18.	Video Bit Rate	32 Kbps to 16 Mbps		
	Audio Compression	G.711/G.722.1/G.726/MP2L2/PCM		
	Behavior Analysis	Line crossing detection, intrusion detection		
	Face Detection	Yes		
19.	Region of Interest	1 fixed region for main stream and sub-stream		
20.	Max. Resolution	1920*1080P		
21.	Back Light Compensation	Yes		
22.	Dynamic Noise Reduction	3D		
23.	Image Setting	Rotate mode, saturation, brightness, contrast, sharpnessadjustable by client software or web browser		
24.	Day/Night Switch	Auto, scheduled		
25.	Network Storage	Support Micro SD/SDHC/SDXC card (128G), local storage and NAS (NFS,SMB/CIFS)		
26.	Automatic Network Replenishment	After recovery of the network, the NVR automatically retrieves the video data stored on the camera.		
27.	Alarm Trigger	Motion detection, video tampering, network disconnected, IP address conflict, illegal login, HDD full, HDD error		

28.	Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, NTP, UPnP™, SMTP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour			
29.	General Function	One-key reset, anti-flicker, heartbeat, mirror, password protection, privacy mask, watermark			
30.	User/Host	Up to 32 users 3 levels: Administrator, Operator and User			
	Alarm	1 input, 1output			
31.	Communication Interface	1 RJ45 10M/100M self-adaptive Ethernet port			
32.	Reset Button	Yes			
33.	Environment Noise Filtering	Yes			
34.	Operating Conditions	(-)30 °C to +60 °C (-)22 °F to +140 °F), Humidity 95% or less (non-condensing)			
35.	Power Supply	12 VDC ± 25%, PoE (802.3at, class 4) TVS 2000V lightning protection, surge protection and voltage transient protection			
36.	Material	metallic			
37.	Protection Level	IP67,			
(3) 32CH NVR			YES /NO	Unit	Qty.
S. No.	Features	Description		No.	1
1.	Make	Hikvision			
2.	Model				
3.	Power Supply	100 ~ 240 V AC, 6.3 A, 50 - 60 Hz			
4.	Consumption	≤ 30 W (without HDD)			
5.	Operating System	DUAL OS Linux Based			
VIDEO/AUDIO INPUT					
6.	Video Input	Up to 32-ch IP video input, and 320Mbps incoming bandwidth			
7.	Audio input	1-ch voice talk input, RCA (2.0 Vp-p, 1kohm)			
VIDEO/AUDIO OUTPUT					
8.	Recording resolution	12MP/ 8MP/ 6MP/ 5MP / 4MP/ 3MP /1080P /UXGA /720P /VGA /4CIF /DCIF /2CIF /CIF /QCIF			
9.	4k HDMI output	2 HDMI, resolution: HDMI1:3840×2160@60Hz, 3840×2160@30Hz, 2560×1440@60Hz, 1920×1080P@60Hz, 1600×1200@60 Hz, 1280×1024@60 Hz, 1280× 720@60 Hz, 1024×768@60Hz HDMI2: 1920×1080P@60Hz, 1280×1024@60 Hz, 1280× 720@60 Hz, 1024×768@60Hz			

10.	VGA output	2 VGA, resolution: VGA1: 2560×1440@60Hz, 1920×1080P@60Hz, 1600×1200@60 Hz, 1280×1024@60 Hz, 1280× 720@60 Hz, 1024×768@60Hz VGA2: 1920×1080P@60Hz, 1280×1024@60 Hz, 1280× 720@60 Hz, 1024×768@60Hz			
11.	Playback Resolution	12MP/ 8MP/ 6MP/ 5MP / 4MP/ 3MP /1080P /UXGA /720P /VGA /4CIF /DCIF /2CIF /CIF /QCIF			
	COMPRESSION	H.265+ ,H.265			
12.	Audio output	2-ch, RCA (2.0 Vp-p, 1kohm)			
13.	Dual stream	Support			
14.	Synchronous playback	16-ch 1080P			
	STORAGE				
15.	SATA	8 SATA interfaces			
16.	eSATA	1 eSATA interface			
17.	Capacity	Up to 10TB capacity for each HDD			
	Raid technology	HDD hot swap with RAID0, RAID1, RAID5, RAID6 and RAID10 storage configurable			
	EXTERNAL INTERFACE				
18.	Network Interface	2x 10M, 100M, 1000M self-adaptive Ethernet interface, dual IP, network redundancy			
19.	Network bandwidth	Up to 320Mbps input, 256Mbps output, up to 128 output network streams for remote connection			
20.	Serial Interfaces	1 RS-232, 1 RS-485 for keyboard, and 1 extra RS-485 reserved			
21.	USB interface	2 x USB 2.0, 1 x USB 3.0			
22.	Alarm Input	16			
23.	Alarm Output	4			
	PHYSICAL SPECIFICATIONS				
26.	Chassis	19" rack-mountable 2U chassis			
	ENVIRONMENTAL				
27.	Working Temperature	(-)10 °C ~ +55 °C (14 °F ~ 131 °F)			
28.	Working Humidity	10% ~ 90%			
S. No.	Item description	Model	YES /NO	Unit	Qty.
4.	24 port Managed PoE Switch	D-Link		Nos.	1
5.	6 HDD	Seagate/WDR		Nos.	3
6.	9U Wallmount Rack with all assoseries	D-Link		No.	1
8.	Patch cord 1 mtr. Length	D-Link		Nos.	20

9.	Rj-45 Connector	D-Link		No.	1
10.	LED 4K Professional Display(55")	LG		No.	1
11.	Desktop PC, Core i5 4 GB RAM, 1TB HD with original window	HP		No.	1
12.	2 KVA Online UPS for 1 hr. power back up	Emerson/Libert		No.	1
13.	Power supply board	Branded		Nos.	2
14.	CAT 6 UTP cable	D-Link/Tyco		Nos.	2

OPTIONAL:

AMC	AMC charges for 5 years after completion of warranty period			Remarks
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Date:**Name, Signature and Seal of Bidder**

Annexure-II

**AGREED TERMS AND CONDITIONS
(TO BE FILLED BY INDIAN BIDDERS QUOTING ONLY IN INDIAN RUPEES)**

Important Notes:

(A) This questionnaire (ATC) duly filled-in the same word file must be submitted along with the offer, failing which your offer will be liable for rejection. This document received in any other form will not be accepted and can lead to rejection of offer.

(B) Each point must be confirmed / replied suitably.

(C) Bidders to note that the confirmation/acceptance/comments mentioned/agreed by them in this ATC are final and will supersede any contrary term indicated elsewhere in their quotation/tender documents.

Sl. No.	Description/Tender Requirement	Vendor's Reply
Vendor Compliance to Technical Conditions		
1	Confirm that the offer has been submitted strictly as per the tender requirements.	
2	Confirm that all pages of "Technical Specifications" have been submitted with the technical bid as a token of acceptance.	
3	Confirm that all the documents related to "Technical Criteria for acceptance of offer" have been submitted with the technical bid.	
4	Confirm that there is no technical deviation and specification of offered product is same as per tender specification.	
Vendor Compliance to Commercial Conditions		
1	Confirm that you are a OEM OR Authorized dealer of CCTV Cameras. In case of authorized dealer of CCTV Camera submit authorization letter along with your bid.	
2	Confirm that the quoted prices are in Indian Rupees	
3	Confirm that the Prices shall be FIRM and FIXED till complete execution of order and shall not be subject to variation on any account.	
4	Confirm unconditionally acceptance that any bidder making a false claim would have it's contract terminated forthwith, if detected later.	

5	Confirm unconditionally that your quotation is valid for acceptance up to 1 year from the closing date of this enquiry.	
6	Please note that Packaging & Forwarding charges or any other charges should be included in Price Bid. The total price of all items put together will be considered for price evaluation.	
7	Please Confirm that your firm have not been banned or delisted by any Government or Quasi Government agencies or PSUs. This does not necessarily by the cause for disqualification. However if this declaration is not furnished the bid may be rejected as non-responsive.	
8	Confirm that you shall supply the requisite operation / maintenance manual with the equipment.	
9	Please also confirm that spare parts shall be made available as and when required for a minimum period of 5 years from the date of successful completion of warranty period	
10	Confirm unconditional acceptance of comprehensive warranty (inclusive of absolutely free of charge delivery (all expenses paid) at out site and installation of replacement parts / spares and free of all expenses related to such service calls during the warranty period.	
11	<p>Confirm whether your firm is registered with any of the following in order to avail benefits / preference available vide Public Procurement Policy MSEs Order, 2012,</p> <p>(a) District Industries Centres (DIC) (b) Khadi and Village Industries Commission (KVIC) (c) Khadi and Village Industries Board (d) Coir Board (e) National Small Industries Corporation (NSIC) (f) Directorate of Handicraft and Handloom (g) Any other body specified by Ministry of MSME</p> <p>If Yes, then please mention with whom your firm is registered with as MSE and the proof for the same may be attached.</p>	

Date:

Name, Signature and Seal of Bidder

Annexure-III**FINANCIAL BID****(The Bidder has to quote for all the items below)**

Financial Bid for supply, installation, testing and commissioning of CCTV Surveillance System consisting of specified cameras with NVR/DVR, Digital Display Unit, Storage, LAN connection and other accessories required for surveillance of identified areas of different court complexes of Balasore Judgeship.

A. Quotation for Supply, Installation & Commissioning of CCTV Surveillance System in the District Court Complex at Balasore:

(1) 2MP WDR Vari-focal Network Dome Camera						
S. No.	Features	Description	Qty.	Brand	Unit Price	Estimated Cost (In Rs.)
1.	Make	HIKVISION	67			
2.	Model					
3.	Camera Type	Varifocal Dome				
4.	Standard	ONVIF (PROFILE S, PROFILE G), ISAPI				
5.	Certification	UL, CE ,FCC				
6.	Image Sensor	1/2.8" Progressive Scan CMOS				
7.	Min. Illumination	Color: 0.01 Lux or better				
8.	Shutter Speed	1/3s to 1/100,000s				
9.	Day & Night	IR Cut Filter				
10.	WDR	yes				
11.	Angle Adjustment	Pan: 0° to 355°, tilt: 0° to 75°, rotation: 0° to 355°				
12.	Focal length	2.8 to 12 mm				
13.	Aperture	F1.6				
14.	FOV	Horizontal field of view: 105° to 34.5° Vertical field of view: 55° to 19° Diagonal field of view: 125° to 40°				
15.	Lens Mount	Φ14				
16.	IR Range	Upto 30 m				
17.	Video Compression	H.265+,H.265.				
18.	Video Bit Rate	32 Kbps to 16 Mbps				
	Audio Compression	G.711/G.722.1/G.726/MP2L2/PCM				
	Behavior Analysis	Line crossing detection, intrusion detection				
	Face Detection	Yes				

19.	Region of Interest	1 fixed region for main stream and sub-stream			
20.	Max. Resolution	1920*1080			
21.	Back Light Compensation	Yes			
22.	Dynamic Noise Reduction	3D			
23.	Image Setting	Rotate mode, saturation, brightness, contrast, sharpness adjustable by client software or web browser			
24.	Day/Night Switch	Auto, scheduled			
25.	Network Storage	Support Micro SD/SDHC/SDXC card (128G), local storage and NAS (NFS,SMB/CIFS)			
26.	Automatic Network Replenishment	After recovery of the network, the NVR automatically retrieves the video data stored on the camera.			
27.	Alarm Trigger	Motion detection, video tampering, network disconnected, IP address conflict, illegal login, HDD full, HDD error			
28.	Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, NTP, UPnP™, SMTP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour			
29.	General Function	One-key reset, anti-flicker, heartbeat, mirror, password protection, privacy mask, watermark			
30.	User/Host	Up to 32 users 3 levels: Administrator, Operator and User			
	Alarm	1 input, 1output			
31.	Communication Interface	1 RJ45 10M/100M self-adaptive Ethernet port			
32.	Reset Button	Yes			
	Environment Noise Filtering	Yes			
33.	Operating Conditions	(-)30 °C to +60 °C (-)22 °F to +140 °F), Humidity 95% or less (non-condensing)			
	Material	Metalic,IK10			
34.	Power Supply	12 VDC ± 25%, PoE (802.3at, class 4)			
35.	Protection Level	IP67, TVS 2000V lightning protection, surge protection and voltage transient protection			

(2) 2MP WDR Vari-focal Network Bullet Camera						
S. No.	Features	Description	Qty.	Brand	Unit Price	Estimated Cost (In Rs.)
1.	Make	HIKVISION	02			
2.	Model					
3.	Camera Type	Varifocal Bullet				
4.	Standard	ONVIF (PROFILE S, PROFILE G), ISAPI				
5.	Certification	UL, CE ,FCC				
6.	Image Sensor	1/2.8" Progressive Scan CMOS				
7.	Min. Illumination	Color: 0.01 Lux or better				
8.	Shutter Speed	1/3s to 1/100,000s				
9.	Day & Night	IR Cut Filter				
10.	WDR	YES				
11.	Angle Adjustment	Pan: 0° to 355°, tilt: 0° to 90°, rotation: 0° to 355°				
12.	Focal length	2.8 to 12 mm				
15.	Lens Mount	Φ14				
16.	IR Range	Upto 30 m				
17.	Video Compression	H.265+,H.265				
18.	Video Bit Rate	32 Kbps to 16 Mbps				
	Audio Compression	G.711/G.722.1/G.726/MP2L2/PCM				
	Behavior Analysis	Line crossing detection, intrusion detection				
	Face Detection	Yes				
19.	Region of Interest	1 fixed region for main stream and sub-stream				
20.	Max. Resolution	1920*1080P				
21.	Back Light Compensation	Yes				
22.	Dynamic Noise Reduction	3D				
23.	Image Setting	Rotate mode, saturation, brightness, contrast, sharpnessadjustable by client software or web browser				
24.	Day/Night Switch	Auto, scheduled				
25.	Network Storage	Support Micro SD/SDHC/SDXC card (128G), local storage and NAS (NFS,SMB/CIFS)				
26.	Automatic Network Replenishment	After recovery of the network, the NVR automatically retrieves the video data stored on the camera.				

27.	Alarm Trigger	Motion detection, video tampering, network disconnected, IP address conflict, illegal login, HDD full, HDD error				
28.	Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, NTP, UPnP™, SMTP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour				
29.	General Function	One-key reset, anti-flicker, heartbeat, mirror, password protection, privacy mask, watermark				
30.	User/Host	Up to 32 users 3 levels: Administrator, Operator and User				
	Alarm	1 input, 1 output				
31.	Communication Interface	1 RJ45 10M/100M self-adaptive Ethernet port				
32.	Reset Button	Yes				
33.	Environment Noise Filtering	Yes				
34.	Operating Conditions	(-)30 °C to +60 °C (-)22 °F to +140 °F), Humidity 95% or less (non-condensing)				
35.	Power Supply	12 VDC ± 25%, PoE (802.3at, class 4) TVS 2000V lightning protection, surge protection and voltage transient protection				
36.	Material	metallic				
37.	Protection Level	IP67,				

(3) 128CH NVR

S. No.	Features	Description	Qty.	Brand	Unit Price	Estimated Cost (In Rs.)
1.	Make	HIKVISION	1			
2.	Model					
3.	Power Supply	100 ~ 240 V AC, 6.3 A, 50 ~ 60 Hz				
4.	Consumption	≤ 30 W (without HDD)				
5.	Operating System	DUAL OS Linux Based				
	VIDEO/AUDIO INPUT					
6.	Video Input	Up to 128-ch IP video input, and 320Mbps incoming bandwidth				
7.	Audio input	1-ch voice talk input, RCA (2.0 Vp-p, 1kohm)				
	VIDEO/AUDIO OUTPUT					
8.	Recording resolution	12MP/ 8MP/ 6MP/ 5MP / 4MP/ 3MP /1080P /UXGA /720P /VGA /4CIF /DCIF /2CIF /CIF /QCIF				

9.	4k HDMI output	2 HDMI, resolution: HDMI1:3840×2160@60Hz, 3840×2160@30Hz, 2560×1440@60Hz, 1920×1080P@60Hz, 1600×1200@60 Hz, 1280×1024@60 Hz, 1280× 720@60 Hz, 1024×768@60Hz HDMI2: 1920×1080P@60Hz, 1280×1024@60 Hz, 1280× 720@60 Hz, 1024×768@60Hz			
10.	VGA output	2 VGA, resolution: VGA1: 2560×1440@60Hz, 1920×1080P@60Hz, 1600×1200@60 Hz, 1280×1024@60 Hz, 1280× 720@60 Hz, 1024×768@60Hz VGA2: 1920×1080P@60Hz, 1280×1024@60 Hz, 1280× 720@60 Hz, 1024×768@60Hz			
11.	Playback Resolution	12MP/ 8MP/ 6MP/ 5MP / 4MP/ 3MP /1080P /UXGA /720P /VGA /4CIF /DCIF /2CIF /CIF /QCIF			
12.	compression	h.265+,h.265			
13.	Audio output	2-ch, RCA (2.0 Vp-p, 1kohm)			
14.	Dual stream	Support			
15.	Synchronous playback	16-ch 1080P			
16.	STORAGE				
17.	SATA	16 SATA interfaces			
18.	eSATA	1 eSATA interface			
19.	Capacity	Up to 10TB capacity for each HDD			
	RAID TECHNOLOGY	HDD hot swap with RAID0, RAID1, RAID5, RAID6 and RAID10 storage configurable			
	EXTERNAL INTERFACE				
20.	Network Interface	2x 10M, 100M, 1000M self-adaptive Ethernet interface, dual IP, network redundancy			
21.	Network bandwidth	Up to 320Mbps input, 256Mbps output, up to 128 output network streams for remote connection			
22.	Serial Interfaces	1 RS-232, 1 RS-485 for keyboard, and 1 extra RS-485 reserved			
23.	USB interface	2 x USB 2.0, 1 x USB 3.0			
24.	Alarm Input	16			
25.	Alarm Output	4			
26.	Chassis	19" rack-mountable 2U chassis			
27.	ENVIRONMENTAL				
28.	Working Temperature	(-)10 °C ~ +55 °C (14 °F ~ 131 °F)			

29.	Working Humidity	10% - 90%				
S. No.	Item description	Model	Qty.	Brand	Unit Price	Estimated Cost (In Rs.)
4	24 port Managed PoE Switch	D-Link	4			
5.	8 port Managed PoE Switch	D-Link	1			
6.	6 HDD	Seagate/WDR	10			
7.	9U Wallmount Rack with all assoseries	D-Link	1			
8.	6U Wallmount Rack with all assoseries	D-Link	3			
9.	Patch cord 1 mtr. Length	D-Link	72			
10	Rj-45 Connector	D-Link	1			
11.	LED 4K Professional Display (65")	LG	1			
12.	Desktop PC, Core i5 4 GB RAM, 1TB HD with original window	HP	1			
13.	2 KVA Online UPS for 1 hr. power back up	Emerson/Libert	1			
14.	Power supply board	Branded	4			
15.	CAT 6 UTP cable	D-Link/Tyco	10			

B. Quotation for Supply, Installation & Commissioning of CCTV Surveillance System in the Court Complex at S.D.J.M., Balasore:

(1) 2MP WDR Vari-focal Network Dome Camera						
S. No.	Features	Description	Qty.	Brand	Unit Price	Estimated Cost (In Rs.)
1.	Make	HIKVISION	11			
2.	Model					
3.	Camera Type	Varifocal Dome				
4.	Standard	ONVIF (PROFILE S, PROFILE G), ISAPI				
5.	Certification	UL, CE ,FCC				
6.	Image Sensor	1/2.8" Progressive Scan CMOS				
7.	Min. Illumination	Color: 0.01 Lux or better				

8.	Shutter Speed	1/3s to 1/100,000s			
9.	Day & Night	IR Cut Filter			
10.	WDR	yes			
11.	Angle Adjustment	Pan: 0° to 355°, tilt: 0° to 75°, rotation: 0° to 355°			
12.	Focal length	2.8 to 12 mm			
13.	Aperture	F1.6			
14.	FOV	Horizontal field of view: 105° to 34.5° Vertical field of view: 55° to 19° Diagonal field of view: 125° to 40°			
15.	Lens Mount	Φ14			
16.	IR Range	Upto 30 m			
17.	Video Compression	H.265+,H.265.			
18.	Video Bit Rate	32 Kbps to 16 Mbps			
	Audio Compression	G.711/G.722.1/G.726/MP2L2/PCM			
	Behavior Analysis	Line crossing detection, intrusion detection			
	Face Detection	Yes			
19.	Region of Interest	1 fixed region for main stream and sub-stream			
20.	Max. Resolution	1920*1080			
21.	Back Light Compensation	Yes			
22.	Dynamic Noise Reduction	3D			
23.	Image Setting	Rotate mode, saturation, brightness, contrast, sharpness adjustable by client software or web browser			
24.	Day/Night Switch	Auto, scheduled			
25.	Network Storage	Support Micro SD/SDHC/SDXC card (128G), local storage and NAS (NFS,SMB/CIFS)			
26.	Automatic Network Replenishment	After recovery of the network, the NVR automatically retrieves the video data stored on the camera.			
27.	Alarm Trigger	Motion detection, video tampering, network disconnected, IP address conflict, illegal login, HDD full, HDD error			
28.	Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, NTP, UPnP™, SMTP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour			
29.	General Function	One-key reset, anti-flicker, heartbeat, mirror, password protection, privacy mask, watermark			

30.	User/Host	Up to 32 users 3 levels: Administrator, Operator and User				
	Alarm	1 input, 1output				
31.	Communication Interface	1 RJ45 10M/100M self-adaptive Ethernet port				
32.	Reset Button	Yes				
	Environment Noise Filtering	Yes				
33.	Operating Conditions	(-)30 °C to +60 °C (-)22 °F to +140 °F), Humidity 95% or less (non-condensing)				
	Material	Metalic,IK10				
34.	Power Supply	12 VDC ± 25%, PoE (802.3at, class 4)				
35.	Protection Level	IP67, TVS 2000V lightning protection, surge protection and voltage transient protection				
(2) 32CH NVR						
S. No.	Features	Description	Qty.	Brand	Unit Price	Estimated Cost (In Rs.)
1.	Make	HIKVISION	1			
2.	Model					
3.	Power Supply	100 ~ 240 V AC, 6.3 A, 50 ~ 60 Hz				
4.	Consumption	≤ 30 W (without HDD)				
5.	Operating System	DUAL OS Linux Based				
VIDEO/AUDIO INPUT						
6.	Video Input	Up to 32-ch IP video input, and 320Mbps incoming bandwidth				
7.	Audio input	1-ch voice talk input, RCA (2.0 Vp-p, 1kohm)				
VIDEO/AUDIO OUTPUT						
8.	Recording resolution	12MP/ 8MP/ 6MP/ 5MP / 4MP/ 3MP /1080P /UXGA /720P /VGA /4CIF /DCIF /2CIF /CIF /QCIF				
9.	4k HDMI output	2 HDMI, resolution: HDMI1:3840×2160@60Hz, 3840×2160@30Hz, 2560×1440@60Hz, 1920×1080P@60Hz, 1600×1200@60 Hz, 1280×1024@60 Hz, 1280×720@60 Hz, 1024×768@60Hz HDMI2: 1920×1080P@60Hz, 1280×1024@60 Hz, 1280×720@60 Hz, 1024×768@60Hz				

10.	VGA output	2 VGA, resolution: VGA1: 2560×1440@60Hz, 1920×1080P@60Hz, 1600×1200@60 Hz, 1280×1024@60 Hz, 1280× 720@60 Hz, 1024×768@60Hz VGA2: 1920×1080P@60Hz, 1280×1024@60 Hz, 1280× 720@60 Hz, 1024×768@60Hz				
11.	Playback Resolution	12MP/ 8MP/ 6MP/ 5MP / 4MP/ 3MP /1080P /UXGA /720P /VGA /4CIF /DCIF /2CIF /CIF /QCIF				
	COMPRESSION	H.265+ ,H.265				
12.	Audio output	2-ch, RCA (2.0 Vp-p, 1kohm)				
13.	Dual stream	Support				
14.	Synchronous playback	16-ch 1080P				
	STORAGE					
15.	SATA	8 SATA interfaces				
16.	eSATA	1 eSATA interface				
17.	Capacity	Up to 10TB capacity for each HDD				
	Raid technology	HDD hot swap with RAID0, RAID1, RAID5, RAID6 and RAID10 storage configurable				
	EXTERNAL INTERFACE					
18.	Network Interface	2x 10M, 100M, 1000M self-adaptive Ethernet interface, dual IP, network redundancy				
19.	Network bandwidth	Up to 320Mbps input, 256Mbps output, up to 128 output network streams for remote connection				
20.	Serial Interfaces	1 RS-232, 1 RS-485 for keyboard, and 1 extra RS-485 reserved				
21.	USB interface	2 x USB 2.0, 1 x USB 3.0				
22.	Alarm Input	16				
23.	Alarm Output	4				
	PHYSICAL SPECIFICATIONS					
26.	Chassis	19" rack-mountable 2U chassis				
	ENVIRONMENTAL					
27.	Working Temperature	(-)10 °C ~ +55 °C (14 °F ~ 131 °F)				
28.	Working Humidity	10% ~ 90%				
S. No.	Item description	Model	Qty.	Brand	Unit Price	Estimated Cost (In Rs.)
3.	24 port Managed PoE Switch	D-Link	4			
4.	6 HDD	Seagate/WDR	2			

5.	9U Wallmount Rack with all assoseries	D-Link	1			
6.	Patch cord 1 mtr. Length	D-Link	16			
7.	Rj-45 Connector	D-Link	1			
8.	LED 4K Professional Display (55")	LG	1			
9.	Desktop PC, Core i5 4 GB RAM, 1TB HD with original window	HP	1			
10.	2 KVA Online UPS for 1 hr. power back up	Emerson/Libert	1			
11.	Power supply board	Branded	2			
12.	CAT 6 UTP cable	D-Link/Tyco	2			

C. Quotation for Supply, Installation & Commissioning of CCTV Surveillance System in the Court Complex at Soro, Balasore:

(1) 2MP WDR Vari-focal Network Dome Camera						
S. No.	Features	Description	Qty.	Brand	Unit Price	Estimated Cost (In Rs.)
1.	Make	HIKVISION	23			
2.	Model					
3.	Camera Type	Varifocal Dome				
4.	Standard	ONVIF (PROFILE S, PROFILE G), ISAPI				
5.	Certification	UL, CE ,FCC				
6.	Image Sensor	1/2.8" Progressive Scan CMOS				
7.	Min. Illumination	Color: 0.01 Lux or better				
8.	Shutter Speed	1/3s to 1/100,000s				
9.	Day & Night	IR Cut Filter				
10.	WDR	yes				
11.	Angle Adjustment	Pan: 0° to 355°, tilt: 0° to 75°, rotation: 0° to 355°				
12.	Focal length	2.8 to 12 mm				
13.	Aperture	F1.6				
14.	FOV	Horizontal field of view: 105° to 34.5° Vertical field of view: 55° to 19° Diagonal field of view: 125° to 40°				
15.	Lens Mount	Φ14				

16.	IR Range	Upto 30 m			
17.	Video Compression	H.265+,H.265.			
18.	Video Bit Rate	32 Kbps to 16 Mbps			
	Audio Compression	G.711/G.722.1/G.726/MP2L2/PCM			
	Behavior Analysis	Line crossing detection, intrusion detection			
	Face Detection	Yes			
19.	Region of Interest	1 fixed region for main stream and sub-stream			
20.	Max. Resolution	1920*1080			
21.	Back Light Compensation	Yes			
22.	Dynamic Noise Reduction	3D			
23.	Image Setting	Rotate mode, saturation, brightness, contrast, sharpness adjustable by client software or web browser			
24.	Day/Night Switch	Auto, scheduled			
25.	Network Storage	Support Micro SD/SDHC/SDXC card (128G), local storage and NAS (NFS,SMB/CIFS)			
26.	Automatic Network Replenishment	After recovery of the network, the NVR automatically retrieves the video data stored on the camera.			
27.	Alarm Trigger	Motion detection, video tampering, network disconnected, IP address conflict, illegal login, HDD full, HDD error			
28.	Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, NTP, UPnP™, SMTP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour			
29.	General Function	One-key reset, anti-flicker, heartbeat, mirror, password protection, privacy mask, watermark			
30.	User/Host	Up to 32 users 3 levels: Administrator, Operator and User			
	Alarm	1 input, 1output			
31.	Communication Interface	1 RJ45 10M/100M self-adaptive Ethernet port			
32.	Reset Button	Yes			
	Environment Noise Filtering	Yes			
33.	Operating Conditions	(-)30 °C to +60 °C (-)22 °F to +140 °F), Humidity 95% or less (non-condensing)			

	Material	Metalic,IK10				
34.	Power Supply	12 VDC \pm 25%, PoE (802.3at, class 4)				
35.	Protection Level	IP67, TVS 2000V lightning protection, surge protection and voltage transient protection				
(2) 2MP WDR Vari-focal Network Bullet Camera						
S. No.	Features	Description	Qty.	Brand	Unit Price	Estimated Cost (In Rs.)
1.	Make	HIKVISION	12			
2.	Model					
3.	Camera Type	Varifocal Bullet				
4.	Standard	ONVIF (PROFILE S, PROFILE G), ISAPI				
5.	Certification	UL, CE ,FCC				
6.	Image Sensor	1/2.8" Progressive Scan CMOS				
7.	Min. Illumination	Color: 0.01 Lux or better				
8.	Shutter Speed	1/3s to 1/100,000s				
9.	Day & Night	IR Cut Filter				
10.	WDR	YES				
11.	Angle Adjustment	Pan: 0° to 355°, tilt: 0° to 90°, rotation: 0° to 355°				
12.	Focal length	2.8 to 12 mm				
15.	Lens Mount	Φ 14				
16.	IR Range	Upto 30 m				
17.	Video Compression	H.265+,H.265				
18.	Video Bit Rate	32 Kbps to 16 Mbps				
	Audio Compression	G.711/G.722.1/G.726/MP2L2/PCM				
	Behavior Analysis	Line crossing detection, intrusion detection				
	Face Detection	Yes				
19.	Region of Interest	1 fixed region for main stream and sub-stream				
20.	Max. Resolution	1920*1080P				
21.	Back Light Compensation	Yes				
22.	Dynamic Noise Reduction	3D				
23.	Image Setting	Rotate mode, saturation, brightness, contrast, sharpnessadjustable by client software or web browser				
24.	Day/Night Switch	Auto, scheduled				
25.	Network Storage	Support Micro SD/SDHC/SDXC card (128G),				

		local storage and NAS (NFS,SMB/CIFS)				
26.	Automatic Network Replenishment	After recovery of the network, the NVR automatically retrieves the video data stored on the camera.				
27.	Alarm Trigger	Motion detection, video tampering, network disconnected, IP address conflict, illegal login, HDD full, HDD error				
28.	Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, NTP, UPnP™, SMTP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour				
29.	General Function	One-key reset, anti-flicker, heartbeat, mirror, password protection, privacy mask, watermark				
30.	User/Host	Up to 32 users 3 levels: Administrator, Operator and User				
	Alarm	1 input, 1output				
31.	Communication Interface	1 RJ45 10M/100M self-adaptive Ethernet port				
32.	Reset Button	Yes				
33.	Environment Noise Filtering	Yes				
34.	Operating Conditions	(-)30 °C to +60 °C (-)22 °F to +140 °F), Humidity 95% or less (non-condensing)				
35.	Power Supply	12 VDC ± 25%, PoE (802.3at, class 4) TVS 2000V lightning protection, surge protection and voltage transient protection				
36.	Material	metallic				
37.	Protection Level	IP67,				
(3) 64CH NVR						
S. No.	Features	Description	Qty.	Brand	Unit Price	Estimated Cost (In Rs.)
1.	Make	HIKVISION	1			
2.	Model					
3.	Power Supply	100 ~ 240 V AC, 6.3 A, 50 ~ 60 Hz				
4.	Consumption	≤ 30 W (without HDD)				
5.	Operating System	Linux				
VIDEO/AUDIO INPUT						
6.	Video Input	Up to 64-ch IP video input, and 320Mbps incoming bandwidth				
7.	Audio input	1-ch voice talk input, RCA (2.0 Vp-p, 1kohm)				

VIDEO/AUDIO OUTPUT				
8.	Recording resolution	12MP/ 8MP/ 6MP/ 5MP / 4MP/ 3MP /1080P /UXGA /720P /VGA /4CIF /DCIF /2CIF /CIF /QCIF		
9.	4k HDMI output	2 HDMI, resolution: HDMI1:3840×2160@60Hz, 3840×2160@30Hz, 2560×1440@60Hz, 1920×1080P@60Hz, 1600×1200@60 Hz, 1280×1024@60 Hz, 1280× 720@60 Hz, 1024×768@60Hz HDMI2: 1920×1080P@60Hz, 1280×1024@60 Hz, 1280× 720@60 Hz, 1024×768@60Hz		
10.	VGA output	2 VGA, resolution: VGA1: 2560×1440@60Hz, 1920×1080P@60Hz, 1600×1200@60 Hz, 1280×1024@60 Hz, 1280× 720@60 Hz, 1024×768@60Hz VGA2: 1920×1080P@60Hz, 1280×1024@60 Hz, 1280× 720@60 Hz, 1024×768@60Hz		
11.	Playback Resolution	12MP/ 8MP/ 6MP/ 5MP / 4MP/ 3MP /1080P /UXGA /720P /VGA /4CIF /DCIF /2CIF /CIF /QCIF		
	compression	H.265+,H.265		
12.	Audio output	2-ch, RCA (2.0 Vp-p, 1kohm)		
13.	Dual stream	Support		
14.	Synchronous playback	16-ch 1080P		
	STORAGE			
15.	SATA	8 SATA interfaces		
16.	eSATA	1 eSATA interface		
17.	Capacity	Up to 10TB capacity for each HDD		
	RAID TECHNOLOGY	HDD hot swap with RAID0, RAID1, RAID5, RAID6 and RAID10 storage configurable		
	EXTERNAL INTERFACE			
18.	Network Interface	2x 10M, 100M, 1000M self- adaptive Ethernet interface, dual IP, network redundancy		
19.	Network bandwidth	Up to 320Mbps input, 256Mbps output, up to 128 output network streams for remote connection		
20.	Serial Interfaces	1 RS-232, 1 RS-485 for keyboard, and 1 extra RS-485 reserved		

21.	USB interface	2 x USB 2.0, 1 x USB 3.0				
22.	Alarm Input	16				
23.	Alarm Output	4				
26.	Chassis	19" rack-mountable 2U chassis				
	ENVIRONMENTAL					
27.	Working Temperature	(-)10 °C ~ +55 °C (14 °F ~ 131 °F)				
28.	Working Humidity	10% ~ 90%				
S. No.	Item description	Model	Qty.	Brand	Unit Price	Estimated Cost (In Rs.)
4.	24 port Managed PoE Switch	D-Link	3			
5.	6 HDD	Seagate/WDR	5			
6.	9U Wallmount Rack with all assoseries	D-Link	1			
7.	6U Wallmount Rack with all assoseries	D-Link	2			
8.	Patch cord 1 mtr. Length	D-Link	40			
9.	Rj-45 Connector	D-Link	1			
10.	LED 4K Professional Display (55")	LG	1			
11.	Desktop PC, Core i5 4 GB RAM, 1TB HD with original window	HP	1			
12.	2 KVA Online UPS for 1 hr. power back up	Emerson/Libert	1			
13.	Power supply board	Branded	4			
14.	CAT 6 UTP cable	D-Link/Tyco	4			

D. Quotation for Supply, Installation & Commissioning of CCTV Surveillance System in the Court Complex at Nilagiri, Balasore:

(1) 2MP WDR Vari-focal Network Dome Camera						
S. No.	Features	Description	Qty.	Brand	Unit Price	Estimated Cost (In Rs.)
1.	Make	HIKVISION	20			
2.	Model					
3.	Camera Type	Varifocal Dome				
4.	Standard	ONVIF (PROFILE S, PROFILE G), ISAPI				

5.	Certification	UL, CE ,FCC			
6.	Image Sensor	1/2.8" Progressive Scan CMOS			
7.	Min. Illumination	Color: 0.01 Lux or better			
8.	Shutter Speed	1/3s to 1/100,000s			
9.	Day & Night	IR Cut Filter			
10.	WDR	yes			
11.	Angle Adjustment	Pan: 0° to 355°, tilt: 0° to 75°, rotation: 0° to 355°			
12.	Focal length	2.8 to 12 mm			
13.	Aperture	F1.6			
14.	FOV	Horizontal field of view: 105° to 34.5° Vertical field of view: 55° to 19° Diagonal field of view: 125° to 40°			
15.	Lens Mount	Φ14			
16.	IR Range	Upto 30 m			
17.	Video Compression	H.265+,H.265.			
18.	Video Bit Rate	32 Kbps to 16 Mbps			
	Audio Compression	G.711/G.722.1/G.726/MP2L2/PCM			
	Behavior Analysis	Line crossing detection, intrusion detection			
	Face Detection	Yes			
19.	Region of Interest	1 fixed region for main stream and sub-stream			
20.	Max. Resolution	1920*1080			
21.	Back Light Compensation	Yes			
22.	Dynamic Noise Reduction	3D			
23.	Image Setting	Rotate mode, saturation, brightness, contrast, sharpnessadjustable by client software or web browser			
24.	Day/Night Switch	Auto, scheduled			
25.	Network Storage	Support Micro SD/SDHC/SDXC card (128G), local storage and NAS (NFS,SMB/CIFS)			
26.	Automatic Network Replenishment	After recovery of the network, the NVR automatically retrieves the video data stored on the camera.			
27.	Alarm Trigger	Motion detection, video tampering, network disconnected, IP address conflict, illegal login, HDD full, HDD error			

28.	Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, NTP, UPnP™, SMTP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour				
29.	General Function	One-key reset, anti-flicker, heartbeat, mirror, password protection, privacy mask, watermark				
30.	User/Host	Up to 32 users 3 levels: Administrator, Operator and User				
	Alarm	1 input, 1output				
31.	Communication Interface	1 RJ45 10M/100M self-adaptive Ethernet port				
32.	Reset Button	Yes				
	Environment Noise Filtering	Yes				
33.	Operating Conditions	(-)30 °C to +60 °C (-)22 °F to +140 °F), Humidity 95% or less (non-condensing)				
	Material	Metalic,IK10				
34.	Power Supply	12 VDC ± 25%, PoE (802.3at, class 4)				
35.	Protection Level	IP67, TVS 2000V lightning protection, surge protection and voltage transient protection				
(2) 2MP WDR Vari-focal Network Bullet Camera						
S. No.	Features	Description	Qty.	Brand	Unit Price	Estimated Cost (In Rs.)
1.	Make	HIKVISION	12			
2.	Model					
3.	Camera Type	Varifocal Bullet				
4.	Standard	ONVIF (PROFILE S, PROFILE G), ISAPI				
5.	Certification	UL, CE ,FCC				
6.	Image Sensor	1/2.8" Progressive Scan CMOS				
7.	Min. Illumination	Color: 0.01 Lux or better				
8.	Shutter Speed	1/3s to 1/100,000s				
9.	Day & Night	IR Cut Filter				
10.	WDR	YES				
11.	Angle Adjustment	Pan: 0° to 355°, tilt: 0° to 90°, rotation: 0° to 355°				
12.	Focal length	2.8 to 12 mm				
15.	Lens Mount	Φ14				
16.	IR Range	Upto 30 m				
17.	Video Compression	H.265+,H.265				
18.	Video Bit Rate	32 Kbps to 16 Mbps				

	Audio Compression	G.711/G.722.1/G.726/MP2L2/PCM			
	Behavior Analysis	Line crossing detection, intrusion detection			
	Face Detection	Yes			
19.	Region of Interest	1 fixed region for main stream and sub-stream			
20.	Max. Resolution	1920*1080P			
21.	Back Light Compensation	Yes			
22.	Dynamic Noise Reduction	3D			
23.	Image Setting	Rotate mode, saturation, brightness, contrast, sharpness adjustable by client software or web browser			
24.	Day/Night Switch	Auto, scheduled			
25.	Network Storage	Support Micro SD/SDHC/SDXC card (128G), local storage and NAS (NFS,SMB/CIFS)			
26.	Automatic Network Replenishment	After recovery of the network, the NVR automatically retrieves the video data stored on the camera.			
27.	Alarm Trigger	Motion detection, video tampering, network disconnected, IP address conflict, illegal login, HDD full, HDD error			
28.	Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, NTP, UPnP™, SMTP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour			
29.	General Function	One-key reset, anti-flicker, heartbeat, mirror, password protection, privacy mask, watermark			
30.	User/Host	Up to 32 users 3 levels: Administrator, Operator and User			
	Alarm	1 input, 1output			
31.	Communication Interface	1 RJ45 10M/100M self-adaptive Ethernet port			
32.	Reset Button	Yes			
33.	Environment Noise Filtering	Yes			
34.	Operating Conditions	(-)30 °C to +60 °C (-)22 °F to +140 °F), Humidity 95% or less (non-condensing)			

35.	Power Supply	12 VDC \pm 25%, PoE (802.3at, class 4) TVS 2000V lightning protection, surge protection and voltage transient protection				
36.	Material	metallic				
37.	Protection Level	IP67,				
(3) 64CH NVR						
S. No.	Features	Description	Qty.	Brand	Unit Price	Estimated Cost (In Rs.)
1.	Make	HIKVISION	1			
2.	Model					
3.	Power Supply	100 ~ 240 V AC, 6.3 A, 50 ~ 60 Hz				
4.	Consumption	\leq 30 W (without HDD)				
5.	Operating System	Linux				
VIDEO/AUDIO INPUT						
6.	Video Input	Up to 64-ch IP video input, and 320Mbps incoming bandwidth				
7.	Audio input	1-ch voice talk input, RCA (2.0 Vp-p, 1kohm)				
VIDEO/AUDIO OUTPUT						
8.	Recording resolution	12MP/ 8MP/ 6MP/ 5MP / 4MP/ 3MP /1080P /UXGA /720P /VGA /4CIF /DCIF /2CIF /CIF /QCIF				
9.	4k HDMI output	2 HDMI, resolution: HDMI1:3840 \times 2160@60Hz, 3840 \times 2160@30Hz, 2560 \times 1440@60Hz, 1920 \times 1080P@60Hz, 1600 \times 1200@60 Hz, 1280 \times 1024@60 Hz, 1280 \times 720@60 Hz, 1024 \times 768@60Hz HDMI2: 1920 \times 1080P@60Hz, 1280 \times 1024@60 Hz, 1280 \times 720@60 Hz, 1024 \times 768@60Hz				
10.	VGA output	2 VGA, resolution: VGA1: 2560 \times 1440@60Hz, 1920 \times 1080P@60Hz, 1600 \times 1200@60 Hz, 1280 \times 1024@60 Hz, 1280 \times 720@60 Hz, 1024 \times 768@60Hz VGA2: 1920 \times 1080P@60Hz, 1280 \times 1024@60 Hz, 1280 \times 720@60 Hz, 1024 \times 768@60Hz				
11.	Playback Resolution	12MP/ 8MP/ 6MP/ 5MP / 4MP/ 3MP /1080P /UXGA /720P /VGA /4CIF /DCIF /2CIF /CIF /QCIF				
	compression	H.265+,H.265				

12.	Audio output	2-ch, RCA (2.0 Vp-p, 1kohm)				
13.	Dual stream	Support				
14.	Synchronous playback	16-ch 1080P				
	STORAGE					
15.	SATA	8 SATA interfaces				
16.	eSATA	1 eSATA interface				
17.	Capacity	Up to 10TB capacity for each HDD				
	RAID TECHNOLOGY	HDD hot swap with RAID0, RAID1, RAID5, RAID6 and RAID10 storage configurable				
	EXTERNAL INTERFACE					
18.	Network Interface	2x 10M, 100M, 1000M self-adaptive Ethernet interface, dual IP, network redundancy				
19.	Network bandwidth	Up to 320Mbps input, 256Mbps output, up to 128 output network streams for remote connection				
20.	Serial Interfaces	1 RS-232, 1 RS-485 for keyboard, and 1 extra RS-485 reserved				
21.	USB interface	2 x USB 2.0, 1 x USB 3.0				
22.	Alarm Input	16				
23.	Alarm Output	4				
26.	Chassis	19" rack-mountable 2U chassis				
	ENVIRONMENTAL					
27.	Working Temperature	(-)10 °C ~ +55 °C (14 °F ~ 131 °F)				
28.	Working Humidity	10% ~ 90%				
S. No.	Item description	Model	Qty.	Brand	Unit Price	Estimated Cost (In Rs.)
4.	24 port Managed PoE Switch	D-Link	3			
5.	6 HDD	Seagate/WDR	5			
6.	9U Wallmount Rack with all assoseries	D-Link	1			
7.	6U Wallmount Rack with all assoseries	D-Link	1			
8.	Patch cord 1 mtr. Length	D-Link	40			
9.	Rj-45 Connector	D-Link	1			
10.	LED 4K Professional Display (55")	LG	1			
11.	Desktop PC, Core i5 4 GB RAM, 1TB HD with original window	HP	1			

12.	2 KVA Online UPS for 1 hr. power back up	Emerson/Libert	1			
13.	Power supply board	Branded	2			
14.	CAT 6 UTP cable	D-Link/Tyco	5			

E. Quotation for Supply, Installation & Commissioning of CCTV Surveillance System in the Court Complex at Jaleswar, Balasore:

(1) 2MP WDR Vari-focal Network Dome Camera						
S. No.	Features	Description	Qty.	Brand	Unit Price	Estimated Cost (In Rs.)
1.	Make	HIKVISION	12			
2.	Model					
3.	Camera Type	Varifocal Dome				
4.	Standard	ONVIF (PROFILE S, PROFILE G), ISAPI				
5.	Certification	UL, CE ,FCC				
6.	Image Sensor	1/2.8" Progressive Scan CMOS				
7.	Min. Illumination	Color: 0.01 Lux or better				
8.	Shutter Speed	1/3s to 1/100,000s				
9.	Day & Night	IR Cut Filter				
10.	WDR	yes				
11.	Angle Adjustment	Pan: 0° to 355°, tilt: 0° to 75°, rotation: 0° to 355°				
12.	Focal length	2.8 to 12 mm				
13.	Aperture	F1.6				
14.	FOV	Horizontal field of view: 105° to 34.5° Vertical field of view: 55° to 19° Diagonal field of view: 125° to 40°				
15.	Lens Mount	Φ14				
16.	IR Range	Upto 30 m				
17.	Video Compression	H.265+,H.265.				
18.	Video Bit Rate	32 Kbps to 16 Mbps				
	Audio Compression	G.711/G.722.1/G.726/MP2L2/PCM				
	Behavior Analysis	Line crossing detection, intrusion detection				
	Face Detection	Yes				
19.	Region of Interest	1 fixed region for main stream and sub-stream				
20.	Max. Resolution	1920*1080				
21.	Back Light Compensation	Yes				

22.	Dynamic Noise Reduction	3D				
23.	Image Setting	Rotate mode, saturation, brightness, contrast, sharpness adjustable by client software or web browser				
24.	Day/Night Switch	Auto, scheduled				
25.	Network Storage	Support Micro SD/SDHC/SDXC card (128G), local storage and NAS (NFS,SMB/CIFS)				
26.	Automatic Network Replenishment	After recovery of the network, the NVR automatically retrieves the video data stored on the camera.				
27.	Alarm Trigger	Motion detection, video tampering, network disconnected, IP address conflict, illegal login, HDD full, HDD error				
28.	Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, NTP, UPnP™, SMTP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour				
29.	General Function	One-key reset, anti-flicker, heartbeat, mirror, password protection, privacy mask, watermark				
30.	User/Host	Up to 32 users 3 levels: Administrator, Operator and User				
	Alarm	1 input, 1output				
31.	Communication Interface	1 RJ45 10M/100M self-adaptive Ethernet port				
32.	Reset Button	Yes				
	Environment Noise Filtering	Yes				
33.	Operating Conditions	(-)30 °C to +60 °C (-)22 °F to +140 °F), Humidity 95% or less (non-condensing)				
	Material	Metalic,IK10				
34.	Power Supply	12 VDC ± 25%, PoE (802.3at, class 4)				
35.	Protection Level	IP67, TVS 2000V lightning protection, surge protection and voltage transient protection				
(2) 2MP WDR Vari-focal Network Bullet Camera						
S. No.	Features	Description	Qty.	Brand	Unit Price	Estimated Cost (In Rs.)
1.	Make	HIKVISION	12			
2.	Model					

3.	Camera Type	Varifocal Bullet			
4.	Standard	ONVIF (PROFILE S, PROFILE G), ISAPI			
5.	Certification	UL, CE ,FCC			
6.	Image Sensor	1/2.8" Progressive Scan CMOS			
7.	Min. Illumination	Color: 0.01 Lux or better			
8.	Shutter Speed	1/3s to 1/100,000s			
9.	Day & Night	IR Cut Filter			
10.	WDR	YES			
11.	Angle Adjustment	Pan: 0° to 355°, tilt: 0° to 90°, rotation: 0° to 355°			
12.	Focal length	2.8 to 12 mm			
15.	Lens Mount	Φ14			
16.	IR Range	Upto 30 m			
17.	Video Compression	H.265+,H.265			
18.	Video Bit Rate	32 Kbps to 16 Mbps			
	Audio Compression	G.711/G.722.1/G.726/MP2L2/PCM			
	Behavior Analysis	Line crossing detection, intrusion detection			
	Face Detection	Yes			
19.	Region of Interest	1 fixed region for main stream and sub-stream			
20.	Max. Resolution	1920*1080P			
21.	Back Light Compensation	Yes			
22.	Dynamic Noise Reduction	3D			
23.	Image Setting	Rotate mode, saturation, brightness, contrast, sharpnessadjustable by client software or web browser			
24.	Day/Night Switch	Auto, scheduled			
25.	Network Storage	Support Micro SD/SDHC/SDXC card (128G), local storage and NAS (NFS,SMB/CIFS)			
26.	Automatic Network Replenishment	After recovery of the network, the NVR automatically retrieves the video data stored on the camera.			
27.	Alarm Trigger	Motion detection, video tampering, network disconnected, IP address conflict, illegal login, HDD full, HDD error			
28.	Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, NTP, UPnP™, SMTP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour			

29.	General Function	One-key reset, anti-flicker, heartbeat, mirror, password protection, privacy mask, watermark				
30.	User/Host	Up to 32 users 3 levels: Administrator, Operator and User				
	Alarm	1 input, 1output				
31.	Communication Interface	1 RJ45 10M/100M self-adaptive Ethernet port				
32.	Reset Button	Yes				
33.	Environment Noise Filtering	Yes				
34.	Operating Conditions	(-)30 °C to +60 °C (-)22 °F to +140 °F), Humidity 95% or less (non-condensing)				
35.	Power Supply	12 VDC ± 25%, PoE (802.3at, class 4) TVS 2000V lightning protection, surge protection and voltage transient protection				
36.	Material	metallic				
37.	Protection Level	IP67,				
(3) 64CH NVR						
S. No.	Features	Description	Qty.	Brand	Unit Price	Estimated Cost (In Rs.)
1.	Make	HIKVISION	1			
2.	Model					
3.	Power Supply	100 ~ 240 V AC, 6.3 A, 50 ~ 60 Hz				
4.	Consumption	≤ 30 W (without HDD)				
5.	Operating System	Linux				
VIDEO/AUDIO INPUT						
6.	Video Input	Up to 64-ch IP video input, and 320Mbps incoming bandwidth				
7.	Audio input	1-ch voice talk input, RCA (2.0 Vp-p, 1kohm)				
VIDEO/AUDIO OUTPUT						
8.	Recording resolution	12MP/ 8MP/ 6MP/ 5MP / 4MP/ 3MP /1080P /UXGA /720P /VGA /4CIF /DCIF /2CIF /CIF /QCIF				
9.	4k HDMI output	2 HDMI, resolution: HDMI1:3840×2160@60Hz, 3840×2160@30Hz, 2560×1440@60Hz, 1920×1080P@60Hz, 1600×1200@60 Hz, 1280×1024@60 Hz, 1280× 720@60 Hz, 1024×768@60Hz HDMI2: 1920×1080P@60Hz,				

		1280×1024@60 Hz, 1280×720@60 Hz, 1024×768@60Hz			
10.	VGA output	2 VGA, resolution: VGA1: 2560×1440@60Hz, 1920×1080P@60Hz, 1600×1200@60 Hz, 1280×1024@60 Hz, 1280×720@60 Hz, 1024×768@60Hz VGA2: 1920×1080P@60Hz, 1280×1024@60 Hz, 1280×720@60 Hz, 1024×768@60Hz			
11.	Playback Resolution	12MP/ 8MP/ 6MP/ 5MP / 4MP/ 3MP /1080P /UXGA /720P /VGA /4CIF /DCIF /2CIF /CIF /QCIF			
	compression	H.265+,H.265			
12.	Audio output	2-ch, RCA (2.0 Vp-p, 1kohm)			
13.	Dual stream	Support			
14.	Synchronous playback	16-ch 1080P			
	STORAGE				
15.	SATA	8 SATA interfaces			
16.	eSATA	1 eSATA interface			
17.	Capacity	Up to 10TB capacity for each HDD			
	RAID TECHNOLOGY	HDD hot swap with RAID0, RAID1, RAID5, RAID6 and RAID10 storage configurable			
	EXTERNAL INTERFACE				
18.	Network Interface	2x 10M, 100M, 1000M self-adaptive Ethernet interface, dual IP, network redundancy			
19.	Network bandwidth	Up to 320Mbps input, 256Mbps output, up to 128 output network streams for remote connection			
20.	Serial Interfaces	1 RS-232, 1 RS-485 for keyboard, and 1 extra RS-485 reserved			
21.	USB interface	2 x USB 2.0, 1 x USB 3.0			
22.	Alarm Input	16			
23.	Alarm Output	4			
26.	Chassis	19" rack-mountable 2U chassis			
	ENVIRONMENTAL				
27.	Working Temperature	(-)10 °C ~ +55 °C (14 °F ~ 131 °F)			
28.	Working Humidity	10% ~ 90%			

S. No.	Item description	Model	Qty.	Brand	Unit Price	Estimated Cost (In Rs.)
4.	24 port Managed PoE Switch	D-Link	2			
5.	6 HDD	Seagate/WDR	5			
6.	9U Wallmount Rack with all accessories	D-Link	1			
7.	6U Wallmount Rack with all accessories	D-Link	1			
8.	Patch cord 1 mtr. Length	D-Link	30			
9.	Rj-45 Connector	D-Link	1			
10.	LED 4K Professional Display (55")	LG	1			
11.	Desktop PC, Core i5 4 GB RAM, 1TB HD with original window	HP	1			
12.	2 KVA Online UPS for 1 hr. power back up	Emerson/Libert	1			
13.	Power supply board	Branded	2			
14.	CAT 6 UTP cable	D-Link/Tyco	4			

F. Quotation for Supply, Installation & Commissioning of CCTV Surveillance System in the Court Complex at Bhograi, Balasore:

(1) 2MP WDR Vari-focal Network Dome Camera						
S. No.	Features	Description	Qty.	Brand	Unit Price	Estimated Cost (In Rs.)
1.	Make	HIKVISION	4			
2.	Model					
3.	Camera Type	Varifocal Dome				
4.	Standard	ONVIF (PROFILE S, PROFILE G), ISAPI				
5.	Certification	UL, CE ,FCC				
6.	Image Sensor	1/2.8" Progressive Scan CMOS				
7.	Min. Illumination	Color: 0.01 Lux or better				
8.	Shutter Speed	1/3s to 1/100,000s				
9.	Day & Night	IR Cut Filter				

10.	WDR	yes			
11.	Angle Adjustment	Pan: 0° to 355°, tilt: 0° to 75°, rotation: 0° to 355°			
12.	Focal length	2.8 to 12 mm			
13.	Aperture	F1.6			
14.	FOV	Horizontal field of view: 105° to 34.5° Vertical field of view: 55° to 19° Diagonal field of view: 125° to 40°			
15.	Lens Mount	Φ14			
16.	IR Range	Upto 30 m			
17.	Video Compression	H.265+,H.265.			
18.	Video Bit Rate	32 Kbps to 16 Mbps			
	Audio Compression	G.711/G.722.1/G.726/MP2L2/PCM			
	Behavior Analysis	Line crossing detection, intrusion detection			
	Face Detection	Yes			
19.	Region of Interest	1 fixed region for main stream and sub-stream			
20.	Max. Resolution	1920*1080			
21.	Back Light Compensation	Yes			
22.	Dynamic Noise Reduction	3D			
23.	Image Setting	Rotate mode, saturation, brightness, contrast, sharpness adjustable by client software or web browser			
24.	Day/Night Switch	Auto, scheduled			
25.	Network Storage	Support Micro SD/SDHC/SDXC card (128G), local storage and NAS (NFS,SMB/CIFS)			
26.	Automatic Network Replenishment	After recovery of the network, the NVR automatically retrieves the video data stored on the camera.			
27.	Alarm Trigger	Motion detection, video tampering, network disconnected, IP address conflict, illegal login, HDD full, HDD error			
28.	Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, NTP, UPnP™, SMTP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour			
29.	General Function	One-key reset, anti-flicker, heartbeat, mirror, password protection, privacy mask, watermark			

30.	User/Host	Up to 32 users 3 levels: Administrator, Operator and User				
	Alarm	1 input, 1output				
31.	Communication Interface	1 RJ45 10M/100M self-adaptive Ethernet port				
32.	Reset Button	Yes				
	Environment Noise Filtering	Yes				
33.	Operating Conditions	(-)30 °C to +60 °C (-)22 °F to +140 °F), Humidity 95% or less (non-condensing)				
	Material	Metalic,IK10				
34.	Power Supply	12 VDC ± 25%, PoE (802.3at, class 4)				
35.	Protection Level	IP67, TVS 2000V lightning protection, surge protection and voltage transient protection				

(2) 2MP WDR Vari-focal Network Bullet Camera

S. No.	Features	Description	Qty.	Brand	Unit Price	Estimated Cost (In Rs.)
1.	Make	HIKVISION	6			
2.	Model					
3.	Camera Type	Varifocal Bullet				
4.	Standard	ONVIF (PROFILE S, PROFILE G), ISAPI				
5.	Certification	UL, CE ,FCC				
6.	Image Sensor	1/2.8" Progressive Scan CMOS				
7.	Min. Illumination	Color: 0.01 Lux or better				
8.	Shutter Speed	1/3s to 1/100,000s				
9.	Day & Night	IR Cut Filter				
10.	WDR	YES				
11.	Angle Adjustment	Pan: 0° to 355°, tilt: 0° to 90°, rotation: 0° to 355°				
12.	Focal length	2.8 to 12 mm				
15.	Lens Mount	Φ14				
16.	IR Range	Upto 30 m				
17.	Video Compression	H.265+,H.265				
18.	Video Bit Rate	32 Kbps to 16 Mbps				
	Audio Compression	G.711/G.722.1/G.726/MP2L2/PCM				
	Behavior Analysis	Line crossing detection, intrusion detection				
	Face Detection	Yes				
19.	Region of Interest	1 fixed region for main stream and sub-stream				

20.	Max. Resolution	1920*1080P			
21.	Back Light Compensation	Yes			
22.	Dynamic Noise Reduction	3D			
23.	Image Setting	Rotate mode, saturation, brightness, contrast, sharpness adjustable by client software or web browser			
24.	Day/Night Switch	Auto, scheduled			
25.	Network Storage	Support Micro SD/SDHC/SDXC card (128G), local storage and NAS (NFS,SMB/CIFS)			
26.	Automatic Network Replenishment	After recovery of the network, the NVR automatically retrieves the video data stored on the camera.			
27.	Alarm Trigger	Motion detection, video tampering, network disconnected, IP address conflict, illegal login, HDD full, HDD error			
28.	Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, NTP, UPnP™, SMTP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour			
29.	General Function	One-key reset, anti-flicker, heartbeat, mirror, password protection, privacy mask, watermark			
30.	User/Host	Up to 32 users 3 levels: Administrator, Operator and User			
	Alarm	1 input, 1output			
31.	Communication Interface	1 RJ45 10M/100M self-adaptive Ethernet port			
32.	Reset Button	Yes			
33.	Environment Noise Filtering	Yes			
34.	Operating Conditions	(-)30 °C to +60 °C (-)22 °F to +140 °F), Humidity 95% or less (non-condensing)			
35.	Power Supply	12 VDC ± 25%, PoE (802.3at, class 4) TVS 2000V lightning protection, surge protection and voltage transient protection			
36.	Material	metallic			
37.	Protection Level	IP67,			

(3) 32CH NVR						
S. No.	Features	Description	Qty.	Brand	Unit Price	Estimated Cost (In Rs.)
1.	Make	Hikvision	1			
2.	Model					
3.	Power Supply	100 ~ 240 V AC, 6.3 A, 50 ~ 60 Hz				
4.	Consumption	≤ 30 W (without HDD)				
5.	Operating System	DUAL OS Linux Based				
VIDEO/AUDIO INPUT						
6.	Video Input	Up to 32-ch IP video input, and 320Mbps incoming bandwidth				
7.	Audio input	1-ch voice talk input, RCA (2.0 Vp-p, 1kohm)				
VIDEO/AUDIO OUTPUT						
8.	Recording resolution	12MP/ 8MP/ 6MP/ 5MP / 4MP/ 3MP /1080P /UXGA /720P /VGA /4CIF /DCIF /2CIF /CIF /QCIF				
9.	4k HDMI output	2 HDMI, resolution: HDMI1:3840×2160@60Hz, 3840×2160@30Hz, 2560×1440@60Hz, 1920×1080P@60Hz, 1600×1200@60 Hz, 1280×1024@60 Hz, 1280×720@60 Hz, 1024×768@60Hz HDMI2: 1920×1080P@60Hz, 1280×1024@60 Hz, 1280×720@60 Hz, 1024×768@60Hz				
10.	VGA output	2 VGA, resolution: VGA1: 2560×1440@60Hz, 1920×1080P@60Hz, 1600×1200@60 Hz, 1280×1024@60 Hz, 1280×720@60 Hz, 1024×768@60Hz VGA2: 1920×1080P@60Hz, 1280×1024@60 Hz, 1280×720@60 Hz, 1024×768@60Hz				
11.	Playback Resolution	12MP/ 8MP/ 6MP/ 5MP / 4MP/ 3MP /1080P /UXGA /720P /VGA /4CIF /DCIF /2CIF /CIF /QCIF				
	COMPRESSION	H.265+ ,H.265				
12.	Audio output	2-ch, RCA (2.0 Vp-p, 1kohm)				
13.	Dual stream	Support				
14.	Synchronous playback	16-ch 1080P				
STORAGE						
15.	SATA	8 SATA interfaces				

16.	eSATA	1 eSATA interface				
17.	Capacity	Up to 10TB capacity for each HDD				
	Raid technology	HDD hot swap with RAID0, RAID1, RAID5, RAID6 and RAID10 storage configurable				
	EXTERNAL INTERFACE					
18.	Network Interface	2x 10M, 100M, 1000M self-adaptive Ethernet interface, dual IP, network redundancy				
19.	Network bandwidth	Up to 320Mbps input, 256Mbps output, up to 128 output network streams for remote connection				
20.	Serial Interfaces	1 RS-232, 1 RS-485 for keyboard, and 1 extra RS-485 reserved				
21.	USB interface	2 x USB 2.0, 1 x USB 3.0				
22.	Alarm Input	16				
23.	Alarm Output	4				
	PHYSICAL SPECIFICATIONS					
26.	Chassis	19" rack-mountable 2U chassis				
	ENVIRONMENTAL					
27.	Working Temperature	(-)10 °C ~ +55 °C (14 °F ~ 131 °F)				
28.	Working Humidity	10% ~ 90%				
S. No.	Item description	Model	Qty.	Brand	Unit Price	Estimated Cost (In Rs.)
4.	24 port Managed PoE Switch	D-Link	1			
5.	6 HDD	Seagate/WDR	3			
6.	9U Wallmount Rack with all accessories	D-Link	1			
8.	Patch cord 1 mtr. Length	D-Link	20			
9.	Rj-45 Connector	D-Link	1			
10.	LED 4K Professional Display (55")	LG	1			
11.	Desktop PC, Core i5 4 GB RAM, 1TB HD with original window	HP	1			
12.	2 KVA Online UPS for 1 hr. power back up	Emerson/Libert	1			
13.	Power supply board	Branded	2			
14.	CAT 6 UTP cable	D-Link/Tyco	2			

SERVICE ITEM					
Sl. No.	Description of work	Unit	Qty.	Unit Price	Total Price (Rs.)
1	Cable laying through good quality PVC Conduit pipe with accessories	Per Mtr.	1		
2	LED Fixing	Nos.	1		
3	Camera & NVR, switch installation testing and commissioning	Per Camera	1		
4	Rack Mounting	Nos.	1		
5	UPS Installation	Nos.	1		
6	Desktop installation	Nos.	1		
Total Price Excluding of Taxes					
Total Price Including of Taxes					

Date:

Name, Signature and Seal of the Bidder

Annexure-IV**On the Letterhead of the Vendor / Contractor / Supplier Details**

To

The District & Sessions Judge, Balasore
Civil Court premises,
At/PO/Dist.- Balasore-756001

Dear Sir,

We hereby give our consent to accept the related payment of our claims / bills on the District & Sessions Judge, Balasore through Cheques or Internet based online e-payment System at the sole discretion of the District & Sessions Judge, Balasore. Our Bank Account details for the said purpose are as under:

A. Vendor Details:	
1. Name (As per the Bank Records)	
2. Address	
3. PAN No.	
4. GST No.	
5. E-mail ID	
6. Mobile Number	
B. Particulars of Bank Account:	
1. Bank Name	
2. Branch Name / Branch Code	
3. Branch Address	
4. Account Number	
5. Account Type (Saving/Cash Credit/Current)	
6. MICR No. of the Branch	
7. IFSC Code of the Branch	

I/We hereby declare that particulars given above are correct and complete. If the transaction is delayed or not effected at all for reasons of incomplete or incorrect information, I/We would not hold the user Institution responsible.

Date:

Phone No:

Signature and Seal of Firm

- Encl:**
1. Photocopy of cheque duly cancelled.
 2. Copy of PAN Card.
 3. Copy of GST Registration Certificate.
 4. Copy of current valid Tax Clearance Certificate & Service Tax registration Certificate.
 5. Copy of I.T. Clearance Certificate for the assessment year, 2017-18

Annexure-V**(Undertaking from Bidders)**

To

The District & Sessions Judge, Balasore
Civil Court premises,
At/PO/Dist.- Balasore-756001

Dear Sir,

Nature of Goods / Equipment	CCTV Camera along with other accessories required for working of CCTV Surveillance System
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Having examined and perused the following documents:

1. Notice inviting Tender.
2. Instruction to the Bidder.
3. Commercial and General Terms and Conditions of the tender.
4. Technical Specifications of items (Annexure-I) for which tender is issued.
5. Financial Bid (Annexure-III).

I/We.....do hereby submit tender in prescribed formats for supply, installation, testing, commissioning of CCTV Cameras along with other accessories required for working of CCTV Surveillance System and storage of data to the District & Sessions Judge, Balasore, completed in all respects in accordance with the conditions applicable.

If this tender is accepted, I/We agree to abide by and fulfil all the terms and conditions in the tender documents.

I/We hereby distinctly and expressly declare and acknowledge that before the submission of this tender, I/We have carefully read and followed the instructions and I/We have understood the existing system of supply to the District & Sessions Judge, Balasore including the scope and nature of duties expected from the Bidder.

I/we hereby undertake and endorse the fact that the District & Sessions Judge, Balasore may in his discretion accept the Tender either as a whole or in part and in either case I/We shall be responsible to carry out the work accordingly within the stipulated time frame.

I/We distinctly agree that I/We would hereafter make no claim or demand upon the District & Sessions Judge, Balasore based upon or arising out of any alleged misunderstanding or misconceptions or mistake on my/our part of the said stipulations, restrictions and conditions.

Any notice required to be served on me/us shall be sufficiently served on me/us by post (registered/ordinary) or courier or left at my/our address furnished herein. I/We fully understand the terms and conditions in the tender documents.

Dated this day of 2019

Signature of the Bidder

Annexure-VI**TENDER COST & EARNEST MONEY DEPOSIT PAYMENT PARTICULARS**

Number of Demand Drafts Enclosed:

Demand Draft Particulars:

Sl. No.	Demand Draft/Bankers Cheque No.	Date of Issue	Name of the Bank/Branch and place	Amount

I/We,
 hereby declare that the particulars furnished by me/us in this offer are true to the best of my/our knowledge and I/We understand and accept that, if at any stage the information furnished by me/us are found to be incorrect or false, I/We am/are liable for disqualification from this tender and also liable for any penal action that may arise due to the above, besides being black listed.

Signature:

Name:

Designation:

Name of the Agency:

Address of the Bidder:

Phone No. & Mobile No.:

E-mail Address:

Website (if any):

Date:

Annexure-VII

Bank Guarantee Format for Performance Security

To

The Governor of Odisha

WHEREAS (name and address of the supplier) (herein after called “the supplier”) has undertaken, in pursuance of contract No..... dated..... to supply (description of goods and services) (herein after called “the contract”)

AND WHEREAS it has been stipulated by you in the said contract that the supplier shall furnish you with a bank guarantee by a scheduled commercial bank recognized by you for the sum specified therein as security for compliance with its obligations in accordance with the contract.

AND WHEREAS we have agreed to give the supplier such a bank guarantee;

NOW WHEREAS we hereby affirm that we are guarantors and responsible to you, on behalf of the supplier, up to a total of..... (amount of the guarantee in words and figures) and we undertake to pay you, upon the first written demand declaring the supplier to be in default under the contract and without cavil or argument, any sum or sums within the limits of (amount of guarantee) as aforesaid, without your needing to prove or to show ground or reasons for your demand or the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the supplier before presenting us with the demand.

We further agree that no change or addition to or other modification of the terms of the contract to be performed there under or of any of the contract documents which may be made between you and the supplier shall in any way release us from any liability under this guarantee and we hereby waive notice of any such change, addition or modification.

This guarantee shall be valid until the day of, 20.....

Our branch at *(Name & address of the* branch) is liable to pay the guarantee amount depending on the filling of claim and any part thereof under this Bank Guarantee only and only if you serve upon us at our*branch on or before dt..... otherwise bank shall be discharged of all liabilities under this guarantee thereafter.

(Signature of the authorized Officer of the Bank)

.....

Name and designation of the Officer

.....

.....

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

**Preferably at the headquarters of the authority competent to sanction the expenditure for purchase of goods or at the concerned district headquarters or the state headquarters.*

Annexure-VIII

(a) List of Govt. Organizations/Deptt. List of Government Organizations for whom the Bidder has undertaken such work during the last three years (must be supported with work orders)

Name of the organization	Name of the contact person	Contact No.

(a) Name of the application specialist/Service Engineer who have the technical competency to handle and support the quoted product during the warranty period.

Name of the organization	Name of the contact person	Contact No.

Dated:

Signature of the Bidder

Annexure-IX

DECLARATION

I/We having our office as mentioned below and declare that I/We have never been blacklisted by any State Government/ Central Government or any State/ Central / PSU.

Signature:

Name:

Designation:

Name of the Agency:

Address of the Bidder:

Date:

Place: