



BEML LIMITED

(A Government of India Mini Ratna Company under Ministry of Defence)

Regional office -35/1A, Taratala Road Kolkata – 700088

Phone : 033 24015287 FAX: 033 24015288.

TENDER No: 6300031036

Date: 01.01.2020

TENDER DOCUMENTS

**PROCUREMENT, INSTALLATION AND AMC OF “CCTV” CAMERA SYSTEMS FOR
REGIONAL OFFICE -35/1A, TARATALA ROAD KOLKATA – 700088**

**Regional Manager
RO Kolkata**

**BEML Limited,
Regional office -35/1A, Taratala Road Kolkata – 700088
Phone : 033 24015287 FAX: 033 24015288.**



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1. Introduction

General Information

BEML LTD is a leading public sector undertaking under the Ministry of Defence, Govt. of India for manufacturing a wide range of mining, earthmoving, railways and defence truck & equipment.

BEML LTD has manufacturing divisions in Bangalore, Mysore, KGF and Palakkad with Head Quarters at Bangalore.

2. Eligibility Criteria and Bid Submission Process

You are required to submit bid in three parts viz. **Pre-Qualification bid, Technical bid and Commercial bid**. BEML may at its sole discretion amend the bidding documents at any time prior to the deadline for submission of Bid. However in case of such amendment, the bid submission date may be extended at the discretion of BEML. Amendments made prior to submission of bid will be provided in the form of corrigendum to the bidding documents and will be posted on the BEML website (http://www.bemlindia.com/tender_hq.php).

BEML LIMITED invites tender from OEM / Dealers / Distributors/Authorised Partners as per following details:

Description	PROCUREMENT, INSTALLATION AND AMC OF "CCTV" CAMERA SYSTEMS FOR BEML REGIONAL OFFICE -35/1A, TARATALA ROAD KOLKATA – 700088
Specification	As per Annexure 'D', 'E', 'F', 'G', 'H', 'I', 'J', 'K', 'L', 'M', 'N'
Price Bid Format	As per Annexure 'O'
Validity of Price	The quoted price should firm for a period of 90 days from the date of opening of tender.

Note: To participate in this e- tender you should have Valid Class **3 organizational** digital signature.

Vendors willing to participate in the tender may contact through e-mail: admin.srm@beml.co.in to obtain the user name & password for submitting the bids.

In case of any queries relating to bid submission, you may send the same by e-mail to admin.srm@beml.co.in or you may contact BEML SRM Team on phone no. 080-22963269/141.

The last date for submission of the bid is on or before 28/01/2020 @ 14.00hrs.



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This Tender consisting of three parts:

Part A – Pre-Qualification Bid i.e. Submission of EMD (Earnest Money Deposit) at Manual Mode

Part B – Technical Bid i.e. Submission of Technical Bid (Through e-mode on BEML SRM system)

Part C – Commercial Bid i.e. Submission of Price Bid (Through e-mode on BEML SRM system)

PART A – Pre-Qualification Bid (Submission of EMD) through Manual Mode.

1. Earnest Money Deposit (EMD):

EMD amount of Rs.12,000/- can be paid online or can be submitted in the form of Demand Draft / Banker's Cheque.

Online Payment of EMD amount can be made in our Bank account details below:

A/C no.- 00000010959186252

NAME BHARAT EARTH MOVERS LTD.

BRANCH: TARATALA INDUSTRIAL ESTATE (07026)

IFS CODE: SBIN0007026

Please ensure that online payment of EMD amount is made well ahead of the EMD Submission Date & Time mentioned in the Tender.

Payment of EMD amount through DD / Banker's Cheque :

- a) EMD in the form of Account Payee Demand Draft (DD) / Banker's Cheque for **Rs.12,000/-** (Rupees Twelve Thousand only) drawn in favor of BEML Ltd, Kolkata payable at Kolkata.
- b) **The above said Demand Draft DD / Banker's Cheques/ EMD Exemption Certificate / Online payment shall be submitted in Sealed envelope duly superscribing the Bid Invitation No.6300031036 dated 01.01.2020, Closing date 28.01.2020 Time 14:00 Hrs at the top of the envelope. The words "PRE-QUALIFICATION BID" shall also to be written in bold letters at the top of the envelope. The name and address of the bidder shall be printed or written legibly on the left hand bottom corner of the envelope.**

Please attach the details duly filled-up for refund of EMD amount in the following format along with the DD / Banker's Cheque for EMD:

BANK NAME	
-----------	--

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BRANCH NAME	
CITY	
IFSC CODE	
ACCOUNT NO	
BENEFICIARY NAME	

The above sealed envelope (**Demand Draft DD / Banker's Cheques/ EMD Exemption Certificate / Copy of Online payment**) has to reach the address as mentioned below on or before the closing date & time of the tender.

Manager HR
BEML LIMITED.,
Regional office -35/1A, Taratala Road
Kolkata – 700088, India

Alternatively it can also be dropped in the Tender Box which is kept in the Room at the same address.

- c) Bidders exempted from Earnest Money Deposit (EMD) shall submit exemption certificate from competent authority.

Note: Bidder shall ensure that their EMD (DD)/EMD Exemption Certificate/Online payment is dispatched well in advance so that it reaches this office before the time and date stipulated. Requests will NOT be entertained for late receipts.

General Instructions with regard to EMD:

- Quotation submitted online without submission of EMD/EMD Exemption Certificate in-time will not be considered.
- EMD submitted in any other form will not be accepted and the offer is liable to be rejected.
- EMD lesser than Rs. 12,000/- will not be accepted and the quotation is liable to be rejected.
- EMD of technical disqualified bidder's will be returned. EMD of successful bidder will be released after supply and installation .
- EMD does not carry any interest on return.
- EMD will be forfeited if any firm withdraws the tender submitted or refuses to execute the order for reasons whatsoever.
- EMD in the form of online payment is to be made before the bid closing date and time. EMD in the form of DD / Banker's Cheque or NSIC certificate, MSME



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Certificate (firms claiming EMD exemption) etc to be submitted through courier/post in a sealed cover, super scribing the bid number and closing date, address etc. before the bid closing date. Failure to do so will result in rejection of the bid.

- h) Tender shall be opened **on closing date i.e 28.01.2020 @ 15.00hrs**
- i) No responsibility will be taken for postal or non-delivery/non receipt of EMD/firms claiming EMD exemption.

PART B – Submission of Technical Bid (Through e-mode on BEML SRM System)

Please upload the following documents in the Collaboration Folder in the system as part of Technical Bid.

The following documents signed with company seal are to be scanned and uploaded in the collaboration folder:

1. General Data in respect of your company as per Annexure ‘A’
2. Undertaking as per Annexure ‘B’
3. Undertaking as per Annexure ‘C’
4. Specification as per Annexure ‘D’, ‘E’, ‘F’, ‘G’, ‘H’, ‘I’, ‘J’, ‘K’, ‘L’, ‘M’, ‘N’.

ELIGIBILITY CRITERIA OF TECHNICAL BID

In the Technical Bid, the firm has to furnish the following details / documents with regard to their experience etc:

CREDENTIALS i.e., EXPERIENCE / FINANCIAL STATUS ETC.

1. Intending Tenderers /bidders who meets the following eligibility criteria may quote for the tender.
2. **Financial Position:** Average Annual financial turnover during the last Three (3) years, ending 31st March of the previous financial year, should be at least 30% of estimated cost. **(i.e. Rs. 1,80,000/-).**

Experience: Experience of having successfully completed similar works during last Seven (07) years ending last day of month previous to the one in which applications are invited should be either of the following:

- (i) Three similar completed works each of value (Excluding Taxes or levies)not less than the amount equal to 40% of the estimated cost. **(i.e. Rs.2,40,000/-)**

Or

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(ii) Two similar completed works each of value (Excluding Taxes or levies) not less than the amount equal to 50% of the estimated cost. (i.e. 3,00,000/-)

Or

(iii) One similar completed work of value (Excluding Taxes or levies) not less than the amount equal to 80% of the estimated cost. (i.e. Rs.4,80,000/-)

NOTE: Notarized Copies of the work order and completion certificate issued by respective clients shall be scanned and uploaded along with the technical bid. If the completion certificate is from Private organization, the same shall be scanned and uploaded along with the technical bid along with TDS certificate.

Details of Average Annual financial turnover during the last three (3) years, ending 31st March of the previous financial year.

Financial Year	2015-16	2016-17	2017-18
Annual turnover (Rs in Lakhs)			
Profit / Loss (Rs in Lakhs)			

NOTE: Copies of the Audited Balance sheet along with the Profit and loss statement for the last Three (03) years duly certified by auditor shall be scanned and uploaded along with the technical bid.

Firms **Acceptance to L.D clause**, submission



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Details of having successfully completed similar works during last Seven (07) years ending last day of month previous to the one in which applications are invited from any Government/Public Sector Undertakings/Large Private Organizations with Certificates.

Sl. No.	Name & Address of Client	Value of work & W.O. No.	Stipulated date of start	Stipulated date of completion	Actual date of completion	Completed value of work

NOTE: Notarized Copies of the work order and completion certificate issued by respective clients shall be scanned and uploaded along with the technical bid. If the completion certificate is from Private organization, the same shall be scanned and uploaded along with the technical bid along with TDS certificate

Note:

1. Technical bid will be opened first subject to receipt of original DD/Exemption Certificate for EMD/ payment made through online.
2. The vendors must ensure that the documentary proofs to substantiate clauses above are given, without which the bid is liable to be rejected.
3. Relevant documents are to be meticulously uploaded by the bidder and the bid will not be considered if any of the documents is not uploaded.
4. **Please ensure that no price details are mentioned in the technical bid** (attachments to the Collaboration Folder). Offers with price details in technical bid (under part B) will not be considered and their offer will be rejected.

PART C – Submission of Price Bid (Through e-mode on BEML SRM system)

Commercial Bid: Price bid to be submitted as per the format by clicking on **Item Data** tab in SRM.



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The price bid format is enclosed at Annexure-O (The format is only for reference. You are requested to quote on SRM platform only).

Please enter the prices in item data in the system against each item. Applicable Tax details or any other commercial details may be entered under bidder's remarks against each item.

Bidder has to quote basic price and applicable taxes. in the item data column. Applicable taxes can be selected from the dropdown box. In case any applicable taxes are not available in the dropdown box, the same may be clearly mentioned along with the % in the Bidders remarks.

The Commercial bids of only technically qualified bidders shall be opened subsequently.

L-1 (lowest tender) will be arrived on total package basis only.

3. Terms and Conditions

The quotation should be complete in all respects and free from ambiguity.

Price should be quoted in Indian Rupees only

FAX / EMAIL quotations not accepted

Indicate all applicable taxes and duties separately

Refund EMD:

EMD of the unsuccessful bidders shall be returned to them at the earliest after expiry of the Final bid validity and latest on or before the 30th day after the award of the contract.

Bid security of successful bidder will be converted as part of security deposits and the balance amount of security deposits will be met by the successful bidder.

Security Deposit/ Performance Bank Guarantee:

10 % of Contract / PO value has to be deposited as interest free security deposit / Performance Guarantee at the time of acceptance of offer towards the performance of the contract.

- **Security deposit shall be refunded after the successful completion of AMC period.**
- Performance Security may be furnished in the form of an Account Payee Demand Draft, Fixed Deposit Receipt from a Commercial bank, Bank Guarantee from a Commercial bank or online payment in an Acceptable form.



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- Performance Security should remain valid for a period of sixty days beyond the date of
- completion of all contractual obligations of the supplier including warranty obligations & AMC.

Payment terms: 100% Payment will be made on 60th day from the date of receipt of Bills after acceptance of entire system as per NIT in normal working condition and duly certified by the User Department.

AMC charges shall be paid annually after completion of AMC period.

Delivery Lead Time: Item is required urgently. The entire items as per BOQ has to be supplied, fitted , commissioned , Trail run and handed over in normal working condition within 45 days of placement of Work Order.

Delivery Terms: FOR BEML Limited, 35/1A Taratala , Kol-88, WB.

WARRANTY: All the items as per BOQ / Scope of supply shall be under warranty of 2 years from the date of final handover of entire system in normal working condition duly certified by Vendor & user department.

Validity of quotation: 90 days from the date of opening of the tender.

Insurance: Freight, forwarding charges to your account.

Offers not confirming to the above terms are liable to be ignored.

BEML reserves the right to increase / decrease the quantity at the same price, terms and conditions during the pendency of the contract.

Right of Buyer: BEML reserves the right to accept or reject any bid in part or full without assigning any reason which shall be binding on the bidder

Termination: BEML shall exercise the option to terminate the contract within one month notice in the event of Non-Performance/Poor Performance and en-cash the EMD. BEML also reserve the right to review and modify the contract at any point of time during the contract period.



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Liquidated Damages: If the Supplier exceeds any agreed delivery date (s) or period(s), purchaser shall levy LD for such delay @0.5% per week (7days) and part thereof, subject to a maximum of 5% of the value of the delayed portion of the Purchase Order.

Risk Purchase Clause: In the event of Non Performance of the order, BEML reserves the right to avail the services from alternate source at the bidder risk and cost apart from recovery/encash of EMD/PBG.

Canvassing by tenderers in any form including unsolicited letters on tenders submitted or Post tender corrections shall render their tender liable for rejection.

Incomplete offers are liable for rejection.

Offers not confirming to the above terms are liable to be ignored.

Kindly Note:

- a) If GST are not mentioned separately in the item data/bidders remarks, it will be considered as the price quoted is inclusive of all GST.
- b) If validity of the offer is not mentioned in the bidder's remarks, it will be considered as per terms and conditions of the tender enquiry.
- c) If payment terms is not mentioned in the bidders remarks, it will be considered as per terms and conditions of the tender enquiry.

4. General Terms and Conditions

(i) ARBITRATION :

For PSUs: In the event of any dispute or difference relating to the interpretation and application of the provisions of this Agreement, such dispute or difference shall be referred by either party for Arbitration to the Sole Arbitrator in Department of Public Enterprises to be nominated by the Secretary to the Government of India, in charge of the Department of Public Enterprises. The Arbitration and Conciliation Act,1996 shall not be applicable to the arbitration under this clause. The award of the Arbitrator shall be binding upon the parties to the dispute, provided, however, any party aggrieved by such Award may make further reference for setting aside or revision of the Award to the Law Secretary, Department of Legal Affairs, Ministry of Law and Justice, Government of India. Upon such reference, the dispute shall be decided by the Law Secretary or the Special Secretary/Addl. Secretary, when so authorized by the Law Secretary, whose decision

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shall bind the parties finally and conclusively. The parties to the dispute will share equally the cost of Arbitration as intimated by the Arbitrator.

For firms other than PSUs: In the event of any dispute or difference relating to the interpretation and application of the provisions of this Agreement, such dispute or difference shall be referred by either party for Arbitration to the Sole Arbitrator to be appointed by BEML. The Arbitration proceedings shall be in accordance with the provisions of Arbitration and Conciliation Act, 1996 and Rules framed there under. The place of Arbitration shall be at Bangalore and all Arbitration proceedings shall be conducted in English language and governed by the above said Act and Rules.

Courts at Bangalore shall alone have sole jurisdiction to decide any issue arising out of the Arbitration or this Agreement.

(ii) FORCE MAJEURE CLAUSE:

Notwithstanding anything contained in the Contract, neither the Supplier nor the Purchaser shall be held responsible for total or partial non-execution of any of the contractual obligations, should the obligation become unreasonably onerous or impossible due to occurrence of a 'Force Majeure' conditions which directly affect the obligations to be performed by the Purchaser or the Supplier. Such events include war, military operations of any nature, blockages, revolutions, insurrections, riots, civil commotions, insurgency, sabotage, acts of public enemy, fires, explosion, epidemics, quarantine restrictions, floods, earthquake, or acts of God, restrictions by Govt. authorities over which the Supplier or the acts on which the Purchaser has no control.

The party claiming to be affected by Force Majeure shall notify the other party in writing without delay, within two weeks on the intervention and on the cessation of such circumstance. Extension of time sought by the Supplier along with supporting evidence and so granted by the Purchaser for the supply/ work affected, if any, shall not be construed as waiver in respect of remaining deliveries.

Notwithstanding above provisions, Purchaser shall reserve the right to cancel the order/ Contract, wholly or partly, in order to meet the overall delivery schedule and make alternative arrangements including arrangements with third party for completion of deliveries and other schedules. Purchaser may takeover partly processed material at a mutually agreed price.

(iii) APPLICABLE LAWS AND JURISDICTION OF COURTS:

Indian laws both substantive and procedural, for the time being in force including modifications thereto, shall govern Contract. The competent Indian courts shall have sole jurisdiction over disputes between purchaser and the Supplier.

(iv) INTELLECTUAL PROPERTY RIGHTS; LICENSES :

If any Patent design, trademark or any other intellectual property rights apply to the delivery or accompanying documentation, Purchaser shall be entitled to the legal use thereof free of charge by means of a non-exclusive, worldwide, perpetual license. All intellectual property rights that arise due to the execution of the delivery by the Supplier and by its employees or third parties involved by the Supplier for performance of the agreement belong to Purchaser.

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The Supplier shall be obligated to do everything necessary to obtain or establish the above mentioned rights. The Supplier guarantees that the delivery does not infringe on any of the intellectual property rights of third parties. The Supplier shall also be obligated to do everything necessary to obtain or establish the alternate acceptable arrangement pending resolution of any (alleged) claims by third parties. The Supplier shall indemnify the Purchaser against any (alleged) claims by third parties in this regard and shall reimburse Purchaser for any damages suffered as a result thereof. “The Supplier shall comply with all applicable Labor Laws, particularly Contract Labor (Regulation & Abolition) Act, 1970, ESI Act, Gratuity Act, Payment of Bonus Act, Payment of Minimum Wages Act, Provident Fund Act etc., and Rules framed therein from time –to- time and the Supplier shall indemnify the Company for any loss caused to it by reason of inaction, non-compliance etc., of the provisions of any Law by the Supplier”.

(v) **BRIBES AND GIFTS:**

Any bribe, commissions, gift or advantage given, promised or offered by or on behalf of the supplier or his partner, agent or servant or anyone on his or on their behalf to any officer, servant, representative or agent of BEML or any person on his or their behalf in relation to the obtaining or to the execution of or any other contract with BEML Ltd., shall in addition to any criminal liability which the supplier, may incur, subject the supplier to the cancellation of this and all other contracts with BEML and also for payment of any loss or damage resulting from any such cancellation to like extent, the supplier shall be liable for any loss which BEML may sustain on that account. Any question or dispute as to the commissions of any offence under the present clause shall be settled by BEML in such manner and on such evidence of information as they may think fit and sufficient and their decision shall be final and conclusive.

(vi) **JURISDICTION:**

Courts at Bangalore alone shall have jurisdiction to decide any issue/dispute arising out of the Arbitration or this Purchase Order in exclusion of all other Courts. However, jurisdiction of any other court may be accepted by mutual discussion and agreement by and between the Company and the Supplier.

(vii) **DRAWINGS AND DOCUMENTS:**

Drawings, technical documents or other technical information received by one party shall not, without the consent of the other party, be used for any other purpose than that for which they were provided. They may not, without the consent of the submitting party, otherwise be used or copied, reproduced, transmitted or communicated to third parties.

The Supplier shall, as per agreed date/s but not later than the date of delivery, provide free of charge information and drawings which are necessary to permit the Purchaser to erect, commission, operate and maintain the product. All intellectual properties, including designs, drawings and product information etc. exchanged during the formation and execution of the Contract shall continue to be the property of the submitting party.

(viii) **NON-DISCLOSURE AND INFORMATION OBLIGATIONS:**



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The Supplier shall provide Purchaser with all information pertaining to the delivery in so far as it could be of importance to Purchaser. The Supplier shall not reveal confidential information to its own employees not involved with the tender / Contract & its execution and delivery or to third parties. The Supplier shall not be entitled to use the Purchaser's name in advertisements and other commercial publications without prior written permission from Purchaser.

Further to above, the supplier shall not divulge/share any data/information collected through the survey/findings of the survey to any person /firm. The complete process/assignment shall be treated as confidential.

(ix) **DURING ARBITRATION**

“Supplies under this Purchase Order, if reasonably possible, may continue by mutual agreement during the dispute / Arbitration proceedings”.

(x) **PROGRESS REPORT:**

The supplier shall regularly inform the progress of work and in such form as may be called for by the Purchaser from time to time. The submission and acceptance of such reports shall not prejudice the rights of the Purchaser in any manner.

(xi) **CONTRACT VARIATIONS: INCREASE OR DECREASE IN THE SCOPE OF SUPPLY:**

Purchaser may vary the contracted scope. If the supplier is of the opinion that the variation in scope has an effect on the agreed price or delivery period, purchaser shall be informed of this immediately in writing along with technical details, and in the event of additional work, submit a quotation with regards to the price and delivery period and the effect this scope will have on the other contracts under execution by the supplier. The supplier shall not perform additional work/ altered scope of work without the written instructions/amendment to the Purchase Order to that effect. The Purchaser also reserves its rights to decrease the scope of supply placed against Purchase Orders under due intimation to the supplier. Such decrease may be warranted due to defective goods or Policy Decisions of the Management of the Purchaser. And in such an event, the Supplier shall not have any claims or right against the Purchaser.

(xii) **NON-WAIVER OF DEFAULTS**

If any individual provision of the Contract is invalid the other provisions shall not be affected. The failure of BEML to insist upon performance of the Contract, to enforce any of the terms and conditions of this Contract or to exercise any right or privilege granted to BEML under this Contract or under law, shall not be construed as a waiver and the same shall continue in full force and effect.

(xiii) **ASSIGNMENT OF RIGHTS AND OBLIGATIONS; SUBCONTRACTING:**

The supplier is not permitted to subcontract the delivery or any part thereof to third parties or to assign the rights and obligations resulting from this agreement in whole or in part to third parties without prior written permission from Purchaser. Any permission or approval given by



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the Purchaser shall, however, not absolve the supplier of the responsibility of his obligations under the contract.

(xiv) INTEGRITY COMMITMENT IN THE EXECUTION OF CONTRACTS:

Commitment by Purchaser:

Purchaser commits to take all necessary steps to prevent corruption in connection with the execution of the Contract.

Commitment by the Contractor:

The Contractor (s) commit (s) to take all measures to prevent corruption and will not directly or indirectly try to influence any decision for the benefit for which he is not legally entitled. The contractor (s) will not commit any offence under the relevant Acts. The Contractor (s) will not use improperly, for purpose of competition or personal gain or pass on to others, any information or documents provided by Purchaser as part of business relationship.

The Consultant (s) will not enter with other Firm (s) / Consultant(s) into any undisclosed agreement or understanding or any actions to restrict competition. If the Consultant(s), before award or during execution of the consultancy Contract commit(s) a transgression of the above or in any other manner such as to put his reliability or credibility in question, Purchaser is entitled to disqualify the consultancy Contractor(s) from the consultancy process or terminate the contract and / or take suitable actions as deemed fit.



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Date: 01.01.2020

Annexure –‘A’

General Data in respect of your Company (i.e company profile)

Sl. No.	Description	To be Filled and/ or documents to be uploaded
1	Name of Bidder	
2	Company Address Telephone no: Contact Person Mobile No. e-mail ID.	
3	Bank account numbers with Banker's Name, Address & Contact Number:	Bank account number :- Bank Name :- Address :- IFSC code:
4	Copy of cancelled cheque	
5	PAN Number	
6	GST Number	
7	Description of Business & Business background	
8	OEM/ DEALER/ DISTRIBUTER/ AUTHORISED PARTNER	

I / we hereby certify that all the information given above is factual.

Signature with date of Authorized signatory

Name: _____

Designation: _____

Firm's Seal: _____



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Annexure - B

UNDERTAKING

This is to certify that _____ (Name of the Firm) has not been banned / black listed / debarred from Trade by any Central /State Govt. Dept. / Autonomous Institution / PSUs in India.

I / we hereby certify that all the information given above is factual.

Signature with date of Authorized signatory

Name: _____

Designation: _____

Firm's Seal: _____



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Annexure - C

Undertaking

To:
The Regional Manager,
Regional Office
Kolkata-88

Dear Sir,

Having examined the Bid # xxxxxxxxxx dated 00.00.2019 the receipt of which is hereby duly acknowledged, we, the undersigned, hereby confirming that we read, understood and accepting all the terms & conditions available in the tender. Further, we indicate that upon selection, we will execute the assignment as per the tender terms and conditions.

Signature with date of Authorized signatory

Name: _____

Designation: _____

Firm's Seal: _____

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TENDER No: 6300031036

Date: 01.01.2020

Technical Bid

(** No price should be uploaded in notes & attachment section.**)

Annexure-D

Specifications for FIXED BULLET CAMERA, Qty- 7 Nos.

sl. No	PARAMETER	SPECIFICATION	BIDDERS REMARKS- COMPLIED / NON COMPLIED
1	Sensor Type and Size	1/2.8" - CMOS 2MP Active Pixel Progressive Scan, Back Illuminated Image sensor (Exmor Technology - STARVIS Series)	
2	Minimum Illumination	0.08 Lux @ F2.0 @ 1/25s, No Sens-up Allowed	
3	Lens Type	Fixed Iris	
4	Focal Length	3.6mm	
5	FOV	HFOV (degrees) 90° DFOV (degrees) 110°, VFOV (degrees) 47°	
6	Shutter Speed	1/12500s to 1/25s	
7	SNR	49dB	
8	Lens Mount	M12 x 0.5	
9	Processor and RAM	Hisilicon HI-3516D, 2GB	
10	Aperture	F 1.2	
11	IR LED Type	2 - Array LEDs	
12	IR Range	30m (under controlled condition)	
13	IR Wavelength	850nm	
14	IR Type	Auto / Manual	
	NETWORK		
15	Network Protocols	TCP/IP, HTTP, DHCP, DNS, DDNS, RTP, RTSP, PPPoE, SMTP, NTP, HTTPS, FTP	
16	IMAGE AND VIDEO		
17	Video Compression	H.265, H.264 and MJPEG	
18	Resolutions	1080p(2MP), 720p, D1, 2CIF, CIF, QCIF	
19	Stream Profiles	Four streams are supported Profile 1: - 2MP up to 30 fps (H.265/H.264) Profile 2: - D1 up to 30fps (H.265/H.264) Profile 3: - D1 up to 5 fps (MJPEG) Profile 4: - 720p up to 30 fps	

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		(H.265/H.264/MJPEG)	
20	Bitrate	512Kbps - 4Mbps	
21	Frame Rate	1 - 30fps	
22	Image Enhancements	Saturation, Contrast, Brightness, Hue, Sharpness, Rotate	
23	WDR	True WDR (120dB)	
24	Image Features	ROI, BLC, White Balance, EPTZ, Smart IR, Day/Night Settings, Edge Recordings, Network Recording, Image-Snapshots	
25	DNR	3DNR and 2DNR(Auto/Manual)	
EVENTS AND ACTIONS			
26	Events	Motion Detection, View Tamper, Line Intrusion, Trip Wire, Zone Intrusion, IP-Conflict, Network-Disconnect, Storage Alert	
27	Actions	Email with Snapshot, TCP, SMS Notifications, Alarm Recording, Image and Clip Upload	
GENERAL SPECIFICATION			
28	Communication Interface	10Base-T/100BaseTX Ethernet (RJ-45)	
29			
30	SD Card	Up to 128GB (Micro SD)	
31	Power Supply	12V/2A, PoE (IEEE 802.3af)	
32	Power Consumption	6 Watt	
33	Operating Temperature/Storage Temperature	0 to 50 Degree / (-)20 to 60 Degree	
34			
35			
36	Operating Humidity	Less than 90% RH	
37	Certifications	BIS, CE, IP66, FCC Part-15 Class-B, IK10	
38	System Requirements	Windows7 and above, Browser: IE-8 and above, Plugins: IE-ActiveX, Google Chrome and Mozilla-VLC	
39	Dimension	150 x 70 (L x W)	
40	Weight and Color	500gm & White (Beige)	
41	Material Type	Aluminium	
42	Approved makes	CAMERA (SONY/ AXIS/ MATRIX /BOSCH)	

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Annexure-E

Specifications 2MP Fixed Lens Mini Dome Camera, qty-2 nos.		
sl no.	PARAMETER & SPCIFICATIONS	BIDDERS REMARKS-COMPLIED / NON COMPLIED
1	The Camera should be of 2MP Dome Type with Fixed Lens of 3.6 mm (FOV 90 °) and M12 Mounting	
2	The image sensor used in the Camera should SONY - CMOS 2MP Active Pixel Progressive Scan, Back Illuminated Image sensor(EXMOR Technology - STARVIS Series) Size: 1/2.8"	
3	The shutter time of the Camera should be 1/12500s to 1/25s	
4	The minimum illumination provided should be 0.08 Lux @ F2.0 @ 1/25s for Color Image and 0 Lux with IR LED on for B/W Image	
5	The Camera should have SNR of minimum 49dB@5lux	
6	The Camera should have the property of True WDR (Wide Dynamic Range) with 120 db rating	
7	The camera should provide 3D DNR (Digital Noise Reduction)	
	Compression Standards	
1	The video compression of the camera should be H.265/H.264/MJPEG	
2	The bit rate of the camera should be 32 Kbps ~ 4 Mbps	
3	The camera should be capable of providing 2 streams	
4	Four streams are supported Profile 1:- 2MP upto 30 fps(H.265/H.264) Profile 2:- D1 upto 30 fps(H.265/H.264)	
	Image	
5	The Maximum Image Resolution of the Camera should be 1920*1080 @ 30fps	
6	The camera should have configurable frame rate upto 30 frames	
7	The Camera should have GOP ratio from 1-100	
8	The cameras should have image settings like Rotate mode, Saturation, Brightness, Hue, Contrast adjustable by client software or web browser	

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9	The cameras should have Motion detection, View Tampering alarm, Trip wire, Line Crossing, Directional Motion, Zone intrusion.	
10	The Camera should have support of ROI, BLC, E-PTZ, White Balance, Smart IR, Day/Night Setting, Edge Recording, Network recording and Image snapshots	
	Storage and Bandwidth Optimization	
11	The Camera should record at lower bit-rate during non-activity period	
12	The Camera should provide multiple resolutions based on its importance to save network bandwidth	
	Video Analytics	
13	The Cameras should have Motion detection, View Tampering alarm, Trip wire, Line Crossing, Directional Motion	
	Alerts	
14	The camera should generate alarm trigger on Motion detection, Network disconnect, IP address conflict, Storage full, Storage error, Video Tamper, Trip wire, Zone intrusion	
	Network	
15	The camera should be capable of storage in NAS	
16	The camera should be interoperable with ONVIF, PSIA, CGI, ISAPI	
17	The camera should support TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, Bonjour	
18	The camera should be ONVIF S compliant	
19	Camera should connect to the central network on VMS with the help of video PUSH Technology irrespective of the type of network	
	Security	
20	The camera should have Watermark and User Authentication for Security	
	Interface	
21	The communication interface of the camera should be 1 RJ45 10/100Mbps Ethernet	
22	The camera should have a 128GB SD card support	
	General	
23	There should be minimum 15 - Through-hole LEDs	
24	The distance covered by the camera should be 30m	
25	The power source used in the camera should be DC12V/2A (+/-10%)	
26	The camera should have PoE(802.3af)	
27	Maximum power consumption should be 7W	
28	The camera should have IP66, CE, FCC, IK10, BIS	

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29	The maximum weight of the camera should be 450gms	
30	The dimensions of the camera should be 110mm(D), 85mm(H)	
31	The enclosure colour of the camera should be white (Aluminum)	
32	Approved Make - SONY/ AXIS/ MATRIX /BOSCH	

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Annexure-F

Specifications 2MP Motorized Vari-focal Lens Bullet Camera, qty- 6 nos.		
sl no.	PARAMETER & SPCIFICATIONS	BIDDERS REMARKS-COMPLIED / NON COMPLIED
1	The Camera should be of 2MP Bullet Type with Motorized Varifocal with P-Iris Lens of 2.8-12 mm (FOV 98° to 33°) and M14 Mounting	
2	The image sensor used in the Camera should SONY - CMOS 2MP Active Pixel Progressive Scan, Back Illuminated Image sensor(Exmore Technology - STARVIS Series) Size: 1/2.8"	
3	The shutter time of the Camera should be 1/12500s to 1/25s	
4	The minimum illumination provided should be 0.08 Lux @ F2.0 @ 1/25s for Color Image and 0 Lux with IR LED on for B/W Image	
5	The Camera should have the property of IR cut filter with auto switch	
6	The Camera should have SNR of minimum 49dB@5lux	

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7	The Camera should have the property of True WDR (Wide Dynamic Range) with 120 db rating	
8	The Camera should provide 3D DNR (Digital Noise Reduction)	
	Compression Standards	
9	The video compression of the Camera should be H.265/H.264/MJPEG	
10	The bit rate of the Camera should be 512 Kbps ~ 8Mbps	
11	The Camera should be capable of providing Four streams	
12	The Camera should support Four Streams: Profile 1:- 2MP upto 30 fps(H.265/H.264) Profile 2:- D1 upto 30fps(H.265/H.264) Profile 3:- D1 upto 5 fps(MJPEG) Profile 4:- 720p upto 30 fps(H.265/H.264/MJPEG)	
	Image	
13	The Maximum Image Resolution of the Camera should be 1920*1080(2MP) @ 30fps	
14	The Camera should have configurable frame rate upto 30 frames	
15	The Camera lens should have no. of Active Pixels should be 1937x1097 (2.12 M Pixels)	
16	The Camera lens should have no. of effective Pixels should be 1945x1097 (2.13 M Pixels)	
17	The Camera lens should have total no. of Pixels should be 1945x1109 (2.16 M Pixels)	
18	The Cameras should have image settings like Rotate mode, Saturation, Brightness, Contrast adjustable by client software or web browser	
19	The Camera should have support of ROI, BLC, E-PTZ, Digital Zoom and Edge Recording Function support	
	Audio	
20	The Camera should have audio input and output	
21	The Camera should support two way audio	
22	The audio compression of the Camera should be G.726 and G.711	
23	The Camera should have alarm input and output	
	Video Analytics	
24	The Cameras should have Motion detection, View Tampering alarm, Trip wire, Line Crossing, Directional Motion	
	Alerts	

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25	The Camera should generate alarm trigger on Motion Detection, Network Disconnect, IP Address Sonflict, Storage Full , Storage Error, Video Tamper, Trip Wire, Zone Intrusion	
	Network	
26	The Camera should be capable of storage in NAS	
27	The Camera should be interoperable with ONVIF G Profile	
28	The Camera should support TCP/IP,ICMP,HTTP,HTTPS,FTP,DHCP,DNS,DDNS,RTP,RTSP,RTCP,PPPoE,NT P,UPnP,SMTP,SNMP,IGMP,802.1X,QoS.	
29	Camera should connect to the central network on VMS with the help of video PUSH Technology irrespective of the type of network	
	Interface	
30	The communication interface of the Camera should be 1 RJ45 10/100Mbps Ethernet	
31	The Camera should have a 128GB SD card support	
	General	
32	There should be minimum 4 IR Array LEDs in the Camera	
33	The distance covered by the Camera should be minimum 20m	
34	The power source used in the Camera should be DC12V/2A (+/-10%)	
35	The Camera should have PoE(802.3af)	
36	Maximum power consumption should be 7W	
37	The Camera should have IP66, CE,FCC	
38	The maximum weight of the Camera should be 920gms	
39	The dimensions of the Camera should be 320(L)x84.5(H)x92.5(W)mm	
40	The enclosure colour of the Camera should be white	
41	Approved Make-SONY/ AXIS/ MATRIX /BOSCH	

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Annexure – G

Tender Specifications-2MP PTZ Cameras , qty-1		
sl no.	PARAMETER & SPECIFICATIONS	BIDDERS REMARKS-COMPLIED / NON COMPLIED
	Camera	
1	1/2.8" Progressive Scan CMOS should be the Image Sensor used	
2	0.005Lux (F1.6, AGC ON) for Color, 0Lux with IR, 0.001Lux (F1.6, AGC ON) for B/W	
3	The camera should have the property of Auto White Balance (Auto/Manual/ATW/Indoor/Outdoor/Daylight Lamp/Sodium Lamp)	
4	S/N Ratio should greater than or equal to 50dB	
5	The camera should have property of True WDR (120dB)	
6	The camera should have property of 3D DNR	
7	The automatic electronic shutter speed should be 1 ~ 1/30,000s	
8	The camera should have IR cut filter	
9	The optical zoom of the camera should be 32x	
10	The camera should have the property of Backlight Compensation and Highlight Compensation	
11	The camera should have 24 privacy masks programmable	
12	Focus mode of camera should be Auto/Semi-auto/Manual	
13	The camera should support G.711ulaw/G.711alaw/G.726/MP2L2/G.722/PCM audio compression	
	Lens	
14	The lens size should be 4.8 ~ 153mm	
15	Zoom speed of the camera should be 5.6s(Optical Wide-Tele)	
16	Horizontal View Angle of the camera should be 55.6° to 2.04°	
17	Aperture range of the camera should be F1.2 ~ F4.4	
	Pan and Tilt	
18	The number of preset positions of the camera should be 300	
19	The pan range of the camera should be 360°	

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20	The Pan Manual Speed should be $0.1^\circ \sim 160^\circ/s$, Pan Preset Speed should be $240^\circ/s$, Tilt Manual Speed should be $0.1^\circ \sim 120^\circ/s$, Tilt Preset Speed should be $200^\circ/s$	
21	The tilt range of the camera should be $-15^\circ \sim 90^\circ$	
22	The camera should support Preset/Pattern Scan/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame Scan/Panorama Scan	
	Video Analytics	
23	The camera should have basic events: Motion Detection, Alarm Input, Alarm Output, Video Tampering Detection, Exception	
24	The camera should have smart events: Face Detection, Intrusion Detection, Line Crossing Detection, Region Entrance Detection, Region Exiting Detection, Object Removal Detection, Unattended Baggage Detection	
25	The camera should Auto-tracking and ROI support in-built	
	Infrared	
26	The IR camera range should be 150m	
27	The number of IR array LEDs should be 6	
	Interface	
28	The camera should have 1 Mic in/Line in Interface with Line Input: $2 \sim 2.4V[p-p]$ and Output Impedance: $1K\Omega, \pm 10\%$	
29	Alarm Interface should be 2-ch alarm input and 1-ch alarm output	
30	The camera should have 1 Audio Output Interface with Line Level Impedance: 600Ω	
	Network	
31	The camera should have 1 RJ45 10/100Mbps Ethernet Interface	
32	The camera should follow these network protocols: IPv4/IPv6, HTTP, HTTPS, 802.1X, QoS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, ICMP, DHCP, PPPoE, Bonjour	
33	The camera should be capable of 20 camera simultaneous live view	
34	The camera should be capable of configuring three streams	
35	The camera should have up to 32 users	
	Integration	
36	The camera should have ID and PW user authentication	
37	The camera should have MAC address host authentication	
38	The camera should have IP address filtering	
39	The camera should have an open-ended API	
40	The camera should support ONVIF protocol	
41	The camera should support PSIA protocol	

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42	The camera should support CGI protocol	
43	The camera should be compatible with IE 8 to 11, Chrome 31.0 to 44.0, Firefox 30.0 to 51.0	
General		
44	The power source used in the camera should be 24 VAC and Hi-PoE	
45	The maximum weight of the camera should be 4.5kg	
46	The power consumption of the camera should be Max.: 40 W (Max. 14 W for IR)	
47	The dimensions of the camera should be $\Phi 220 \times 353.4$ mm ($\Phi 8.66'' \times 13.91''$)(Outdoor)	
48	The operating temperature should be -30°C to 65°C , RH90% Max	
49	The enclosure colour of the camera should be white	
50	The camera should be IP66	
51	The camera should have TVS 4,000V Lightning Protection	
52	The camera should have Surge Protection	
53	The camera should have Voltage Transient Protection	
54	Signal System of the camera should be PAL/NTSC	
55	The camera should have a SD card slot up to 256GB	
56	Approved Make- SONY/ AXIS/ MATRIX /BOSCH	

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Annexure – H

TECHNICAL SPECIFICATIONS –SURVEILLANCE HDD (SEAGATE / WD), qty 4 nos.			
sl no.	PARAMETER	SPCIFICATIONS	BIDDERS REMARKS-COMPLIED / NON COMPLIED
SURVEILLANCE HDD -6TB			
1	Health Management Included ¹	Yes	
2	Interface	SATA 6Gb/s	
Features and Performance			
3	Drive Bays Supported (min)	8+	
4	Cameras Supported	Up to 64	
5	Max. Sustained Transfer Rate OD (MB/s)	195MB/s	
6	Cache (MB)	256	
Reliability/Data Integrity			
7	Tarnish Resistant	Yes	
8	Load/Unload Cycles	300,000	
9	Nonrecoverable Read Errors per Bits Read, Max	1 per 10E15	
10	Power-On Hours per Year (24x7)	8760	
11	Workload Rate Limit (WRL) ²	180	
12	MTBF min	1,000,000hr	
Power Management			
13	Startup Current, Typical (12V, A)	2	
14	Average Operating Power (W)	9W	
15	Idle Average (W)	7W	
16	Standby Mode/Sleep Mode, Typical (W)	0.6/0.6	
17	Voltage Tolerance (5V)	±5%	
18	Voltage Tolerance (12V)	±10%	
Environmental/Temperature			
19	Operating (ambient, min °C)	5	
20	Operating (drive case, max °C) ⁴	70	
21	Nonoperating (ambient, min °C)	-40	
Physical			

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22	Height (mm/in, max)	26.11mm/1.028in or Plus or Minus 5%	
23	Width (mm/in, max)	101.85mm/4.01in or Plus or Minus 5%	
24	Depth (mm/in, max)	146.99mm/5.787in or Plus or Minus 5%	
25	Weight (g/lb)	705g/1.55lb or Plus or Minus 5%	
26	Carton Unit Quantity	20	
27	Cartons per Pallet/Cartons per Layer	40/8	
28	Approved Make	Seagate / WD	

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Annexure – I

Technical Specifications: 9 port Gigabit Network switch with 8- PoE Port Switch, qty-4 nos.			
sl. No.	Parameter	Specification	BIDDERS REMARKS- COMPLIED / NON COMPLIED
1	Product/Performance Specifications	MAC Address Table: 1K	
2		Switch Fabric: 1.6Gbps	
3		Transmission Method: Store-and-forward	
4		Packet Buffer Memory: 96KB	
5	Diagnostic LEDs	Per Unit: Power / PoE Max	
6		Per Port: Activity / Link & Speed	
7		PoE port: Power / Status	
8	Interface Options	RJ-45: 10BASE-T, 100BASE-TX	

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9	Network Protocol and Standards	IEEE: 802.3 Ethernet, 802.3u, 802.3x Flow Control, 802.3af (Power over Data Pairs)	
10	Electrical	Power Supply: 48V DC/1.25A	
11		Max Power Consumption: 69 Watts maximum	
12		PoE budget: Up to 15.4 Watts max per port, for Ports 1-4 Only. 52 Watts Total	
13	Minimum System Requirements	Devices Supporting 802.3 Ethernet or 802.3u Fast Ethernet	
14		CAT6 Ethernet Cable	
15		RJ-45 port for Each Computer	
16		CD-ROM Drive to View Product Documentation	
17	Package Contents	8 PoE Ports	
18		Power Adapter	
19		CD-ROM2 with Product Documentation	
20	Operating Temperature	Operating: 32° to 104°F (0° to 40°C)	
21		Storage: 14° to 158°F (-10° to 70°C)	
22	Operating Humidity	5% ~ 90% RH, Non-condensing	
23	Certifications	FCC Class B	
24		CE	
25		RoHS	
26	Approved Make	D LINK / TP LINK /SECUREYE	

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Annexure – J

SPECIFICATION-HIGH RESOLUTION DISPLAY UNIT, qty-2nos			
Sl. No.	Paramaters	Specification	BIDDERS REMARKS-COMPLIED / NON COMPLIED
1	Display Type	LED	
2	Screen Size (min)	43 Inches	
3	Connectivity	HDMI, USB	
4	Resolution (min)	920x1080	
5	Number of selectable Picture Modes (min)	5	
6	Selectable Sound Modes (min)	5	
7	Number of Speakers (min)	2	
8	Approved Make	LG / SONY	

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Annexure – K

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SPECIFICATIONS -32 CHANNEL NETWORK VIDEO RECORDER -qty- 1nos.		
sl. No	PARAMETER & SPECIFICATIONS	BIDDERS REMARKS- COMPLIED / NON COMPLIED
1	HARDWARE	
2	The Equipment Shall Be Electronic Type	
3	The Device Shall Be Plug And Play System	
4	The Device Should Work Either In Standalone Or Network Mode	
5	Remote NVR Should Be Viewed From Local View	
6	The Device Should Be Designed, Developed and Manufactured In India	
7	NVR should support 3G connectivity via a USB based 3G dongle	
8	The system Must be capable of integrating at Data Base level with Biometric access control system and other sensors.	
9	SOFTWARE SPECIFICATIONS	
10	Device must have inbuilt storage calculator which shows how much day we will be able to record	
11	Device Should Have Auto configuration Funtion which connects all the camera connected in the LAN to the devices one by one Automatically of manufacturer's brand only	
12	Device must be capable of taking Snapshot action with integrated Biometric Access control and time attendance system	
13	VIDEO	
14	The system should support up to 32 IP Channels	
15	The Device Should Support HDMI (2.0) – 1 Port	
16	The Device Should Support H.265/H.264/ Motion JPEG Video Compression Technique	
17	AUDIO	
18	The System Should Work on Audio Compression Standards Which is G.711, G.726 and PCM	
19	THROUGHPUT	
20	Device Should Support Throughput of 512Mbps(256Mbps Downlink & 256Mbps Uplink)	
21	Device Should Allow 9+1(Admin) Simultaneous Log-in	
22	DISPLAY	
23	Split (Through LAN/HDMI): 1x1, 2x2, 3x3, 4x4, 1+5, 1+7, 3+4, 2+8, 1+12, 1@+12, 1+9, 4+9,2+12, 5x5, 6x6, 8x8 and Sequential	
24	Resolution: 4 x 4k/16 x 1080P/64 x D1	
25	Digital Zoom during live view	
26	The system should be able to take a Snapshot in JPEG format	

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27	The Device should be capable of cascading with(1 Master + 19 Slave) the other same number of channel NVR/HVR or even with the lesser number too.	
28	With the Cascading feature device should be capable of acting as a Master device and should be able to View/Playback/Configure other connected slave devices camera from the Local View(via HDMI/VGA/CVBS)	
29	It Should Provide an On-Screen Display of Channel Number and Name, Status, Video Loss, Recording and Disabled Channel (As per camera support)	
30	It Must Provide Snapshot During Monitoring	
31	It Must Support User Defined Layout Styles	
32	It Must Provide User Selectable Display Sequence	
33	RECORDING	
34	The Device Should Provide An Image Resolution of 12MP, 8MP, 5MP,3MP, 2MP, 1080P, D1, CIF	
35	NVR Should Be Capable Of Pre-Recording Up to 30 Sec	
36	NVR Should Be Capable Of Post-Recording For 10-300 Sec	
37	NVR Should Support Camera Wise Recording Retention	
38	The System Should Have Various Recording Modes Such as Manual Recording , Continuous Recording , Scheduled Recording, Motion Recording and Alarm Recording	
39	Device Must be Capable of Recording Camera Wise as per the priority of Camera	
40	STORAGE AND BANDWIDTH OPTIMIZATION	
41	Device Must Support Adaptive Recording Feature which Automatically Adjusts Frame Parameters Based on Motion in Scene to Save Storage on Recording	
42	Device must Automatically Adapt Optimized Resolution on Local Display through HDMI To Optimize Bandwidth	
43	PLAYBACK AND BACKUP	
44	The Device Must Have Various Search Modes Like: Date and Time, Channel, Recording Type should be available in the system	
45	The Device Must Have Various Playback Modes Like: Fast Reverse, Fast Forward, Slow Forward, Previous Video, Next Video, Different Speed Control Should Be Supported By The System	
46	The Device Must Provide Manual Backup Over USB, NAS/FTP	
47	The Device Must Support Scheduled Backup Over USB, NAS/FTP	
48	The Device Must Provide Configuration Backup	

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49	Network Supported Protocols with Device Shall Be TCP/IP, DHCP, PPPOE, DDNS, DNS, FTP, SMTP, NTP, RTP, RTSP, HTTP and CIFS	
50	Remote Operations Must Include Monitoring , PTZ Control, Playback, System Setting, File Download, Log Information, Upgrade	
51	Synchronous Playback of Upto 4 Channels	
52	Timeline Based Search From Local As Well As Web Client	
53	The Device Should Have Facility of Live or Remote Playback	
54	It Should Have its Own Free DNS Server	
55	Scheduling should be every 6 hours, 12 hours, 24 hours or weekly	
56	Backup fail Event to inform User that Schedule Backup is Stopped for any reason	
57	EVENTS AND ACTION	
58	The Device Must Include Trigger Events Like :Motion Detection, View Tampering, Connection Failure, Recording Failure, Manual Trigger, On Boot Alarm, Storage Alert, Disk Volume Full, Disk Fault, Scheduled Backup Fail	
59	Actions: Recording on Selected Channel, FTP/Email server, Email Notification with Snapshot, TCP Notification, Recall PTZ Preset Position, Turn On/Off Alarm Outputs, Buzzer Notification, SMS Notification, Calling from Mobile App	
60	Should Support SMS Using Network With Services Like SMS Gateway Centre, SMS Lane, Business SMS and Bulk SMS	
61	Video pop-up for both Device and Local client	
62	Pop-up event for recording stop due to any reason.	
63	Device must be capable of capturing the Image action guided by the Biometric access control or time attendance system.	
64	STORAGE INTERFACE	
65	The System Should Be Capable Of Storing Data on 4 SATA Hard Disk With Upto 10TB Per Disk	
66	The Device Must Support Storage on 2 Network-Attached Storage(NAS)	
67	The Device Must Support 1TB USB Drive	
68	NVR Should support RAID-0, RAID-1, RAID-5, RAID-10	
69	The Device Must be Capable of Recording Videos for Differnt Nuber of Days as Per the Priority of Camera	
70	The Device Must be Capable of Taking Backup of The Recordings As Per The Priority Of The Camera	
71	INTERFACE	
72	Communication Interface Shall be RJ45 10/100Mbps Adaptive Ethernet Interface	

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73	It Should Provide 3 USB Ports (1x USB 3.0, 2x USB2.0)	
74	The Device Must Have 2 Alarm Input and 1 Alarm Output	
75	It Should Have Reset Switch	
76	SYSTEM INTERFACE	
77	Processor: High Performance Embedded Microprocessor, HI 353A	
78	NVR System Should have Linux Based Operating System (OS) with Intuitive GUI and Web-Based Interface.	
79	Control Mode: Mouse, Web Client and Mobile Client	
80	3 User Access Levels (Default): Admin, Viewer and Operator	
81	10,000 Events Log	
82	Embedded Web Server	
83	Up to 120 Programmable Users	
84	WEB CLIENT	
85	NVR System Should Have Inbuilt Web Based Command and Control Application Designed For Use Of Enterprise, Remote and Network Applications	
86	The System Should be Able To Remotely Access Live and Stored Videos Using The Web	
87	The System Should be Capable Of Remotely Accessing, Search, Browse, Display and Transfer Stored Video to a Remotely Connected Workstation	
88	The NVR Web Client Should be Able to Receive Notifications For Events Such as Alarm, Motion Detection and Video Loss	
89	Web Client Should be Capable of Performing All Pentaplex Functions (i.e. live recording, monitoring, playback, backup and remote access) Simultaneously	
90	Web Client Should Be Capable of Managing and Monitoring Cameras From Another NVR	
91	User Login and Access Privilege Should Be Defined For The Web Client	
92	MOBILE VIEWER	
93	Mobile Viewer should be Provided By The Vendor Free of Cost With The NVR system	
94	The Mobile Viewer Should Be Able To Display 1 to 4 Channel Live	
95	The Mobile Viewer Should Have 2x2 Layout For Display	
96	The Mobile Viewer Should Have Digital Zoom Option	
97	The Mobile Viewer Should Be Able To Remotely Control PTZ Cameras	
98	The Mobile Viewer Software Should Support Up To 50 NVRs	
99	Software Should Have Feature To Configure Camera As Favorite Channel	

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100	Mobile Viewer Application Should Function On Android and IOS Based Phones	
101	Mobile Viewer Application Should Support Calling from Mobile App Feature Where a Mobile Number/Extension* Number Can be Added Per Camera In the Device and The User Can Directly Call a Concerned Person by Just One Click on Camera View From Mobile	
102	* Extension Number Can be Added In Mobile Calling Only If IP-PBX Belongs to Brand	
103	OTHER FEATURES	
104	NVR System Should Be Capable of Exporting Files In Native and AVI File Format to FTP and USB.	
105	NVR Should Provide a Storage Calculator to show available storage capacity	
106	The system should Manage Storage on FIFO basis	
107	IP and MAC Address Filtering Should be Done to Enhance Security	
108	System Admin Should Be Capable of Programming PTZ Tour	
109	Dual Stream Option Should Be Available For Simultaneous Recording and Transmission of Video On The Network Depending On The Bandwidth.	
110	The system should support Pelco P and Pelco D Protocol for PTZ control	
111	The system should be capable of PIP zoom from live and playback	
112	The system should support Day Light Saving Time (DST)	
113	CAMERA SUPPORT	
114	The system should be capable of integrating with IP camera of any brand which support ONVIF 2.0 & above	
115	It Shoud Support the mostly used Camera Brands such as: AXIS, MATRIX BOSCH , ACTi, Samsung, Panasonic, Sony, Hikvision, Dahua, Planet, Vivotek, LevelOne, Grandstream, Infinova, D-Link, Mobotix, and ONVIF 2.0 & above	
116	OPERATING TEMPARATURE	
117	The Device Must Be Capable of Working At An Operating Temperature varying between 0°C to +50°C (32°F to 122°F)	
118	The Device Must Be Capable Of Working Under 5% to 95% RH Non-Condensing Humidity	
119	ELECTRICAL AND MECHANICAL	
120	Single Unit Weight should not exceed 3.88Kg	
121	Approved Make- SONY/ AXIS/ MATRIX /BOSCH	
	Backup/ storage Device to be provided separately. Paramaters Specifications	



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122	Memory Storage Capacity Min 4 TB	
123	USB Connectivity 2.0 & 3.0	
124	Plug & Play functionality Shall be available	
125	Power Supply- No External Power supply Through USB drive	
126	Colour- Black	
127	USB Cable Shall be included in the kit	

Signature with date of Authorized signatory

Name: _____

Designation: _____

Firm's Seal: _____

TENDER No: 6300031036

Date: 01.01.2020

Annexure – L

SPECIFICATION - ONLINE UPS, qty-2nos.		
SL. NO.	TENDER SPECIFICATIONS	BIDDERS REMARKS - COMPLIED / NON COMPLIED
1	1 KVA ON LINE UPS STANDARD BACK UP TIME- 5-15 MINS , NOISE<45db,	
2	Approved Make-AVO/ NUMERIC / PROSTAR	

Signature with date of Authorized signatory

Name: _____

Designation: _____

Firm's Seal: _____



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TENDER No: 6300031036

Date: 01.01.2020

Annexure – M

Cabling , Networking, Mounting, Installation, Testing & Commissioning

SL. NO	SPECIFICATION	QTY	BIDDERS REMARKS- COMPLIED / NON COMPLIED
1	CAT6 CABLE & CONDUITE WITH LAYING CHARGES (D-LINK)	As per actual requirement	
2	RJ 45 JACK of reputed make	36 As per actual requirement	
3	6U WALL MOUNT RACK (make- VALRACK / D-LINK)	1	
4	4U NETWORKING RACK (make- VALRACK / D-LINK)	1	
5	INSTALLATION TESTING & COMMISSIONING	1	

Signature with date of Authorized signatory

Name: _____

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TENDER No: 6300031036

Date: 01.01.2020

Annexure – N

Annual Maintenance Contract (AMC)

SL. NO	SPECIFICATION	BIDDERS REMARKS- COMPLIED / NON COMPLIED
6	<p>ANNUAL MAINTANANCE CONTRACT FOR 3 YEARS AFTER COMPLETION OF 2 YEARS WARRANTY PERIOD. SCOPE OF AMC, I.E.</p> <p>1ST YEAR AFTER COMPLETION OF WARRANTY PERIOD. 2ND YEAR AFTER COMPLETION OF WARRANTY PERIOD, 3RD YEAR AFTER COMPLETION OF WARRANTY PERIOD, :</p> <ul style="list-style-type: none">• AMC SHALL COVER AND INCLUDE SCHEDULED & BREAKDOWN MAINTENACE OF ALL THE ITEMS SUPPLIED UNDER THE SCOPE OF SUPPLY/ BOQ OF THE NIT FREE OF COST .• REPLACEMENT / SUPPLY/ REPAIR OF ANY DEFECTIVE PARTS OR ASSEMBLY IDENTIFIED DURING SCHEDULED / BREAKDOWN MAINTENACE HAS TO BE SUPPLIED BY VENDOR FREE OF COST TO MAKE THE SYSTEM WORKING IN NORMAL CONDITION WITHIN 24 HRS OF REPORTING.• SUITABLE REPLACEMENT HAS TO BE DONE BY VENDOR IF ITEMS ARE NOT AVAILABLE DUE TO BEING OBSOLETE.• ALL COMPLAINS TO BE ATTENDED WITH IN 24 HRS.• VENDOR HAS TO PERIODICALLY VISIT I.E. ONCE IN EVERY MONTH FOR HEALTH CHECKUP OF THE ENTIRE SYSTEM SUPPLIED AS PER THE SCOPE OF SUPPLY / BOQ. EVERY VISIT TO BE RECORDED AND SERVICE REPORT DULY CERTIFIED BY HR DEPT TO BE MAINTAINED AND SUBMITTED ALONG WITH BILLS FOR PAYMENT.	

AMC CAN BE EXTENDED FOR FURTHER PERIOD BASED ON MUTUAL CONCENT.

Signature with date of Authorized signatory

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Date: 01.01.2020

Annexure – O

PRICE BID FORMAT

Sl. No.	Description	Quantity
01)	Fixed Bullet Camera	07 Nos.
02)	Fixed Lens Mini Dome Camera	02 Nos.
03)	Motorized Vari-Focal Lens Bullet Camera	06 Nos.
04)	PTZ Camera	08 Nos.
05)	Surveillance HDD	04 Nos.
06)	9Port Gigabit Network Switch with 8PoE Port Switch	04 Nos.
07)	High Resolution Display Unit	02 Nos.
08)	Network Video Recorder (NVR)+ backup storage device	01 Nos.
09)	Online UPS	02 Nos.
10)	Cabling, Networking, Mounting, Installation, Testing and Commissioning	01 Lot.
11)	Annual maintenance contract	1 st ,2 nd and 3 rd yearly charges

Note: Payment for cabling at (sln.10 above) will be done on actual measurement based on the Certification from the user department.

Signature with date of Authorized signatory

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TENDER No: 6300031036

Date: 01.01.2020

Annexure-P

Special Conditions arising out of implementation of GST (Which is to be signed and submitted along with the offer)

Tax Indemnity clause

1. The supplier of Goods / Services shall comply with all the procedural requirements and relevant provisions under GST Law so as to enable BEML Limited (BEML) to avail Input Tax Credit (ITC) in a timely manner. BEML has the right to recover tax loss along with consequential interest and penalty suffered by BEML due to any non-compliance of tax laws by the supplier. Any GST liability arising on the supplier on account of loss of GST credits for reasons such as failure of the supplier to provide the details for raising invoice with necessary particulars, delay in payment of consideration beyond stipulated time period and the interest thereon would be on the suppliers themselves and BEML shall not be liable to compensate the same.
2. The supplier shall ensure that the Taxes which have been collected / with-held on behalf of BEML have been duly paid / will be paid to the Government account within the due dates specified under various Tax Laws in India and Rules made there under. It may please be noted that if BEML is not able to avail any tax credit due to any short coming on the part of the supplier (which otherwise should have been available to BEML in the normal course), then the supplier at his own cost and effort will get the short coming rectified. If for any reason the same is not possible, then the supplier will make 'good' the loss suffered by BEML due to the tax credit it lost in that transaction.
3. Under the GST Law, any economic or tax benefit arising out of the implementation of GST is mandatory and required to be passed on to BEML by the supplier. Similarly, the benefits enjoyed by the supplier and other players in the supply chain are also required to be passed on to the supplier by them, which in turn shall be passed on to BEML by way of price reductions. The suppliers shall indemnify BEML against any direct or indirect loss arising out of not passing on the aforesaid benefits. As responsible suppliers of BEML, the responsibility to pass on the above benefits vests with the supplier and BEML reserve the right to seek the manner in which such benefits is passed on to BEML.
4. Any amount paid to the suppliers including job-workers / sub-contractors shall be first attributable to the GST Tax charged in the invoice and the balance shall be considered towards the 'value' of supply of goods / services.

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5. Timely provision of invoices / Debit Note / Credit Note: The supplier has to timely provide invoice / Debit Note / Credit Note to enable BEML to claim tax benefit on or before stipulated time period as per GST Law. All necessary adjustment entries (Credit Note, Purchase Returns, Debit Notes) shall be made before September of the succeeding Financial Year.
6. HSN for goods shall be specifically included to avoid disagreement on classification at a later stage.
7. BEML shall identify the Place of supply to enable to avail the GST credit at right location.
8. Advance payment if any made before supply of goods/services or raising of invoices, would attract GST. In case of receipt of advance, the supplier undertakes to raise the necessary statutory document. Further the supplier declares to raise the prescribed documentation governing the movement of goods.
9. Any known discount shall form part of terms of the agreement to enable Supplier / BEML to claim tax adjustment.
10. THREE copies of the invoices are mandatory and need to be provided by the suppliers and wherever the law requires, an Electronic Reference Number for each invoice should be provided. Further, the invoices for supplies shall clearly bear the GSTIN No. / UID No. along with purchase order number and date accompanied by despatch advice and date of packing list.
11. Wherever applicable, BEML has the right to deduct “Tax deducted at source” at the rate prescribed under the GST law and remit the same to the Government of India.
12. Any local levies and or other charges levied by any Central / State / Local authorities wherever applicable shall be extra and supplier shall be liable to discharge the same.
13. The supplier shall be responsible to issue documents required for movement of goods and the logistic partner shall not be liable for any loss arising due to confiscation of goods by government agencies on account of lack of proper documents, deficiencies in documentation or any wrong declaration.
14. Any Liability arising out of dispute on the tax structure, computation and payment to the Government will be to the Supplier’s account.

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15. Where the supply of goods / services are liable to GST under reverse charge mechanism, then the supplier should clearly mention the category under which it has been registered and also that “the liability of payment of GST is on the Recipient of Service”.
16. The invoice should be clearly specified with any abatement, if any claimed or otherwise from the Taxable Value, while calculating the GST.
17. The Bid evaluation criteria will include but not limited to ‘GST Compliance rating’ when introduced and operational by GSTN. The Purchase Order shall be void, if at any point of time the supplier is found to be a blacklisted dealer as per GSTN rating system and further no payment shall be entertained.

Signature with date of Authorized signatory

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DETAILS OF PRE QUALIFICATION, TECHNICAL & COMMERCIAL BID

Sl. No.	Work Description	EMD Amount (In Rs.)	A. Last date for submission of Tenders B. Date of opening of pre qualification bid C. Date of opening of technical bid D. Date of opening of commercial bid	Similar Nature of Work
1	PROCUREMENT, INSTALLATION AND AMC OF “CCTV” CAMERA SYSTEMS FOR REGIONAL OFFICE -35/1A, TARATALA ROAD KOLKATA – 700088	Rs.12000/-	A. 28/01/2020 at 14:00 Hrs B. 28/01/2020 at 14:00Hrs C. 28/01/2020 at 15:00 Hrs D. Date of opening the commercial bids will be intimated to only the technically qualified Tenderers/bidders.	As per NIT

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Mode of submission and Documents

Sl. No.	Nature of Bid	Mode of submission	Documents required to be submitted by the bidder
A	Pre-qualification bid Envelope	<p>1) Manual Mode through Hard copy that should reach The Manager(HR), BEML LIMITED, 35/1A, Taratala Road, Kolkata-700088.on or before 28/01/2020at 14:00.</p> <p>2) The sealed envelope of Prequalification bid will be opened on closing date 28/01/2020 at 14:00 Hrs in presence of the bidders, who wish to be present at the above venue.</p> <p>3) Pre qualification bid received late on account of any reason whatsoever will be rejected.</p>	1) EMD: Rs 12000.00 (Twelve thousand) by DD/Banker's cheque/ Online Payment.

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Sl. No.	Nature of Bid	Mode of submission	Documents required to be submitted by the bidder
B	Technical Bid	<p>4) Through e-mode / BEML SRM Platform wherein Tenderers/bidders to submit their technical bids will be opened on closing date 28/01/2020 at 15:00 Hrs in presence of the bidders, who wish to be present at <u>the above venue.</u></p> <p>5) However, technical bids of those firms who meet the pre-qualification criteria in all aspects will only be considered for further evaluation.</p>	<p>1. Documents to be uploaded by bidders in BEML SRM Platform as per ELIGIBILITY CRITERIA.</p> <p>2. All pages of NIT to be duly filled, signed & sealed. The sealed & Signed NIT to be scanned and upload at notes & attachment Section.</p> <p>3. No price to be indicate in any document of Technical Bid.</p>
C	Commercial Bid	<p>6) Through e-mode / BEML SRM Platform wherein Tenderers/bidders to submit their technical bids will be opened on closing date XX/XX/2020 at 00:00 Hrs in presence of the bidders, who wish to be present at the above venue.</p> <p>6) However, technical bids of those firms who meet the pre-qualification criteria in all aspects will only be considered for further evaluation.</p>	<p>Duly filled Bill of Quantities, (As per BEML SRM Platform).</p>