



Osmania University
University with Potential for Excellence (UPE)

ADDENDUM TO TENDER DOCUMENT

Tender Notification No: 211/DIS/OU/2016/CCTV

ADDENDUM NO. 1 dated 20-Apr-2016

FOR

A

IP BASED HD CCTV SURVEILLANCE SYSTEM

AT

OSMANIA UNIVERSITY CAMPUS

MAIN ROAD, HYDERABAD – 500 007

TELANGANA STATE

AMENDMENTS (NEW ADDITIONS)

#	Reference to RFP	Original version in RFP	Amended to the Section/Clause
1	Page No. 22; Section 6.3 (h) – General Terms & Conditions	The Authority provides the raw power source; the Applicant's responsibility should connect the cameras and other equipment from the nearest power source. The material and equipment needed to connect the power source and stability of the power such as surge, spikes etc., is in the scope of Applicant. However, UPS should be planned in the scope of the Applicant at every location.	Refer to section 13.2 – BOQ for CCTV System at OU Campus for UPS Quantity
2	Page No. 31; Section 6.31 – Project Completion	The successful Applicant shall submit the detailed project plan along with major milestone dates to the Authority within 15 days from the date of signing the contract. The major milestones are define below and should be part of the project plan as: i) Project Start Date (Not later than 15 th day from the date of signing the contract ii) Completion of System Installation Date – The complete system installed including at control room and ready for initial testing iii) Final Acceptance Test (FAT) – Readiness for the Authority testing & Acceptance iv) Project Completion Date – This include Go-Live, complete documentation, Training and Stabilization start date. This should be within 120 days from the seventh date of singing of the contract. v) The Operations and Maintenance (O&M) start would be after completion of the project closure process. vi) Project Closure – 30 days from the Project Completion date for system stabilization and smooth functioning of the system; Final documentation submission; Training where required; Handover of the complete system and artifacts to the Authority; on-boarding technical & support engineers for O&M.	The successful Applicant shall submit the detailed project plan along with major milestone dates to the Authority within 15 days from the date of signing the contract. The major milestones are define below and should be part of the project plan as: i) Project Start Date (Not later than 15 th day from the date of signing the contract ii) Supply of 100% Material as per BOQ – Not later than 60 days from the date of Project Start Date iii) Completion of System Installation Date – The complete system installed including at control room and ready for FAT – Not later than 150 days from the project start date. iv) Final Acceptance Test (FAT) completion – Not later than 10 days from the date of completion of system installation. v) Project Completion Date - This include Go-Live, complete documentation, Training and Stabilization period. This should be not earlier than 30 days from the FAT completion. vi) Project Closure – 10 days from the Project Completion date for system stabilization and smooth functioning of the system; Final documentation submission; Training where required; Handover of the complete system and artifacts to the Authority; on-boarding technical & support engineers for O&M. vii) The Operations and Maintenance (O&M) start would be after completion of the project closure process. NOTE: This definition of project milestones overrides with any conflicting references in other parts of the RFP and Addendum document. This will be taken as reference to have complete understanding of the sections/clauses.
3	Page No. 35; Section 6.37 – Liquidated Damages	If the successful Applicant fails to meet the milestone date of completion as per project/milestone plan, the Authority shall without any prejudice to its other remedies, deduct liquidated damagesas below: a) 1% of the contract value of the project/milestone late delivered or deemed late delivered for one week or part thereof from the agreed completion date b) 1.5% for Two weeks or part thereof c) 2% for Three weeks or part thereof d) 2.5% for 4 weeks or part thereof and so on e) Max. 10% of the contract value of the project late delivery or deemed late delivered However, the Authority reserves the right to review the project beyond one week of delay, as deemed necessary the project may be cancelled at no cost to the Authority.	If the successful Applicant fails to meet the milestone date of completion as per project/milestone plan, the Authority shall without any prejudice to its other remedies, deduct liquidated damagesas below: a) 1% of the contract value of the project/milestone late delivered or deemed late delivered for one week or part thereof from the agreed completion date b) 1.5% of contract value for Two weeks or part thereof c) 2% of contract value for Three weeks or part thereof d) 2.5% of contract value for 4 weeks or part thereof and so on e) Max. 10% of the contract value of the project late delivery or deemed late delivered However, the Authority reserves the right to review the project beyond one week of delay, as deemed necessary the project may be cancelled at no cost to the Authority. Note: The definition of milestone date of completion is the Acceptance of the complete system by the Authority duly installed and commissioned the complete project.
4	Page No. 35; 6.38 – Arbitration	Any Dispute which is not resolved amicably by conciliation between the Parties, shall be finally decided by reference to arbitration by an Arbitral Tribunal appointed in accordance with Clause 6.36 (ii). Such arbitration shall be held in accordance with the Rules of Arbitration of the International Centre of Alternative Dispute Resolution, New Delhi (the "Rules"), or such other rules as may be mutually agreed by the Parties, and shall be subjected to the provisions of the Arbitration and Conciliation Act, 1996. The venue of such arbitration shall be at Hyderabad and the language of arbitration proceedings shall be English. There shall be an Arbitral Tribunal of the three arbitrators, of whom each Party shall select one, and the third arbitrator shall be appointed by the two arbitrators so selected; and in the event of disagreement between the two arbitrators, the appointment shall be made in accordance with the Rules. The arbitrators shall make a reasoned award (the "Award"). Any Award made in any arbitration held pursuant to the clause shall be final and binding on the Parties as from the date it is made, and the Applicant and the Authority agree and undertake to carry out such Award without delay. The Applicant and the Authority agree than an Award may be enforced against the Applicant and/or the Authority, as the case may be, and their respective assets wherever situated. This Agreement and the rights and obligations of the Parties shall remain in full force and effect, pending the Award in any arbitration proceedings as Signed, Sealed and Delivered in the presence of witnesses.	i) Any Dispute which is not resolved amicably by conciliation between the Parties, shall be finally decided by reference to arbitration by an Arbitral Tribunal appointed in accordance with Clause 6.38 (ii). Such arbitration shall be held in accordance with the Rules of Arbitration of the International Centre of Alternative Dispute Resolution, New Delhi (the "Rules"), or such other rules as may be mutually agreed by the Parties, and shall be subjected to the provisions of the Arbitration and Conciliation Act, 1996. The venue of such arbitration shall be at Hyderabad and the language of arbitration proceedings shall be English. ii) There shall be an Arbitral Tribunal of the three arbitrators, of whom each Party shall select one, and the third arbitrator shall be appointed by the two arbitrators so selected; and in the event of disagreement between the two arbitrators, the appointment shall be made in accordance with the Rules. iii) The arbitrators shall make a reasoned award (the "Award"). Any Award made in any arbitration held pursuant to the clause shall be final and binding on the Parties as from the date it is made, and the Applicant and the Authority agree and undertake to carry out such Award without delay. iv) The Applicant and the Authority agree than an Award may be enforced against the Applicant and/or the Authority, as the case may be, and their respective assets wherever situated. v) This Agreement and the rights and obligations of the Parties shall remain in full force and effect, pending the Award in any arbitration proceedings as Signed, Sealed and Delivered in the presence of witnesses.
5	6.39 – Limitation of	New Section Added in the Addendum	6.39Limitation of Liability

	Liability		<p>i) The successful Applicant's liability under the Agreement shall be determined as per the Applicable Law in force for the time being. The successful Applicant shall be liable to the Authority for loss or damage occurred or caused or likely to occur on account of any act of omission on the part of the successful Applicant and its employees, including loss caused to Authority on account of defect in Goods or deficiency in Services on the part of System Integrator or its agents or any person / persons claiming through or under said successful Applicant. However, such liability of successful Applicant shall not exceed 100% of the total contract value of the Agreement.</p> <p>ii) Except as otherwise provided herein, in no event shall either party be liable for any consequential, incidental, indirect, special or punitive damage, loss or expenses (including but not limited to business interruption, lost business, lost profits, or lost savings) nor for any third party claims, even if it has been advised of their possible existence.</p> <p>iii) This limitation of liability provided in Clause 6.39 (i) and Clause 6.39 (ii) shall not limit the successful Applicant's liability for the indemnity obligations of the System Integrator as agreed in this Agreement.</p>
6	14.9 – Video Management Software (VMS)	New Section Added in the Addendum	<p>14.9 Video Management Software</p> <p>i) VMS Overview</p> <ul style="list-style-type: none"> • VMS shall be used for centralized management of all field camera devices, video servers and client users. • VMS server shall be deployed in a clustered server environment for high availability and failover. • VMS shall support a flexible rule-based system driven by schedules and events. • VMS shall be supported for fully distributed solution for monitoring and control function, designed for limitless multi-site and multiple server installations requiring 24/7 surveillance with support for devices from different vendors. • VMS shall support ONVIF Profile S & G compliant internet protocol (IP) cameras. • The bidder shall clearly list in their proposal the make and models that can be integrated with the VMS, additionally all the offered VMS and cameras must have Open Network Video Interface Forum (ONVIF Profile S & G) compliance. • VMS shall be enabled for any standard storage technologies and video wall system integration. • VMS shall be enabled for integration with any external Video Analytics Systems. • VMS shall be capable of being deployed in a virtualized server environment without loss of any functionality. • All CCTV cameras locations shall be overlaid in graphical map in the VMS Graphical User Interface (GUI). The cameras selection for viewing shall be possible via clicking on the camera location on the graphical map. The graphical map shall be of high resolution enabling operator to zoom-in for specific location while selecting a camera for viewing. • VMS shall have an administrator interface to set system parameters, manage codecs, manage permissions and manage storage. • VMS day to day control of cameras and monitoring on client workstations shall be controlled through the administrator interface. • Whilst live control and monitoring is the primary activity of the monitoring workstations, video replay shall also be accommodated on the GUI for general review and also for pre- and post-alarm recording display. • The solution design for the VMS shall provide flexible video signal compression, display, storage and retrieval. • All CCTV camera video signal inputs to the system shall be provided to various command control center(s), viewing center etc., and the transmission medium used shall best suit the relative camera deployments and access to the CCTV Network. • VMS client shall have the capability to work with touch enabled multi-monitor workstations. It shall be capable of displaying videos in up to three (3) monitors simultaneously. • VMS shall be capable of transferring recorded images to recordable media (such as CD/DVD and/or tapes) in tamper evident and auditable form. All standard formats shall be supported including, but not limited to AVI, M-JPEG, MPEG-4 files. • The VMS shall support field sensor settings. Each channel configured in the VMS shall have an individual setup for the following settings, the specific settings shall be determined according to the encoding device: <ul style="list-style-type: none"> • Brightness; Contrast; Color; Sharpness; Saturation; Hue; White balance • The VMS shall support the following operations: <ul style="list-style-type: none"> ○ Adding an IP device ○ Updating an IP device ○ Updating basic device parameters ○ Adding/removing channels ○ Adding/removing output signals ○ Updating an IP channel ○ Removing an IP device ○ Enabling/disabling an IP channel ○ Refreshing an IP device (in case of firmware upgrade) ○ Multicast at multiple aggregation points • The VMS shall support retrieving data from edge storage. Thus when a lost or broken connection is restored, it shall be possible to retrieve the video from SD card and store it on central storage. • The VMS shall support bookmarking the videos. Thus, allowing the users to mark incidents on live and/or playback video streams.

			<ul style="list-style-type: none">• The VMS shall allow the administrator to distribute camera load across multiple recorders and be able shift the cameras from one recorder to another by simple drag and drop facility.• VMS shall support automatic failover for recording.• VMS shall support manual failover for maintenance purpose.• VMS shall support access and view of cameras and views on a smartphone or a tablet (a mobile device).• VMS shall support integration with the ANPR application.• VMS shall support integration with other online and offline video analytic applications.• VMS shall be able to accept alerts from video analytics built into the cameras, other third party systems, sensors etc.• VMS should support Remote web client; Mobile client; Matrix monitor• All the systems proposed and operationalization of VMS should comply with requirements of IT Acts
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10.A PRE-QUALIFICATION EVALUATION (NEW ADDED)

The pre-qualification evaluation criteria broadly based as per the table below:

#	Parameter	Max. Points	Evaluation Criteria
A	FUNCTIONAL CAPABILITIES OF THE APPLICANT		
1	Overall Turnover	5	<ul style="list-style-type: none"> • > 50 Cr. – 5 pts • > 40 & <= 50 Cr. – 4 pts • > 30 & <= 40 Cr. – 3 pts • >15 & <= 30 Cr. – 2 pts
2	Net Profit	5	<ul style="list-style-type: none"> • > 4 Cr. – 5 pts • > 2 Cr. & <= 4 Cr. – 4 pts • > 1 Cr & <= 2 Cr. – 3 pts • >= 50 Lacs & <= 1 Cr. – 2 pts
3	Experience of the IP based HD CCTV Projects implemented with a total number of cameras by the Applicant	10	<ul style="list-style-type: none"> • > 500 cameras – 10 pts • > 300 & <= 500 cams – 8 pts • > 200 & <= 300 cams – 6 pts • >= 150 & <= 200 cams – 2 pts
4	Experience of the IP based HD CCTV Projects implemented outdoor / city environment with a number of cameras by the Applicant	10	<ul style="list-style-type: none"> • > 300 cameras – 10 pts • > 200 & <= 300 cams – 8 pts • > 100 & <= 200 cams – 6 pts • >= 50 & 100 cams – 2 pts
5	Experience in managing data centers / control centers with number of racks	5	<ul style="list-style-type: none"> • > 3 racks – 5 pts • > 1 & <= 3 racks – 3 pts • 1 rack – 1 pts
6	Quality and Completeness of the documentation	5	<ul style="list-style-type: none"> • Excellent – 5 pts • Very Good – 4 pts • Good – 3 pts • Average & Below – 1 pt
B	FUNCTIONAL CAPABILITIES OF THE CONSORTIUM PARTNER		
7	Overall Turnover	5	<ul style="list-style-type: none"> • > 3.5 Cr. – 5 pts • > 2.5 & <= 3.5 Cr. – 4 pts • >1.5 & <= 2.5 Cr. – 3 pts • >= 1 Cr. & <= 1.5 Cr – 2 pts
8	Net Profit	5	<ul style="list-style-type: none"> • > 2 Cr. – 5 pts • > 1 Cr & <= 2 Cr. – 4 pts • > 50 Lacs & <= 1 Cr. – 3 pts • > 0 & <= 50 Lacs – 2 pts
	TOTAL MAXIMUM SCORE	50	

NOTE: The Applicant should score minimum of 70% (35 points) to qualify for the Technical Qualification Phase to perform the Technical Demo/POC. The Applicant shall be rejected and disqualified if it does not meet the minimum points of 70% (35 points) for eligibility in the Pre-Qualification Phase.

10. TECHNICAL EVALUATION (REVISED)

The Applicant should demonstrate the technical capabilities by fixing the pre-defined CCTV system with proper design and process to showcase the functions and features. The technical demonstration should be executed by one or more technical staff as defined in the proposal. The technical evaluation broadly based as per the table below:

#	Parameter	Max. Points	Technical Compliance Evaluation Criteria
A	TECHNICAL PROPOSAL EVALUATION		
1	Edge Level Components (Cameras, Switches, UPS, etc.,)	10	<ul style="list-style-type: none"> • 100% specs compliant – 10 pts • $\geq 90\%$ & $< 100\%$ compliant – 8 pts • $\geq 75\%$ & $< 90\%$ compliant – 6 pts • $\geq 60\%$ & $< 75\%$ compliant – 4 pts • $\geq 50\%$ & $< 60\%$ compliant – 2 pts
2	Core Level Components (Cameras, Switches, UPS, etc.,)	10	<ul style="list-style-type: none"> • 100% specs compliant – 10 pts • $\geq 90\%$ & $< 100\%$ compliant – 8 pts • $\geq 75\%$ & $< 90\%$ compliant – 6 pts • $\geq 60\%$ & $< 75\%$ compliant – 4 pts • $\geq 50\%$ & $< 60\%$ compliant – 2 pts
3	Accuracy of Bill of Material / Bill of Quantity based on its completeness	5	<ul style="list-style-type: none"> • 100% material scope covered in terms of Items, specs & quantity – 5 pts Points would be downgraded based on the deviations accordingly
4	Technical Demo / Proof-of-Concept	75	As per the evaluation criteria Evaluation Criteria would be provided to the Applicant at the time of opening the Technical Bid.
	TOTAL MAXIMUM SCORE	100	

NOTE: The Applicant should score minimum of 70% (70 points) to qualify for the Financial Bid Opening in the Technical Evaluation Phase. The Applicant shall be rejected and disqualified if it does not meet the minimum points of 70% (70 points) for eligibility in the Technical Phase.

13.2. PRICED BILL-OF-QUANTITY (BOQ) FOR CCTV SYSTEM AT OU CAMPUS (REVISED)

#	Item Description	Unit	Qty	Make	Model No.	Base Rate	Item Amount (INR)	Tax %	Tax Amount (INR)	Total Amount (INR)	
1	Fixed Box/Bullet Outdoor Camera	Nos	164								
2	Fixed Dome Indoor Camera	Nos	428								
3	IP Outdoor PTZ Dome Full HD Camera	Nos	6								
4	High quality external microphone	Nos	45								
5	Servers (App + Database + Storage + Gateway) **	Set	1								
6	Storage Disks (Min. 1.2 Petabyte) with controllers **										
7	Application Software – VMS & others **										
8	24 P L3 Layered Manageable core switch in Data center	Nos	2								
9	24 P L3 Layered Manageable network switch at aggregation points with SFP module	Nos	4								
10	4 UTP + 2 Fiber Port PoE Edge L2 Switch (IG) + SFP module Industrial Grade (outdoor)	Nos	70								
11	8 UTP + 2 Fiber Port PoE Edge L2 Switch (IG) + SFP module for Indoor	Nos	70								
11	4 UTP port + SFP Module for Indoor	Nos	45								
12	24 Port UTP Patch Panel loaded	Nos	5								
13	42" LED Monitors / Video Wall at Data Center with Controller	Nos	35								
14	42" LED Monitors at Heads of offices / colleges	Nos	10								
15	Workstations with 8 GB RAM + 1 TB HDD + 2 GB NVIDIA graphic card at Data Center / CC&C	Nos	20								
16	Workstations with 8 GB RAM + 2 GB NVIDIA graphic card at Offices / Colleges	Nos	10								
17	Junction Box at Camera Locations	Nos.	600								
18	Rack 42U at Control Room / Data Center	Nos	4								
19	UPS 20KVA with auto switchover in case of failover for redundancy at Control Room with 1 hr backup and 2 sets of batteries for 3 years	Nos	2								
19	UPS 1 KVA at critical camera locations with 2 hours backup	Nos	60								
20	Optical Fiber Single mode 12 Core	Mtr	14000								
21	Optical Fiber Single mode 48 core	Mtr	50000								
21	Cat6 Cable (305 mtr Box) for indoor	Box	175								
22	Cat 5 Armored Cable for outdoor	Mtr	1000								
23	UTP Patch Cords Max. 2 Mtrs	Nos	500								
24	I/O UTP Box	Nos	100								
25	LIU Fully loaded with Pigtails; Adaptors, OFC patch cords 12/24 ports (as per site conditions)	Set	250								
26	40mm HDPE Pipe for Fiber Laying underground (including Last Mile Distance)	Mtr	20000								
27	GI Pipe	Mtr	250								
28	PVC Conduits	Mtr	10000								
29	3C x 2.5 Sq mm Armored Power cable	Mtr	5000								
30	6 Mtr Pole with Cantilever	Nos	75								
31	Underground Fiber Cabling Laying Charges for Road / Hard surface cutting and HDPE pipe laying	Mtr	14000								
32	Underground Fiber Cabling Laying Charges through existing HDPE pipe	Mtr	50000								
33	Any additional components required (mention with details)										
A	SUB TOTAL - SUPPLY										
34	Installation & Commission Charges incl swatch bharat tax	Lums um / %									
B	SUB TOTAL - CCTV SYSTEM										
C	GRAND TOTAL										

NOTE:

- The quantity and Item scope are suggestive; however the Applicant should provide the exact scope & quantity based on their Site survey as part of the proposal.
- The Applicant should submit the design of customized items/activities such as Control Room layout, Junction Box etc., to the Authority for the approval prior to deploying at the site.
- Every component should have the details and the unit rate is applicable includes 5-year on-site comprehensive warranty period.
- The actual quantity deviation is allowed not more than ± 15%.
- The Applicants should clearly indicate applicable taxes and duties separately for each item/component, which they propose to charge. Offers with such stipulations like "As Applicable" will be treated as vague and are liable to be ignored.
- Any additional items or components required for the system that were not mentioned above should be included by the bidder under "Additional Components" and its details such as Make/Model, Quantity, Specifications etc.,
- ** - The Applicant is expected to carry out the Server, Storage with appropriate NAS box equipment, VMS & other Application software requirement estimation and supply as per the solution proposed. They may also refer to the bandwidth estimation as provided in the document. The Applicant may supply the storage in modular manner during the implementation.
- The 2 nos of UPS 20 KVA with auto switchover is required for redundancy in case of any failover. The Applicant should consider in the design for implementation.
- The priced BOM/BOQ should be submitted along with the commercial proposal only.

13.2.A UNPRICED BILL-OF-QUANTITY (BOQ) FOR CCTV SYSTEM AT OU CAMPUS (NEW ADDED)

#	Item Description	Unit	Qty	Make	Model No.	Remarks
1	Fixed Box/Bullet Outdoor Camera	Nos	164			
2	Fixed Dome Indoor Camera	Nos	428			
3	IP Outdoor PTZ Dome Full HD Camera	Nos	6			
4	High quality external microphone	Nos	45			
5	Servers (App + Database + Storage + Gateway) **	Set	1			
6	Storage Disks (Min. 1.2 Petabyte) with controllers **					
7	Application Software – VMS & others **					
8	24 P L3 Layered Manageable core switch in Data center	Nos	2			
9	24 P L3 Layered Manageable network switch at aggregation points with SFP module	Nos	4			
10	4 UTP + 2 Fiber Port PoE Edge L2 Switch (IG) + SFP module Industrial Grade (outdoor)	Nos	70			
11	8 UTP + 2 Fiber Port PoE Edge L2 Switch (IG) + SFP module for Indoor	Nos	70			
11	4 UTP port + SFP Module for Indoor	Nos	45			
12	24 Port UTP Patch Panel loaded	Nos	5			
13	42" LED Monitors / Video Wall at Data Center with Controller	Nos	35			
14	42" LED Monitors at Heads of offices / colleges	Nos	10			
15	Workstations with 8 GB RAM + 1 TB HDD + 2 GB NVIDIA graphic card at Data Center / CC&C	Nos	20			
16	Workstations with 8 GB RAM + 2 GB NVIDIA graphic card at Offices / Colleges	Nos	10			
17	Junction Box at Camera Locations	Nos.	600			
18	Rack 42U at Control Room / Data Center	Nos	4			
19	UPS 20KVA auto switchover in case of failover for redundancy at Control Room with 1 hr backup and 2 sets of batteries for 3 years	Nos	2			
19	UPS 1 KVA at critical camera locations with 2 hours backup	Nos	60			
20	Optical Fiber Single mode 12 Core	Mtr	14000			
21	Optical Fiber Single mode 48 core	Mtr	50000			
21	Cat6 Cable (305 mtr Box) for indoor	Box	175			
22	Cat 5 Armored Cable for outdoor	Mtr	1000			
23	UTP Patch Cords Max. 2 Mtrs	Nos	500			
24	I/O UTP Box	Nos	100			
25	LIU Fully loaded with Pigtails; Adaptors, OFC patch cords 12/24 ports (as per site conditions)	Set	250			
26	40mm HDPE Pipe for Fiber Laying underground (including Last Mile Distance)	Mtr	20000			
27	GI Pipe	Mtr	250			
28	PVC Conduits	Mtr	10000			
29	3C x 2.5 Sq mm Armored Power cable	Mtr	5000			
30	6 Mtr Pole with Cantilever	Nos	75			
31	Underground Fiber Cabling Laying Charges for Road / Hard surface cutting and HDPE pipe laying	Mtr	14000			
32	Underground Fiber Cabling Laying Charges through existing HDPE pipe	Mtr	50000			
33	Any additional components required (mention with details)					

The unpriced BOM/BOQ should be submitted with Technical Bid Proposal Only.