



CLARIFICATION/CORRIGENDUM/ADDENDUM

Subject: Amendment in technical specification of bid document of item CCTV Camera Surveillance System, under No. F-8() RMSC/EPM/M-1/NIB-683/2022-23/249 date: 30.06.2022

In reference to subject cited above NIB-683, various representation received from the firms and issues raised by the bidder are examined by the competent authorities and technical committee. The following clarification/corrigendum/addendum is issued for inclusion in bid document of items as below:-

Revised Technical Specifications of CCTV Camera Surveillance System:-

1. Image Sensor : 2.0 megapixel or above progressive scan CMOS or better
2. Frame Rate : 1920x1080 (1 fps-25/30 fps) or better
3. Resolution : 1920 (H) × 1080 (V) or better
4. Weather proof (For outside and Indoor installation)
5. IP camera for day and night use.
6. IR Range of 30Mtr or better.
7. Minimum Illumination : 0.01Lux or better
8. Weatherproof Standard: IP67
9. White Balance : Auto
10. Lens : 3.6mm lens or better
11. **Day/Night support**
12. Operating Temperature : -10°C to 55°C or better
13. PoE(802.3af)
14. Video Compression : H.264 or better compression
15. Plastic I/O box (outdoor type) for fixing camera on it.
16. Shutter Speed: Auto/ Manual, 1/3~1/100000s
17. Angle of view: 3.6 or better
18. Smart Phone Supported.
19. Channel Network Video Recorder (NVR) :
 1. Video Compression : H.265 or better compression
 2. IP video input : 1-ch Up to 4K resolution(Supports H.265 + /H.265/ H.264 + / H.264 IP cameras) or better
 3. HDMI/VGA output : HDMI output: 4k or better
 4. **VGA output : 1080p or better**
 5. Video bit rate : 32 Kbps to 6 Mbps
 6. Network protocols :IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; SMTP; FTP; DHCP; DNS, NTP; Multicast; ONVIF (Profile S)
 7. Capacity : Up to 6 TB capacity for each disk (2TB hard disk to be provided with system)
 8. Network interface : 1, RJ45 10/100Mbps self-adaptive Ethernet interface
 9. **USB interface: 2 × USB 2.0 or better + 1 Panel.**
 10. Working temperature : -10 °C to +55 °C (+14 °F to +131 °F) or better
 11. NVR solution must be compatible to monitor surveillance via remote viewing using internet connection.

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12. Remote/Mouse to be provided with NVR system for operating.
 13. I/O rack with fan, shelf and PDU to be provided with NVR system.
 14. Audio in/ Output : 1-ch RCA IN and 1-ch RCA Out
 15. **Recording Resolution: 5MP/ 4MP/ 3MP/ 1080p/ UXGA/ 720p/ VGA/ 4CIF/ DCIF/ 2CIF/ CIF/ QCIF**
20. a. Port PoE switch
1. **Port Number: 16x 10/100Mbps PoE+ ports + 2x10/100/1000 MBPS Uplink.**
 2. Standard: IEEE 802.3i, IEEE 802.3u, IEEE 802.3x. IEEE 802.3ab, IEEE 802.3af, IEEE 802.3at
 3. Packet forwarding rate: 5.36 Mbps or better
 4. PoE standard: Port 1 to 16, IEEE 802.3af/ IEEE 802.3at, full duplex Ethernet data link layers
 5. Long Range: port 1 to 16 - transmission distance 250m or better

General Condition:

1. Camera and NVR must be in compliance with CE, FCC and UL/BIS certifications.
2. Camera and NVR should be of same make for better integration
3. CCTV product to be manufactured by a make whose quality system is in compliance with the ISO-9001:2015 and Environmental Management Certificate ISO14001:2004.
4. Demonstration to be given as and when required. Schedule for the same will be informed in advance.
5. 30 meter connecting **CAT 6** cable to operate camera (for power and NVR connection) to be provided with each camera, free of cost.
6. Installation will be provided free of cost.
7. 2TB hard disk to be provided with each NVR.
8. CMS and Mobile Software for surveillance to be provided free of cost.
9. Full HD (1080p) surveillance grade monitor 32" or more with HDMI and VGA port with wall mount stand.
10. Guarantee Period of 3 years.
11. The camera bidder must submit declaration regarding OEM own manufacturing on OEM letter head.
12. Comprehensive Maintenance Service: CMC will be given @ 3 % of net rate excluding GST (as applicable) and yearly escalation of 5 % on last year's CMC price. The CMC may be awarded for five years (on yearly basis) after Guarantee period of 3 years.

Note:- All above mentioned specification are generic in nature, will promote healthy competition & will not encourage Pro- Single Bid participation.

Note:- Please note that all above amendments/corrigendum in technical specifications/bid conditions is the integral part of (Section-VIII) and the bid document. This corrigendum/ addendum should be signed and annexed with bid document. All other terms & conditions remains the same.


Executive Director (EPM)
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