

REQUEST FOR PROPOSAL (RFP)

SUPPLY, INSTALLATION, TESTING AND COMMISSIONING
OF
CCTV SURVEILLANCE SYSTEM
FOR
SECURITY OF BUILDING OF THE ACADEMY
AT
INDIAN NATIONAL SCIENCE ACADEMY (INSA), DELHI

Ref No. BECIL/PROJ./VPS/CCTV/INSA/2019

Dated: 11th September 2019



Broadcast Engineering Consultants India Limited

(A Government of India Enterprise)

Head Office: 14-B Ring Road, IP Estate, New Delhi- 110002

Tel: 011 23378823 Fax: 01123379885

Corporate Office: BECIL BHAWAN, C-56-A/17, Sector-62, Noida-201 307

Tel: 0120 4177850 Fax: 0120 4177879

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TABLE OF CONTENTS

SECTION I. GENERAL INFORMATION & INSTRUCTIONS TO BIDDERS

- A. RFP Schedule and Critical Dates**
- B. Intent of the Request for Proposal**
- C. Procedure Terms and General Conditions**
- D. Eligibility Criteria**
- E. Commercial Conditions**
 - 1 Earnest Money Deposit
 - 2 Prices
 - 3 Payment Terms for INR
 - 4 Consignee
 - 5 Tax Invoice
 - 6 Delivery Schedule & Commissioning Period
 - 7 Packing
 - 8 Guarantee / Warranty
 - 9 Performance Bank Guarantee
 - 10 Late Delivery
 - 11 Penalty Clause
 - 12 Taxes
- F. Proposal Response Format**
- G. BECIL Obligation**

SECTION II. TECHNICAL REQUIREMENT

- A. Bill of Material**
- B. Technical Specifications**

SECTION III. ENCLOSURES

- A. Eligibility Performa - I
- B. Eligibility Performa - II
- C. Checklist
- D. Annexure – 'A'

SECTION I

GENERAL INFORMATION & INSTRUCTIONS TO BIDDERS

CONTENTS

- A. RFP SCHEDULE AND CRITICAL DATES
- B. INTENT OF THE REQUEST FOR PROPOSAL
- C. PROCEDURE TERMS AND GENERAL CONDITIONS
- D. ELIGIBILITY CRITERIA
- E. COMMERCIAL TERMS AND CONDITIONS
- F. PROPOSAL RESPONSE FORMAT
- G. BECIL OBLIGATIONS

A. RFP SCHEDULE AND CRITICAL DATES

The RFP tentative schedule and critical dates are shown below:

	ACTIVITY	SCHEDULED DATE & TIME
1.	RFP Issue to Prospective Bidders	11 th September 2019
2.	Pre Bid Meeting	1600 hours on 23 rd September 2019
3.	Venue for Pre Bid Meeting	BECIL Bhawan, C-56-A/17, Sector -62, Noida – 201 307.
4.	Date and Time for Submission of bids	Upto 1600 hours on 3 rd October 2019
5.	Address for Submission of bids	BECIL Bhawan, C-56-A/17, Sector -62, Noida – 201 307.
6.	Date and Time for Opening of Technical Bids	1630 hours on 3 rd October 2019
7.	Venue for Opening of Technical Bids	BECIL Bhawan, C-56-A/17, Sector -62, Noida – 201 307.
8.	Evaluation of Technical bids	To be intimated
9.	Date and Time for Opening of Financial Bids	To be intimated
10.	Venue for Opening of Financial Bids	To be intimated
11.	Evaluation of Financial bids	To be intimated
12.	Award of Work Order	To be intimated

Broadcast Engineering Consultants India Ltd. reserves the right to amend the RFP tentative schedule and critical dates. Original tender document against a fee of Rs. 1000/- (Rupees One Thousand only) can be purchased from the address given as under:

BECIL BHAWAN,

C-56- A/17, Sector -62,

Noida 201 307

Tel. No. 0120 - 4177850

till 3rd October 2019 before 1500 hours

The tender document can also be downloaded from our website www.becil.com and a Demand draft of Rs. 1,000/- (Rupees One Thousand only) must be submitted alongwith the bid otherwise the bid will be rejected.

Demand Draft should be in favour of “Broadcast Engineering Consultants India Limited” payable at New Delhi.

No tender document will be issued after the last date as mentioned above.

B. INTENT OF THE REQUEST FOR PROPOSAL

Broadcast Engineering Consultants India Limited (BECIL) has been engaged by Indian National Science Academy (INSA) as Turnkey Solution partner for Installation of CCTV surveillance system for security of building of the Academy at INSA.

INSA is a professional scientific body under the Department of Science and Technology, Government of India and the office of the Academy is located at Bahadur Shah Zafar Marg, New Delhi – 110002.

The intent of this RFP is Supply, Installation, Testing and Commissioning of CCTV surveillance in the buildings and campus of INSA as per the technical specifications of components of the CCTV surveillance system recommended for Government buildings by the Ministry of Home Affairs.

C. PROCEDURE TERMS AND GENERAL CONDITIONS

1. The proposal is to be submitted in TWO BID SYSTEM with separate Technical and Financial bid under separate sealed covers.

2. TWO BID SYSTEM

All bidders are required to submit their offer in two covers as under:-

2.1 First Cover (Technical Bid) should contain the following:-

- (i) Tender documents duly completed and signed BUT WITHOUT INDICATING THE RATE QUOTED.
- (ii) The details of the offer alongwith the supporting documents.

2.2 Second Cover (Financial Bid) should contain the following:-

- (i) Details of rate, taxes, duties, discount, if any, quoted by the bidder. These details should be submitted on their letter head.

Both the above mentioned cover should be sealed separately and therefore be kept in a third cover and sealed again.

This cover should also be superscribed with:

“Bid for SITC of CCTV Surveillance Set up at INSA, New Delhi” with due dates against tender enquiry No. BECIL/PROJ./VPS/CCTV/INSA/2019 dated 11th September 2019 so as to reach us on or before 1600 hrs on 3rd October 2019.

The words “TECHNICAL BID” should be written clearly and prominently on the First cover alongwith tender no. and date of opening. Similarly, the words “FINANCE BID” should be written clearly and prominently on the second cover alongwith Tender No. and date of opening.

3. Bid Responses must be addressed to and *submitted in Tender box placed at Reception area* at the following address:

**The Chairman & Managing Director
Broadcast Engineering Consultants India Ltd,**

C-56 A/17, Sector -62, Noida 201 307,
Tel: 0120-4177850, Fax: 0120-4177879

4. The Bids, both technical and the financial, should reach the office of BECIL, on the above address, not later than 1600 hrs on 3rd October 2019. Bids received beyond the specified date will be rejected. It is the responsibility of the Bidder to confirm that the bids have been received on time & to the proper place within the specified dates. Facsimile and electronic replies are not acceptable.
5. All bids are to remain valid for **six months** from the date of opening of financial bid.
6. BECIL reserves the right to solicit additional information from Bidders to evaluate which bid best meets the need of the Project. Additional information may include, but is not limited to, past performance records, lists of available items of work will be done simultaneously with the project, on-site visit and evaluations by BECIL personnel, or any other pertinent information. It will be vendor's responsibility to check for updated information on BECIL's web site www.becil.com.
7. **Clarification regarding contents of the RFP.** A prospective bidder who requires clarification regarding the contents of the bidding documents shall notify to the undersigned in writing about the clarifications before Pre-bid meeting. Additional questions should be submitted in writing to the RFP Coordinator addressed to

Mr. V.P. Singh
General Manager
Broadcast Engineering Consultants India Ltd,
C-56 A/17, Sector -62, Noida 201 307
Tel: 0120-4177850
Fax: 0120-4177879
Mobile No. 9818666817
e-mail: vpsingh@becil.com

Alternate Mobile No. : Ms. Preeti Chaudhary,Dy. Manager,8130190448
e-mail id: preeti.chaudhary@becil.com

8. BECIL will make its decision based on the ability of the Bidder(s) to meet our specific needs, technical expertise of the Bidder(s), delivery capabilities, customer references, past satisfactory performance experience, is must besides cost.
9. BECIL reserves the right to waive off any deviations, accept the whole or part thereof or reject any or all bids and to select the Bidder(s) which, in the sole opinion of the Project incharge, best meets the project's interest. BECIL also reserves the right to negotiate with potential bidders so that its best interest to fulfill the need of project is served.
10. BECIL reserves the right to reject any and all proposals, to negotiate all terms of any agreement resulting from this request for proposal, and to request additional information from vendors.
11. All information contained in this RFP, or provided in subsequent discussions or disclosures, is proprietary and confidential. No information may be shared with any other organization, including potential sub-contractors, without prior written consent of the RFP Coordinator.
12. In case Company goes into liquidation or change in business/management, it will be intimated to BECIL & company will fulfill its commitment in case order is awarded to them.

13. Indemnification:

Bidder agrees to indemnify BECIL from any and all claims, demands, losses, cause of action, damage, lawsuits, judgments, including attorneys' fees and costs, arising out of or relating to the execution of contract.

14. Arbitration:

Any dispute or difference or claim arising out of or in relation to this contract, including the construction, validity, performance or breach thereof, shall be settled or decided by arbitration to be conducted by CMD, BECIL or by any other person to be nominated by CMD, BECIL. Arbitration shall be conducted as per Arbitration & Conciliation Act, 1996. The seat of the arbitration shall be at New Delhi.

15. Jurisdiction

This Agreement shall be construed, interpreted and applied in accordance with, and shall be governed by, the laws applicable in India. The courts at Delhi shall have the exclusive jurisdiction to entertain any matter arising out of or in relation to this Agreement.

D. ELIGIBILITY CRITERIA

1. For Purchase of Tender document, bidder will have to pay a Tender fee of Rs. 1,000/- (Rupees One Thousand only) in the form of Demand draft in favour of Broadcast Engineering Consultants India Ltd. payable at New Delhi.
2. EMD amount of Rs. 1,00,000/- (Rupees One lakhs only) should be paid only in form of Demand Draft (No other mode of payment will be accepted) draft in favour of Broadcast Engineering Consultants India Ltd. payable at New Delhi.
3. The Bidder should submit documentary proof such as copy of Purchase order / completion certificate for work executed of similar type in past three year not less than Rs. 54 lacs.
4. The bidder should be registered under Indian Company Act 1956. A copy of registration certificate should be submitted.
5. The bidder is required to submit following documents:
 - a) Copy of PAN No.
 - b) Copy of TAN No.
 - c) Copy of GST No.

And in case any document is not submitted, bid shall stand rejected.

6. The details as per the pre-qualification Performa I & II attached at '**Section III – A and B**' respectively shall be furnished and included as part of the technical bid.
7. The Bidder should be a financially sound company and should provide the audited balance sheet with Annexure for last three Financial Years.
8. Copy of the tender document duly signed and stamped by the bidder in support of having read, understood and complied with the requirements of the tender document.

9. Preliminary evaluation

- (i) BECIL shall evaluate the proposals to determine that they are complete, technically complying, no computational errors have been made, required documents as mentioned in the RFP have been furnished, the documents have been properly signed and the response is generally in order.
- (ii) Arithmetical errors shall be rectified on the following basis. If there is a discrepancy between amount quoted in words and figures, the amount in words shall be taken for evaluation.
- (iii) BECIL may waive any minor infirmity or non-conformity or irregularity in the proposal which does not constitute a material deviation, provided such waiver does not prejudice or affect the relative ranking of any bidder.

10. Criterion for evaluation of bid response:

- (i) The evaluation of the tenders will be made first on the basis of technical information furnished and then on the basis of commercial information furnished in bid.
- (ii) The Commercial bids of only technically qualified bidders will be opened on a date communicated to bidders.
- (iii) The reasons for selection or rejection of a particular response will not be disclosed. The award of order will be further subject to any specific terms and conditions of the contract given in this section.

E. COMMERCIAL TERMS AND CONDITIONS

Each bidder is required to accept the following terms and conditions:-

1.	Earnest Money Deposit	:	<p>Each bidder is required to submit Earnest Money Deposit of Value Rs. 1,00,000/- (Rupees One lakh only). EMD should be in the form of Demand draft from scheduled bank in favor of “Broadcast Engineering Consultants India Limited payable at New Delhi” and it will not be accepted in any other form. Bid without EMD will not be accepted. No interest is payable on EMD amount.</p> <p><i>EMD is not required to be submitted by those bidders who are registered for the same item/range of products/goods or services with the Central Purchase Organisation, National Small Industries Corporation (NSIC), or any Department of BECIL or BECIL itself. Bidders are requested to append a photocopy of their current valid Registration letter for the same item/ range of products, goods or services for which the tenders have been issued with for our verification and records; failing which the offer will not merit consideration for further processing.</i></p>
2.	Prices	:	<p>The Prices should be quoted in Indian Rupees only and prices should be FOR site at INSA, Bahadur Shah Zafar Marg, New Delhi – 110002.</p> <p>The prices and all applicable taxes should strictly be mentioned as per format given in Table 1 at Point F of Section I of this RFP.</p> <p>In case, taxes are not mentioned in Financial bid, prices shall be considered inclusive of taxes.</p>

3.	Payment Terms for INR	:	<p>(i) 70 % payment of the total order value shall be released on delivery of material at site.</p> <p>(ii) 20% payment of the total order value shall be released after Installation, Testing and Commissioning of equipment at site on certification by Project Manager, BECIL.</p> <p>(iii) 10% payment of total order value shall be made against submission of the PBG (as mentioned in clause 9 of Commercial Terms and Conditions) in favor of Broadcast Engineering Consultants India Limited payable at NEW DELHI – 110001 after completion of work duly certified by BECIL/INSA.</p> <p>(iv) GST amount would be on hold and released against submission of undertaking regarding payment of GST/ Filing of GST Return (as per Annexure-A), copy of challan/tax deposit slip and copy of GSTR3B.</p> <p>(v) Payment shall be on back –to-back basis.</p>
4.	Consignee	:	The equipment/products should be consigned to INSA C/o Project Manager, BECIL.
5.	Invoice	:	Tax invoice should be raised in the name of Indian National Science Academy, New Delhi through Broadcast Engineering Consultants India Limited, Delhi.
6.	Delivery schedule and Commissioning	:	<p>1.The equipment/product should be delivered at site within 8 weeks from the date of issue of order.</p> <p>2. Installation, Testing, Commissioning and training of staff should be completed within 4 weeks of delivery of material at site.</p>

7.	Packing	:	The material should be securely packed to withstand transit hazards during different modes of transportation.
8.	Guarantee/Warranty	:	All equipment and works shall be under warranty for period of 18 months from the date of supply of all equipment or 12 months from date of completion of project, whichever is later and defects, if any, as reported shall be attended to without any charges, whatsoever.
9.	Performance Bank Guarantee	:	<p>(i) The successful bidder shall have to furnish a Performance bank guarantee (PBG) in favor of Broadcast Engineering Consultants India Ltd, 14-B, Ring Road IP Estate, New Delhi – 110002 for an amount equal to 10% of order value and valid till the period of warranty/guarantee within 15 days of release of Work order.</p> <p>(ii) The PBG is to be valid for the entire defect liability period.</p> <p>(iii) No interest is payable on PBG.</p> <p>(iv) PBG will be realized by BECIL in case of termination of the contract for un-satisfactory performance and/or non-performance of the contract</p>
10.	Late Delivery	:	In case of late delivery of equipment/product, the supplier shall be liable to pay penalty @ 0.5 % of the item cost delivered late per week of delay or a part thereof, upto a maximum amount of 5% of the delayed equipment/product, after which the order is liable to be cancelled.
11.	Penalty Clause	:	In case the equipment/product supplied is not as per RFP, the contractor will have to pay a penalty @5% of total value of product/equipment.

12.	Taxes	:	<p>(i) TDS as applicable will be deducted from the bills.</p> <p>(ii) GST amount claimed by the agency in the invoices will be on hold till the same reflects in the GST portal. The amount will be processed after the submission of undertaking by the agency including proof of payment/challan and GSTR-3B.</p> <p>Format of undertaking is enclosed at Annexure A</p>
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F. PROPOSAL RESPONSE FORMAT

All the bidders are requested to use the same or similar format as given below while submitting the commercial bids. The proposal must be submitted strictly in the following fashion as in Table 1.

1. The proposal shall be submitted in the same envelope at the same time, in two distinct parts: a Technical Proposal and a commercial Proposal.
2. Proposals are to be prepared on standard A4 size paper. Manuals and other reference documentation may be bound separately. All responses, as well as any reference materials presented must be written in English.
3. Proposals must respond to the RFP requirements by restating the number and text of the requirement in sequence and writing the response immediately after the requirement statement.
4. Figures and tables must be numbered and referenced in the text by that number. They should be placed as close to possible to the referencing text. Pages must be numbered consecutively within each section of the proposal showing proposal section and page number.

5. The RFP includes official response to pre-proposal conference questions, addenda, and any other material published by the BECIL pursuant the RFP. The bidder is to disregard any previous draft materials and any oral representations it may have received. All responses to the requirements in Sections (list appropriate section) of this RFP must clearly state whether the proposal will satisfy the referenced requirements, and the manner in which the requirement will be satisfied.
6. Copy of the tender document duly signed and stamped by the bidder in support of having read, understood and complied with the requirements of the tender document.
7. The proposal must be submitted strictly in the following fashion as in Table 1.

TABLE-1

S.No	Description	Make/ Model	Qty	Unit Price In INR	Total Price In INR	Taxes	Final Price in INR including Taxes
GRAND TOTAL							

G. BECIL OBLIGATIONS

BECIL reserves the right to accept any bid, reject any or all bids and to annul the bidding process at any time prior to the award of the contract without thereby incurring any liability to the affected bidder/bidders or any obligations to inform to the affected bidder/bidders of the grounds for BECIL's action.

SECTION II

TECHNICAL REQUIREMENT

CONTENTS

A. BILL OF MATERIAL

B. TECHNICAL SPECIFICATIONS

A. BILL OF MATERIAL

S. No	Description	Make/ Model	Qty	Unit Price in INR	Total Price in INR	Taxes	Final Price in INR including Taxes
I.	EQUIPMENT						
1	32 Channel NVR 4 SATA Make : Panasonic/Tyco/ Honeywell or similar		2				
2	2MP 33X PTZ camera Make : Panasonic,Tyco, Honeywell or similar		3				
3	5MP WDR Starlight Vandal-resistant Network IR Fixed Dome Camera Make : Panasonic,Tyco, Honeywell or similar		12				
4	5MP WDR StarlightMiniFixed Bullet Network Camera Make : Panasonic,Tyco, Honeywell or similar		19				
5	CAT 6 ARMOURED CABLE		5000 mtr.				
6	POWER CABLE 02 PAIR ARMOURED		1200 mtr.				
7	PVC PIPE 25 MM		3000 mtr.				

8	WATER PIPE HDPE 1.5 INCH		700 mtr.				
9	16 PORT POE SWITCH		3				
10	08 PORT POE SWITCH		3				
11	4U RACK		5				
12	12 U RACK		1				
13	POLE GI 15 FEET 03 INCH		3				
14	49" LED TV Make: LG, Sony, Samsung or similar		2				
15	2 KVA ½ hour backup UPS FOR NVR Make : Socomec, Consul, Delta or similar		1				
16	Installation & Commissioning of the complete System		1				
	Grand Total						
II.	AMC OF EQUIPMENT						
1.	AMC of all the equipment for next 5 years after completion of Guarantee/ warranty period						

Note: It is mandatory to quote for each and every item of Bill of Material.
However, AMC of equipment may or may not be included in final calculation.

B. TECHNICAL SPECIFICATIONS

32 Channel NVR 4 SATA	
System	
Main Processor	Intel Dual-core Processor
Operating System	Embedded LINUX
Video& Audio	
IP Camera Input	32 Channel
Two-way Talk	1 Channel Input, 1 Channel Output, RCA
Display	
Interface	2 HDMI (up to 3840x2160, Different Source), 1 VGA
Resolution	3840×2160, 1920×1080, 1280×1024, 1280×720, 1024×768
Display Split	1st Screen: 1/4/8/9/16/25/36, 2nd Screen: 1/4/8/9/16
OSD	Camera title, Time, Video loss, Camera lock, Motion detection, Recording
Recording	
Compression	H.265/H.264/MJPEG
Resolution	12Mp/8Mp/6Mp/5Mp/4Mp/3Mp/1080P/ 720P/ D1&etc.
Record Rate	384 Mbps
Bit Rate	16Kbps ~ 20Mbps Per Channel
Record Mode	Manual, Schedule (Regular, MD (Motion Detection), Alarm, IVS), Holiday, Stop
Record Interval	1 ~ 120 min (default: 60 min), Pre-record: 1 ~ 30 sec, Post-record: 10 ~ 300 sec

Video Detection & Alarm	
Trigger Events	Recording, PTZ, Tour, Alarm Out, Video Push, Email, FTP, Snapshot, Buzzer & Screen tips
Video Detection	Motion Detection, MD Zones: 396(22×18), Video Loss and Tampering
Alarm Input	16 Channel, Low Level Effective, Green Terminal Interface
Relay Output	8 Channel, NO/NC Programmable, Green Terminal Interface
Tracking Trigger Event	Zoom, Tracking, Recording, Preset, Snapshot, Alarm, etc.
Playback & Backup	
Sync Playback	128 Mbps in Raid 5 Mode; 64 Mbps in single HDD Mode
Search Mode	Time/Date, Alarm, MD & Exact search (accurate to second)
Playback Function	Play, Pause, Stop, Rewind, Fast play, Slow play, Next file, Previous file, Next camera, Previous camera, Full screen, Repeat, Shuffle, Backup selection, Digital zoom
Backup Mode	USB Device/Network/eSATA Device
Network	
Interface	2 RJ-45 ports (10/100/1000Mbps), 2 Ethernet Ports Joint Working or 2 Independent 1000Mbps Ethernet Ports
Network Function	HTTP, TCP/IP, IPv4/IPv6, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE, DDNS, FTP, Alarm Server, P2P, IP Search, ONVIF 2.4, CGI Conformant
Max. User Access	128 users
Smart Phone	iPhone, iPad, Android
Storage	
Internal HDD	8 SATA III ports, up to 8TB Each
HDD Mode	Single, Raid 0/1/5/6/10
Auxiliary Interface	
USB	4 USB Ports (2 USB 2.0 , 2 USB 3.0)
eSATA	1 eSATA port

Rs232	1 Port, for PC Communication and Keyboard
Rs485	1 Port, for PTZ Control
General	
Power Supply	AC100V ~ 240V, 50 ~ 60 Hz
Power Consumption	<20W (Without HDD)
Working Environment	-10°C ~+55°C/10%~90%RH
Dimension(W×D×H)	2U, 440mm x 451.08mm x 94.85mm
Weight	9kg (without HDD)

2MP 33X PTZ camera	
Camera	
Image sensor	Approx. 1/2.8 type CMOS image sensor
Minimum illumination	0.13 lx / F1.6 (Color), 0 lx / F1.6 (IR on), 0.005 lx / F1.6 (BW)
Gain	Auto/ Manual
Back light compensation	OFF / BLC/ HLC/ WDR
Shutter speed	Auto/ Shutter Priority/ Aperture Priority/ Manual, 1/1 sec~1/30000 sec
Day / Night	Auto(ICR) / Color / Black & White/ Photoresistor
IR LED Light	Irradiation distance: 150 m {approx. 492 ft}
White Balance (W/B)	Auto/ Manual/ ATW/ Outdoor/ Indoor/ Outdoor Auto/ Sodium Lamp auto, Sodium Lamp
Digital Noise Reduction(DNR)	Ultra DNR (2D/3D) ON/ OFF
Privacy masking	Up to 24 areas
Video Motion Detection(VMD)	Off/ On (4 Zone, Rectangle)

Tampering Detection	On/Off
Lens	
Focal length / Zoom ratio	4.5 mm - 135 mm {3/16 inches ~ 5-5/16 inches}/ 30x optical zoom
Angular field of view	H : 2.4 ° (TELE) – 60 ° (WIDE) V : 1.8 ° (TELE) – 36 ° (WIDE)
Pan and tilt	
Pan/tilt range	Pan:360°endless, Tilt:-15°~-90°
Preset	300
PTZ mode	5 Pattern, 8 Tour, 5 Auto Scan
Network	
Network	10BASE-T/ 100BASE-TX, RJ45 connector
Resolution	1920x1080 / 1280x960 / 1280x720 / 640x480 / 640x360 / 320x240
Image compression method	H.265/ H.264/ MJPEG
Frame rate	1080P (1~50/60 fps)/ 1.3M (1~25/30 fps) /720P(1~25/30 fps)
Protocol	IPv4/ IPv6, HTTP, HTTPS, SSL, TCP/ IP, UDP, UPnP, ICMP, IGMP, SNMP, RTSP, RTCP, RTP, SMTP, NTP, DHCP, DNS, DDNS, FTP, QoS, 802.1x, Multicast
Maximum concurrent access number	20 users (Number of sessions that can connect to cameras at the same time)
Compatible memory card:*1 *2	micro SDXC/SDHC Memory card 4 to 128 GB
Audio compression	G.711u / G.726 / AAC
I/O port	Alarm Input 2 channel / Output 1 channel
General	
Power source	24 V AC, PoE plus

Power consumption	24 V AC: 3 A (50/ 60Hz) PoE+ 54 V DC: 450 mA (Class 4 device)
Ambient operating temperature / Humidity	-30 °C to +55 °C {-22 °F to 131 °F} 10 % to 90 % (no condensation)
Water and dust resistance	Main body: IP66
Dimensions	Ø186 mm(W) × 310 mm(H) { Ø 7-5/16 (W) × 1ft 7/32 (H) inches}
Weight (approx.)	Approx. 3.9 kg {8.6 lbs}

5MP WDR Starlight Vandal-resistant Network IR Fixed Dome Camera

Camera	Image Sensor	1/2.8 type CMOS image sensor
	Minimum Illumination	Color : 0.07 lx, BW : 0.04 lx (F1.3, Maximum shutter : Off (1/30s), AGC : 11) BW : 0 lx (F1.3, Maximum shutter : Off (1/30 s), AGC : 11, when the IR LED is lit) Color : 0.0044 lx, BW : 0.003 lx (F1.3, Maximum shutter : max. 16/30s, AGC : 11) *1
	Shutter Speed	1/30 Fix to 1/10000 Fix *1/30 Fix to 2/120 Fix is available during 30 fps mode only.
	Dynamic Range	Max 120 dB (Super Dynamic: On, Level: 30 or more, 15 fps) *2
Lens	Zoom Ratio	3.1x Optical (Motorized zoom / Motorized focus)
	Digital (electronic) zoom	Choose from 3 levels of x1, x2, x4
	Focal length	2.9 - 9 mm {1/8 inches - 11/32 inches}
Browser GUI	Camera Control	Brightness, AUX On / Off

Network	Network IF	10Base-T / 100Base-TX, RJ45 connector
	Resolution H.265/ H.264 JPEG (MJPEG)	• 16 : 9 mode 3072 x 1728*4 / 2560 x 1440 / 1920 x 1080 / 1280 x 720 / 640 x 360 / 320 x 180
		• 4 : 3 mode 3072 x 2304*4 / 2560 x 1920 / 1280 x 960 / 800 x 600 / VGA / 400 x 300 / QVGA
	Smart Coding	GOP (Group of pictures) control : On (Frame rate control)* / On (Advanced)* / On (Low) / On (Mid) / Off *On (Frame rate control) and On (Advanced) are only available with H.265. Auto VIQS : On / Off
	Audio Compression	G.726 (ADPCM) : 16 kbps / 32 kbps G.711 : 64 kbps AAC-LC*6 : 64 kbps / 96 kbps / 128 kbps
	Supported Protocol	IPv6 : TCP/IP, UDP/IP, HTTP, HTTPS, RTP, FTP, SMTP, DNS, NTP, SNMP, DHCPv6, MLD, ICMP, ARP, IEEE 802.1X, DiffServ IPv4 : TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP, SMTP, DHCP, DNS, DDNS, NTP, SNMP, UPnP, IGMP, ICMP, ARP, IEEE 802.1X, DiffServ
	SDXC/SDHC/SD Memory Card	H.265 / H.264 recording : Manual REC / Alarm REC (Pre/Post) / Schedule REC / Backup upon network failure JPEG recording : Manual REC / Alarm REC (Pre/Post) / Backup upon network failure Compatible SDXC/SDHC/SD Memory Card: 2 GB, 4 GB*, 8 GB*, 16 GB*, 32 GB*, 64 GB**, 128 GB**, 256 GB** model *SDHC card, ** SDXC card (except miniSD card and microSD card)

Alarm	Alarm Source	3 terminals input, VMD alarm, Command alarm
Input/ Output	Monitor Output (for adjustment)	VBS : 1.0 V [p-p] / 75 K, composite, ø3.5 mm mini jack An NTSC or PAL signal can be outputted from camera
	Audio Input	ø3.5 mm stereo mini jack
	Audio Output	ø3.5 mm stereo mini jack (monaural output) Output impedance : Approx. 600 K (unbalanced) Output level : -20 dBV
General	Safety	UL (UL60950-1), c-UL (CSA C22.2 No.60950-1), CE, IEC60950-1
	Power Source and Power Consumption	DC power supply : DC12 V 840 mA/ Approx. 10.2 W PoE (IEEE802.3af compliant) Device : DC48 V 220 mA/ Approx. 10.6 W (Class 0 device)
	Ambient Operating Temperature	-40 °C to +60 °C (-40 °F to 140 °F)*7 (Power On range : -30 °C to +60 °C {-22 °F to 140 °F})
	Ambient Operating Humidity	10 to 100 % (no condensation)
	Water and Dust Resistance	IP66 (IEC60529), Type 4X(UL50), NEMA 4X compliant
	Shock Resistance	50J (IEC 60068-2-75 compliant), IK10 (IEC 62262)
	Dimensions *When using base bracket	When using base bracket : ø164 mm × 139 mm (H) {ø6-15/32 inches × 5-15/32 inches (H)} Dome radius 42 mm {1-21/32 inches} When using attachment plate only : ø154 mm × 103 mm (H) {ø6-1/16 inches × 4-1/16 inches (H)} Dome radius 42 mm {1-21/32 inches}
	Mass *When using base bracket	When using base bracket : Approx. 1.6 kg {3.53 lbs} When using attachment plate only : Approx. 1.2 kg {2.65 lbs}

	Finish	Main body : Aluminum die cast, Light gray Outer fixing screws : Stainless steel (Corrosion-resistant treatment) Dome cover : Polycarbonate resin, Clear
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5MP WDR Starlight Mini Fixed Bullet Network Camera		
Camera	Image Sensor	1/2.8 type CMOS image sensor
	Minimum Illumination	Color : 0.07 lx, BW : 0.04 lx (F1.3, Maximum shutter : Off (1/30s), AGC : 11) BW : 0 lx (F1.3, Maximum shutter : Off (1/30 s), AGC : 11, when the IR LED is lit) Color : 0.0044 lx, BW : 0.003 lx (F1.3, Maximum shutter : max. 16/30s, AGC : 11) *1
	Shutter Speed	1/30 Fix to 1/10000 Fix
	Dynamic Range	Max 120 dB (Super Dynamic : On, Level : 30 or more, 15 fps) *2
Lens	Zoom Ratio	3.1x Optical (Motorized zoom / Motorized focus)
	Digital (electronic) zoom	Choose from 3 levels of x1, x2, x4
	Focal length	2.9 - 9 mm {1/8 inches - 11/32 inches}
Browser GUI	Camera Control	Brightness, AUX On / Off

Network	Network IF	10Base-T / 100Base-TX, RJ45 connector
	Resolution H.265/ H.264 JPEG (MJPEG)	<p>•16 : 9 mode 3072 x 1728*4 / 2560 x 1440 / 1920 x 1080 / 1280 x 720 / 640 x 360 / 320 x 180</p>
		<p>•4 : 3 mode 3072 x 2304*4 / 2560 x 1920 / 1280 x 960 / 800 x 600 / VGA / 400 x 300 / QVGA</p>
Network	Smart Coding	<p>GOP (Group of pictures) control : On (Frame rate control)* / On (Advanced)* / On (Low) / On (Mid) / Off *On (Frame rate control) and On (Advanced) are only available with H.265. Auto VIQS : On / Off</p>
	Audio Compression	<p>G.726 (ADPCM) : 16 kbps / 32 kbps G.711 : 64 kbps AAC-LC*6 : 64 kbps / 96 kbps / 128 kbps</p>
	Supported Protocol	<p>IPv6 : TCP/IP, UDP/IP, HTTP, HTTPS, RTP, FTP, SMTP, DNS, NTP, SNMP, DHCPv6, MLD, ICMP, ARP, IEEE 802.1X, DiffServ IPv4 : TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP, SMTP, DHCP, DNS, DDNS, NTP, SNMP, UPnP, IGMP, ICMP, ARP, IEEE 802.1X, DiffServ</p>

	SDXC/SDHC/SD Memory Card	H.265 / H.264 recording : Manual REC / Alarm REC (Pre/Post) / Schedule REC / Backup upon network failure JPEG recording : Manual REC / Alarm REC (Pre/Post) / Backup upon network failure Compatible SDXC/SDHC/SD Memory Card : 2 GB, 4 GB*, 8 GB*, 16 GB*, 32 GB*, 64 GB**, 128 GB**, 256 GB** model *SDHC card, ** SDXC card (except miniSD card and microSD card)
Alarm	Alarm Source	3 terminals input, VMD alarm, Command alarm
Input/ Output	Monitor Output (for adjustment)	VBS : 1.0 V [p-p] / 75 K, composite, Pin jack An NTSC or PAL signal can be outputted from camera
	Audio Output	ø3.5 mm stereo mini jack (monaural output) Output impedance : Approx. 600 K (unbalanced) Output level : -20 dBV
	External I/O Terminals	ALARM IN 1(Alarm input 1/ Black & white input/ Auto time adjustment input) (x1), ALARM IN 2 (Alarm input 2/ ALARM OUT) (x1), ALARM IN 3 (Alarm input 3/ AUX OUT) (x1)
General	Safety	UL (UL60950-1), c-UL (CSA C22.2 No.60950-1), CE, IEC60950-1
	Power Source and Power Consumption	DC power supply : DC12 V 810 mA/ Approx. 9.8 W PoE (IEEE802.3af compliant) Device : DC48 V 210 mA, Approx. 10.1 W (Class 0 device)
	Ambient Operating Temperature	-40 °C to +60 °C (-40 °F to 140 °F)*7 (Power On range : -30 °C to +60 °C {-22 °F to +140 °F})
	Ambient Operating Humidity	10 to 100 % (no condensation)

Water and Dust Resistance	IP66 (IEC60529), Type 4X (UL50), NEMA 4X compliant
Shock Resistance	IK10 (IEC 62262)
Dimensions *With adapter box	With adapter box : 133 mm (W) x 133 mm (H) x 377 mm (L) {5-1/4 inches(W) x 5-1/4 inches(H) x 14-27/32 inches(L)} Without adapter box : 130 mm (W) x 130 mm (H) x 337 mm (L) {5-1/8 inches(W) x 5-1/8 inches(H) x 13-9/32 inches(L)}
Mass *With adapter box	With adapter box : 2.1 kg {4.63 lbs} Without adapter box : 1.6 kg {3.53 lbs}
Finish	Main body : Aluminum die cast and resin, Metallic silver Outer fixing screws : Stainless steel (Corrosion-resistant treatment) Front panel : Polycarbonate resin, Clear

SECTION III

ENCLOSURES

CONTENT

- A. ELIGIBILITY PROFORMA-I
- B. ELIGIBILITY PROFORMA – II
- C. CHECKLIST
- D. ANNEXURE – ‘A’

A.

ELIGIBILITY - PROFORMA-I

**PARTICULARS OF THE SET DESIGNER TO BE FURNISHED FOR THE PURPOSE OF
ELIGIBILITY**

1.	Name of company	
2.	Office Address /Telephone No / Fax No / email id / website	
3.	Year of establishment	
4.	Status of the Company	
5.	Name of Directors	i) ii) iii)
6.	Names of principle person concerned with this work with title and Telephone No / Fax/ Email Id, Etc.	
7.	Whether registered with the registrar of companies /registrar of firms. If so, mention number and date.	i) ii) iii)
8.	In case of change of Name of the Firm, former Name / Names and year/ years of establishment:	
9.	Whether registered for sales tax purposes. If so, mention number and date. Furnish also copies of sales tax clearance certificate.	
10.	Whether an assessee of income tax. If so, mention permanent account number. Furnish copies of income tax clearance certificate.	
11	State Annual turnover of the company Furnish copies of audited balance sheet and profit & loss account (audited) for the last three years.	

12	Particulars and place of similar type of works done in a single order. (Furnish details in a separate sheet and enclose copy of the employers certificate)	
13	Specify the maximum value of single work executed in the past three years.	
14	Status and details of disputes/ litigation/ arbitration, if any.	

Place:

Date:

Signature of the Bidder

B. ELIGIBILITY PROFORMA - II

PARTICULARS IN RESPECT OF 3 SIMILAR WORKS EXECUTED IN LAST 3 YEARS

S.No	Name of work and project with address	Short Description of work executed	Name and address owner	Value of work executed

Place:

Date:

Signature of the Bidder

C. CHECK LIST

Please ensure that following documents should be enclosed alongwith the bid proposal

1. Go through the tender documents very carefully and thoroughly.
2. Prepare separate technical and commercial bids.
3. Ensure submission of required documents and details alongwith technical bid. The documents to be enclosed are:-
 - (i) Proof of submission of Tender fee of Rs. 1000/-
 - (ii) Submission of EMD of Rs. 1,00,000/- or EMD exemption certificate.
 - (iii) Activity wise work schedule.
 - (iv) Copy of the registration certificate under Indian Company Act.
 - (v) Duly filled in pre-qualification Proforma (i) & (ii) as enclosed in tender document.
 - (vi) Copy of the tender document duly signed and stamped by the bidder in support of having read, understood and complied with the requirements of the tender document.
 - (vii) Details of similar works executed alongwith approximate value of the projects in chronological order.
 - (viii) Any other details and information of relevance in support of past experiences of the bidder.
 - (ix) Detailed bill of material duly filled in giving the offered services etc strictly as per the bill of material included in the tender document.
4. No cost details are to be included in the technical bid under any circumstances. The signed and stamped copies of the technical bid containing requisite documents are to be sealed in separate envelope and marked appropriately.
5. The Financial bid shall contain exactly similar offered bill of services included in the technical bid but with full details on the rates, total cost. Only one copy of financial bid duly signed and stamped is to be sealed in a separate envelope and marked accordingly.

6. Both technical & financial bids in respective sealed envelopes are to be further sealed in an envelope and marked “**BID for SITC of CCTV surveillance system set up at INSA,,New Delhi**” with due dates against tender enquiry no BECIL/PROJ./VPS/CCTV/INSA/2019 dated 11th September 2019.

7. The tender should be submitted in Tender Box placed at Reception Area at below address

**The Chairman & Managing Director
Broadcast Engineering Consultants India Ltd,
C-56 A/17, Sector -62, Noida 201 307
Tel: 0120-4177850
Fax: 0120-4177879**

and the delivery of the same must be ensured at this office before 1600 hours on 3rd October 2019.

D. ANNEXURE- 'A'

ANNEXURE-A

Date

To,

Broadcast Engineering Consultants India Limited
14-B, I. P. Estate, Ring Road
New Delhi-110002

Kind attn.: Shri Awadesh Pandit, DGM (F&A)

Subject: Undertaking regarding Payment of GST/ Filing of GST Return

Dear Sir,

This is in connection to the works awarded by M/s Broadcast Engineering Consultants India Limited (BECIL), we hereby undertake that we will comply with Goods and Services Tax 2017 and Various Rules Relating to GST Act, 2017(herein after referred to as GST Act and Rules) wherever we are obliged to comply with the GST Act and GST Rules.

We further hereby undertake that we will issue proper **“Tax Invoice”** and/or any other Relevant Document as required under GST Act and Rules. We will furnish appropriate GST return and pay GST as required under GST Act and Rules on timely basis and will provide GST credit on timely basis through GST Portal (and/or by any other means as provided by GST Act and Rules).

We hereby certify & undertake that we will not alter, delete or modify the invoices and other details uploaded at GST Portal unless approved by BECIL in writing.

We also hereby certify & undertake that we indemnify BECIL on account of any loss of GST input credit as well as any interest, penalty, demands or other costs, expenses suffered by BECIL because of any failure on our part to file appropriate Return on time and/or pay Tax to Government/Appropriate Authority.

In case we do not make payment the tax/interest/penalty/other expenses etc. on demand raised by Government/Tax Authorities due to default/delay on our part/action, we also authorize BECIL to forfeit/deduct from security held by BECIL, equivalent amount of interest/penalty/tax etc. for the amount so withheld.

Yours faithfully

For,

Signature of Authorized Signatory on behalf of
Agency

Place: _____

Date: _____

Address: _____

Mobile: _____

Email ID: _____



Ref No.:

Date:

TO WHOM SO EVER IT MAY CONCERN

It is to certify that the Rs. _____/- paid for the GST for
_____. The detail of invoice with payment of GST as below :

Sr. No.	BECIL Bill No. /Date	Basic Value of Invoice (Excluding Tax)	GST Amount	Total - including Tax (Rs.)	Total Tax Paid	Challan No. /Date
I	II	III	IV	V (III+IV)		
1			-	-	-	
2			-	-	-	
3			-	-	-	
4			-	-	-	
5			-	-	-	
6			-	-	-	
7			-	-	-	
			-	-	-	
	Total (Rs.)	-	-	-	-	

Director / Proprietor

Place: _____

Date: _____

Address: _____

Mobile: _____

Email ID: _____

