

**Corrigendum in Technical Specifications for SUPPLY,INSTALLATION,TESTING,  
COMMISSIONING & CAMC OF CCTV SYSTEM**

**SECTION 7**

**TECHNICAL BID – TECHNICAL SPECIFICATIONS**

Name of Work: SELECTION OF FIRM FOR SUPPLY,INSTALLATION,TESTING, COMMISSIONING & CAMC OF CCTV SYSTEM IN RAJASTHAN

Sr. No	Description	Specifications	Compliance Yes/ No	Remarks
<b>1</b>	<b>Sub-head A : (Supply)</b>			
<b>1</b>	<b>4MP IP IR Bullet</b>			
	<b>Make</b>			
	<b>Model</b>			
1	Type of Camera	Bullet		
2	Image Sensor	1/2.8" or 1/3" progressive Scan CMOS		
3	Signal System	PAL/NTSC		
4	Resolution & frame rate	2560(H)x1440(V), 25Fps (2560x1440)		
5	Minimum Illumination	0.01Lux@ F1.2, AGC ON,, 0 lux with IR, (Wide, 50IRE, 5600K with 80% reflection ratio, AGC on) or better		
6	Imaging	1/3s to 1/100000s, Auto Gain Control , White Balance- Auto (2000K to 10000K), Back Light Compensation, Multi zone Privacy Masking, HLC, Digital defog		
7	Signal to Noise Ratio	50 dB or more		
8	Auto Iris	DC Drive		

9	Lens Type	4 MP IR 2.8/3.6/4/6/8/12 MM fixed Lens		
10	Focus	Fixed		
11	Day & Night	True Day & Night High Performance Mechanical IR cut filter with auto switch, IR Source- Inbuilt Smart IR LED's with effective distance 50 Mtr or better		
12	IR Life	40000 Hours		
13	Video Compression (Minimum)	H.265		
14	Video Bit Rate	32KBPS- 8 MBPS or better		
15	Wide Dynamic Range	WDR (100db or more)		
16	Digital Noise Reduction	DNR (2D+3D) On/Off		
17	Streaming	TRIPLE		
18	Heartbeat Image	Camera should support hourly heartbeat image on ftp server.		
19	Image Setting	Rotate Mode, saturation, brightness, contrast, sharpness adjustable through client software or web browser		
20	Profile Management	User configuration import, export		
21	Onboard Storage	Camera should support built in Micro SD/SDHC/SDXC Card slot and should be supplied with class 10 Micro SD/SDHC/SDXC Card of 64 GB or better.		
22	Recording Management	Format SD, overwrite, storage management, video to NAS device, remote archive access via FTP login		
23	Alarm Trigger	Motion detection, Camera Tampering alarm, IP address conflict, storage full, storage error.		
	<b>Network Compatibility</b>			

24	Network Protocol	TCP/IP/ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, Upnp, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, Bonjour, IPv4		
25	User Access	5 User Simultaneously or more		
26	System Capability	Onvif		
27	VMS(ONVIFcertified)	Camera shall support open source VMS. Software supplied should support the De-Coupled mode of operation which means that the even in case of failure of central server, the camera recording should not be impacted. The VMS software and cameras may be from the same OEM.		
28	Ethernet	IEEE 802.1X, 1RJ 45 10/100 Ethernet port		
29	Power Input	Standard DC Jack		
30	Power Requirement	12VDC +- 10%		
31	Power Consumption	Max 9 W		
32	Enclosure	IP67 weather proof, IK10, Metallic body		
33	Operating Condition	-10°C to 60°C, humidity 95% (max) (non-condensing)		
34	Standards	BIS,CE, FCC, RoHS, UL/EN/IS Certified		
35		Cage for camera protection from monkey etc.		
<b>Sr. No</b>	<b>Description</b>	<b>Specifications</b>	<b>Compliance Yes/ No</b>	<b>Remarks</b>
<b>2</b>	<b>4MP IP IR Dome</b>			
	<b>Make</b>			
	<b>Model</b>			

1	Type of Camera	Dome		
2	Image Sensor	1/2.8" or 1/3" progressive Scan CMOS		
3	Signal System	PAL/NTSC		
4	Resolution & frame rate	2560(H)x1440(V), 25Fps (2560x1440)		
5	Minimum Illumination	0.01Lux@ F1.2, AGC ON,, 0 lux with IR, (Wide, 50IRE, 5600K with 80% reflection ratio, AGC on) or better		
6	Imaging	1/3s to 1/100000s, Auto Gain Control , White Balance- Auto (2000K to 10000K), Back Light Compensation, Multi zone Privacy Masking, HLC, Digital defog		
7	Signal to Noise Ratio	50 dB or more		
8	Auto Iris	DC Drive		
9	Lens Type	4 MP IR 2.8/3.6/4/6/8/12 MM fixed Lens		
10	Focus	Fixed		
11	Day & Night	True Day & Night High Performance Mechanical IR cut filter with auto switch, IR Source- Inbuilt Smart IR LED's with effective distance 30 Mtr or better		
12	IR Life	40000 Hours		
13	Video Compression (Minimum)	H.265		
14	Video Bit Rate	32KBPS- 8 MBPS or better		
15	Wide Dynamic Range	WDR (100db or more)		
16	Digital Noise Reduction	DNR (2D+3D) On/Off		
17	Streaming	TRIPLE		
18	Heartbeat Image	Camera should support hourly heartbeat image on ftp server.		
19	Image Setting	Rotate Mode, saturation, brightness, contrast, sharpness adjustable through		

		client software or web browser		
20	Profile Management	User configuration import, export		
21	Onboard Storage	Camera should support built in Micro SD/SDHC/SDXC Card slot and should be supplied with class 10 Micro SD/SDHC/SDXC Card of 64 GB or better.		
22	Recording Management	Format SD, overwrite, storage management, video to NAS device, remote archive access via FTP login		
23	Alarm Trigger	Motion detection, Camera Tampering alarm, IP address conflict, storage full, storage error.		
	<b>Network Compatibility</b>			
24	Network Protocol	TCP/IP/ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, Upnp, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, Bonjour, IPv4		
25	User Access	5 User Simultaneously or more		
26	System Capability	Onvif Certified		
27	VMS(ONVIFcertified)	Camera shall support open source VMS. Software supplied should support the De-Coupled mode of operation which means that the even in case of failure of central server, the camera recording should not be impacted. The VMS software and cameras may be from the same OEM.		
28	Ethernet	IEEE 802.1X, 1RJ 45 10/100 Ethernet port		
29	Power Input	Standard DC Jack		
30	Power Requirement	12VDC +- 10%		
31	Power Consumption	Max 9 W		

32	Enclosure	IP67 weather proof, IK10, Metallic body		
33	Operating Condition	-10°C to 60°C, humidity 95% (max) (non-condensing)		
34	Standards	BIS,CE, FCC, RoHS, UL/EN/IS Certified		
<b>Sr. No</b>	<b>Description</b>	<b>Specifications</b>	<b>Compliance Yes/ No</b>	<b>Remarks</b>
<b>3</b>	<b>4 Channel PoE Network Video Recorder (NVR):</b>			
	<b>Make</b>			
	<b>Model</b>			
1	Network Video Recorder shall provide a live view, storage and playback of minimum 4 IP camera or more and must be ONVIF with minimum support of 40 Mbps incoming Bandwidth			
2	NVR should support H.265, H.264, MJPEG support			
3	It should have 1/4 channel display mode			
4	It should have 100 fps @ 4 MP			
5	Must support Resolution: 1920×1080, 1280×1024, 1280×720, 1024×768			
6	Must support recording resolution upto 6MP			
7	Must support Continuous, Alarm, Motion, Instant, Panic Recording Mode			
8	Must support two way audio			
9	When alarm recording is enabled and an event occurs, you can click the alarm icon on monitoring page to view the alert details. The snapshot function is supported on monitoring and playback page			

10	The Network Video Recorder (NVR) shall be configured to send email whenever a system message is created or an alarm event occurs. The email server shall be a valid SMTP server. Each recipient email address shall be configured to receive any combination of critical, warning, or informational messages or alarm notifications. When an alarm occurs, the email message includes the NVR name, time of alarm and a list of camera that is configured to record upon alarm		
11	It should support Network Support: HTTP, TCP/IP, SMTP, DHCP, DNS, DDNS, FTP, NTP, UPnP, Multi IP Setting. Convert multiple recording files to one avi file.		
12	Intelligent auto power on when power resumes after power outage		
13	Storage	Must have be compatable to connect 1 No. surveillance HDD upto 6 TB	
14	Connectivity Interface :	1x 10/100 Base-T Lan Port with 4x 10/100 Base-T PoE Ports (IEEE802.3at/af) for Camera connectivity and powering through NVR directly.	
15	Backup Interface :	Its should have 1x USB port for backup.	
16		Option for alerts to command centre for power failure, HDD failure, vandalism, tempering, network disconnection and panic.	
17		Mobile app for alerts and viewing	
	<b>NVR Inbuilt Wi-Fi &amp; 4G Features</b>		
18	WiFi Standard	IEEE802.11b, 802.11g, 802.11n	
19	Frequency Range	2.4Ghz - 2.483GHz	

**BOQ**

S.No.	Description of Work	Qty.	Unit	Rate	Amount	Make	Model No.
	<b>SUB HEAD - A (Supply)</b>						
1	Supply of 4MP IP IR Bullet Camera as per specifications i/c all standard accessories.	750	Nos.		-		
2	Supply of 4MP IP IR Dome Camera as per specifications i/c all standard accessories.	250	Nos.				
3	Supply of Outdoor Enclosure (For NVR, 4G Router and UPS etc) as per the specifications fitted with 1x 4 Channel PoE Network Video Recorder (NVR) as per the specifications, 1x 4G Wi-Fi Router Provision for SIM Card as per the specifications, 1x UPS Power Supply (suitable to provide one hour back up for 1 NO. CCTV system comprising 4 No. cameras each of 4 MP IPIR as per RFP specification) as per the specifications etc. <b>(NVR and Camera for samev OEM)</b>	250	Nos.		-		
4	Supply of Surveillance 2 TB Hard Disk Drive as per the specifications	250	Nos.		-		
5	Supply of Cat -6 Armoured cable Shielded Twisted Pair high quality 600 MHz, TIA/EIA and ISO Category 6 as per specifications	30500	Mtr.		-		
6	18.5" LED monitor with HDMI Supported and Wall Mounted Option	250	Nos.		-		
7	SITC Central Health Check Monitoring Software with supported of minimum 1000 Devices	1	Nos.		-		
8	SITC Server with 43" LED Display for Health Check Software for minimum 120 days storage of health check data for total quantity	1	Nos.		-		



	of Cameras.						
9	Video Management Software as per specification	1	Nos.		-		
10	SITC FTP Server with suitable configuration for hourly heartbeat images from Cameras for minimum 7 days storage of heartbeat images for total quantity of Cameras	1	Nos.		-		
11	Supply of Floor Mount Rack 42U as per specifications	1	Nos.		-		
12	Supply of PVC conduit pipe 25mm medium class ISI marked (100 x 250)	25000	Mtr.		-		
13	Supply of PVC conduit pipe 50mm medium class ISI marked (20 x 250)	5000	Mtr.		-		
14	Supply of PVC box with modular plate suitable for 1 No. 5/6 A modular switch and 1 No. 5/6 Ampere modular socket.	250	Nos.		-		
15	Supply of 5/6 A modular switch ISI Mark	250	Nos.		-		
16	Supply of 3 pin 5/6 A modular socket outlet ISI Mark	250	Nos.		-		
17	Supply of 3 pin 5/6 A plug top	250	Nos.		-		
18	Supply of Power Cable 3 Core, Conductor size: 2.5 sq mm, multi strand with standard annealed electrolytic copper conductor suitable for single phase 230V AC supply/ DC supply (20 X 250)	5000	Mtr.		-		
19	Supply of HDPE pipe -32 mm for Underground Cable lying Power as per specifications (40 x 250)	10000	Mtr.		-		
20	Digging & refilling of soft-soil (40 x 250)	10000	Mtrs		-		

21	Supply of RJ 45 connector (20 x 250)	5000	Nos.		-		
2	<b>Sub Head-B (ITC)</b>				-		
2.1	Installation, Testing & Commissioning of 4MP IP IR Bullet / Dome Camera etc as required	1000	Nos.		-		
2.2	Installation, Testing & Commissioning of Out door / Indoor Encloser alongwith all components as per item No.(1.3) of sub head-A (Supply) i/c providing suitable fixing arrangement on pole/ wall/ gate etc as required	250	Nos.		-		
2.3	Installation, Testing & Commissioning of HDD in the existing NVR etc as required	250	Mtr.		-		
2.4	Fixing of Conduit / Flexible etc.. As required	5000	Mtr.		-		
2.4	Laying of all kind of wires/ cables in existing pipe/ on surface / interconnection i/c connections etc as required	35000	Mtr.		-		
2.5	Installation, Testing & Commissioning of RJ 45 connector	1000	Each		-		
2.6	Installation, Testing & Commissioning of Modular PVC box complete with Modular cover plate, Switch, Socket & plug Top i/c connection etc as required.	1	set		-		
2.7	Installation, Testing & Commissioning of Command Centre that includes installation of Server / Rack etc...	1	Job		-		
				<b>Total</b>	-		

**Signature, name and designation of authorized signatory**

**(Page No. 20 of Bid Document)**

**4.35 Instructions for technical Bid:**

Name of Work : Proposal for supply, installation, testing, commissioning and CAMC  
Of CCTV system in all over Rajasthan PSS purchase centres.

Employer's Name : Managing Director, Rajasthan State Cooperative Marketing  
Federation Ltd., Jaipur

S.no.	Item	Details
1	Estimated cost of Work	3.50 crore
2	Amount of Bid security	7.00 lacs
3	Bid document processing Fees	Rs. 1000/-
4	Validity period of contract	One year
5	Date of Downloading of bid documents	From 25.08.2018 to 26.09.2018
6	Last date for uploading bid documents	26.09.2018 up to 3.00 PM
7	Time, date and place of opening of Technical Bid	26.09.2018 at 4:00 PM Rajfed, 4 Bhawani Singh Road, Jaipur
8	Time and date of opening of Financial Bid	28.09.2018 at 3:30 PM
9	Tentative month for releasing work order	October 2018
10	Validity of Bid	After opening Technical Bid up to 90 days.

E-bids shall be accepted only on-line (e-procurement). EMD of Rs. 700000/- along with e-bids form fee of Rs. 1000, in the form of Demand Draft/pay Order in favour of "RAJASTHAN RAJYA SAHAKARI KRAYA VIKRAYA SANGH LTD." Jaipur. and processing Fees Rs. 1000/- in favour of "MD, RISL"jaipur. total 3 demands drafts shall have to be deposited physically in the office of Rajasthan Rajya Sahakari Kraya Vikraya Sangh LTD., 4 Bhawani singh road, Jaipur, up to 02 PM on 26.9.2018 and scanned copies of the 3 demand drafts should also be uploaded with tender documents, if the 3 above DDs were not physically submitted well in time and in proper office as mentioned here, tender/bid shall not be considered and shall be rejected.

Technical Bid and Financial Bid shall be uploaded separately. Financial Bid of Bidder, who qualifies in the Technical Bid would only be downloaded. Unqualified Bidders in the Technical Bid not be considered.