

SITC of Project monitoring CCTV System for Nabinagar Super Thermal Power Project, NSTPP Stage-II (3x800 MW)			
Tender ID - 2026_NTPC_108652_1 ; Tender ref. NTPC/SSC -/9900325917			
<u>Amendment-01</u>			

S.No.	Equipment/SIN/ Parameter	Existing Specification	Revised Specification
1	10.10 PTZ IP Camera / 4/ Focal Length	4.25 to 07 mm -170 to 280 mm or better	3.95 to 07 mm-159 to 280 mm or better
2	10.10 PTZ IP Camera/ 8 /Multiple Streams	Primary Stream: H.264, H.265 @ 50/60 FPS	Primary Stream: H.264, H.265 @ 25/30 FPS
3	10.10 PTZ IP Camera / 9 / Effective Resolution/Number of Pixels	2 MP (1920 x 1080 Full HD) or better at 50/60 FPS	2 MP (1920 x 1080 Full HD) or better at 25/30 FPS
4	10.10 PTZ IP Camera / 11 /IR Range	200 m or better	150 m or better
5	10.10 PTZ IP Camera / 26 /Pan & Tilt Speed	240° /s Pan Speed and 180°/s Tilt Speed	180° /s Pan Speed and 90°/s Tilt Speed

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Clarifications-01

Clause No:	Point No:	Description	Query	NTPC reply
10.40 of Technical Specifications	Point No: 27	The offered equipment must be able to operate in the following environmental conditions - Operating temperature: 0 ° C to 75 ° C	Operating temperature: 0 ° C to 75 ° C, is considered to be the industrial switch. Since this switch mostly used for indoor application, the operating temperature should be 0 ° C to 40 ° C. Hence request to amend the specifications.	environmental conditions - Operating temperature: 0 ° C to 75 ° C its as per standard tech spec of IT. Amendment not required.
6 Warranty & AMC	Point No: 6.1	Further during entire support period, it will be the responsibility of the bidder to maintain and support the system fully and ensure that the level of availability is 98%. The provision of all supplies, spares and services necessary for the maintenance shall be the bidder's responsibility. Cameras will be relocated by the bidder whenever required during the warranty period and AMC.	The pole/ RF Radios will be installed with the permanent structure. Hence relocation of camera & accessories will damage the structure. Hence relocation of the camera, structure, once installed, will be on the chargeable basis.	its already mentioned that cameras & accessories will be relocated, relocation of permanent structure/poles is not required as already mentioned in SOW 3.13 The proposed cameras will be installed on existing structures wherever available, and on dedicated poles where such structures are not available. Supply and erection of poles is under the scope of supplier. Amendment not required.
10.60 Firewall- Technical Specification	Point No: 24	The Firewall should be supplied with OEM support for Five years. This support should cover device fault/ failure.	The support is being asked for 5 years while all other equipment's are with 1+3 years- total of 4 years. Hence request to amend to 4 years.	1+3 years AMC was for all other equipments, five-year OEM support only for specific firewall. Amendment not required.

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Clarifications-01

Item Description	S/N	Existing Parameter	Existing Requirement	Requested / Proposed Changes	NTPC Reply/ Remarks
10.10 PTZ IP Camera	4	Focal Length	4.25 to 7mm – 170 to 280mm or better	Request to revise the lens size specification to 3.95 to 7mm – 159 to 280mm or better, as this is required to achieve 30x optical zoom. This change will facilitate wider participation and enable inclusion of a broader range of quality OEMs and AI analytics solutions in the subject tender.	NTPC has reviewed the vendor's request and agrees to revise the specification as follows: Existing Specification: 4.25 to 7mm – 170 to 280mm or better Revised Specification: 3.95 to 7mm – 159 to 280mm or better
	5	Optical Zoom	40X or better	Request the tendering authority to amend this clause to include 30x optical zoom, which will facilitate wider competition and enable participation from a broader range of qualified OEMs.	The optical zoom requirement is already specified as “30X or better.” Therefore, the tender specification shall remain unchanged.
	8	Multiple Streams	1) Primary Stream: H.264, H.265 @50/60 FPS	It is requested to consider a frame rate of 25 fps as sufficient for providing smooth and clear video output for surveillance and monitoring applications. Most standard PTZ based CCTV surveillance systems operate effectively at 25 fps, which is adequate for subject identification, movement tracking & maintaining good video quality. Further, a frame rate of 50/60 fps offers limited additional benefit for normal security and surveillance applications while significantly increasing storage and network bandwidth requirements. Therefore, 25 fps provides an optimum balance between video performance, bandwidth consumption & storage utilization & is widely accepted as an industry-standard specification for surveillance systems.	NTPC has reviewed the vendor's request and agrees to revise the specification as follows: Existing Specification: Primary Stream: H.264, H.265 @ 50/60 FPS Revised Specification: Primary Stream: H.264, H.265 @ 25/30 FPS

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	9	Effective resolution/ Number of Pixels	2 MP (1920 x 1080 Full HD) or better at 50/60	To make the specification more generic, practical & open to wider competition, it is requested that the tendering authority may kindly consider to amend the specification to 2MP @ 25/30 fps as is sufficient for providing smooth and clear video output for surveillance and monitoring applications. Most standard PTZ based CCTV surveillance systems operate efficiently at 25 fps, which is adequate for subject identification, movement monitoring & maintaining video clarity. Further, operating at 50/60 fps offers minimal additional benefit for normal security and surveillance applications while significantly increasing storage and network bandwidth requirements. Therefore, 25 fps provides an optimum balance between video performance, bandwidth utilization, and storage efficiency & is widely accepted as an industry-standard specification for surveillance systems.	NTPC has reviewed the vendor's request and agrees to revise the specification as follows: Existing Specification: 2 MP (1920 x 1080 Full HD) or better at 50/60 FPS Revised Specification: 2 MP (1920 x 1080 Full HD) or better at 25/30 FPS
	11	IR Range	200 mtr or better	It is requested to amend this clause to IR illumination range as 150 meters. An IR range of 150 meters is adequate for effective night-time surveillance and monitoring in most industrial and security applications. The proposed specification will meet the functional requirements of the system while avoiding unnecessary restrictions on OEM participation. This amendment will enable wider participation from reputed manufacturers, promote fair and healthy competition & provide the end user with a broader range of technically compliant solutions. In view of the above, it is requested that the tendering authority may kindly revise the IR range requirement to 150 meters or higher.	NTPC has reviewed the vendor's request and agrees to revise the specification as follows: Existing Specification: 200 mtr or better Revised Specification: 150 mtr or better

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	26	Pan & Tilt Speed	240°/s Pan Speed and 180°/s Tilt Speed	It is requested to amend this clause to the PTZ camera speed as Pan Speed: 180°/sec and Tilt Speed: 90°/sec. The proposed pan and tilt speeds are adequate for effective surveillance, target tracking & rapid area coverage in industrial and security applications. These specifications are widely available across leading OEMs and are sufficient to meet the operational requirements of PTZ-based surveillance systems. The existing requirement appears to be restrictive and may limit participation from otherwise technically qualified manufacturers. Revising the specification to 180°/sec pan speed and 90°/sec tilt speed will make the tender more generic and practical, encourage wider participation from reputed OEMs & will promote fair and healthy competition without compromising the intended surveillance objectives. In view of the above, it is requested that the tendering authority may kindly amend the clause accordingly.	NTPC has reviewed the vendor's request and agrees to revise the specification as follows: Existing Specification: 240°/s Pan Speed and 180°/s Tilt Speed Revised Specification: 180°/s Pan Speed and 90°/s Tilt Speed

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Clarifications-01

Sr. No.	Reference/Document	Clause/Point	Existing Technical Description	Query/Suggestion	NTPC Reply/Remark
1	Tender_docs Page No.: 370	10.10 PTZ IP Camera- Technical Specification & Compliance Sheet: 8 - Multiple Streams	(1) Primary Stream: H.264, H.265 @50/60 FPS	As per STQC ER-certified products available in the market, the primary stream supports up to 25/30 FPS, this stream support both H.264 and H.265 compression. Therefore, we kindly request you to revise the specification to 25/30 FPS.	NTPC has reviewed the vendor's request and agrees to revise the specification as follows: Existing Specification: Primary Stream: H.264, H.265 @ 50/60 FPS Revised Specification: Primary Stream: H.264, H.265 @ 25/30 FPS
2	Tender_docs Page No.: 371	10.10 PTZ IP Camera- Technical Specification & Compliance Sheet: 29 - Other Features	Inbuilt heater and air circulation system to avoid icing, Electronic Image Stabilization, Defog	The current specification appears to be aligned with a single OEM. We kindly request you to make the specification more generic and vendor-neutral to encourage wider vendor participation, promote healthy competition, and achieve better value through a competitive bidding process. Accordingly, we request you to consider removing the inbuilt heater.	The provision of inbuilt heater and air circulation system has been specified considering long-term outdoor installation, condensation prevention, fogging, moisture ingress protection, and reliable operation under varying environmental conditions. The requirement is generic in nature and not restricted to any particular OEM. The tender specification shall remain unchanged
3	Tender_docs Page No.: 372	10.10 PTZ IP Camera- Technical Specification & Compliance Sheet: 33 - ONVIF compliant	The camera shall conform to ONVIF Profile S, G, T, M or latest (ONVIF approved certificate / ONVIF conformant devices listed on the ONVIF global website as on or before bid submission date). There should be no ONVIF membership restrictions on CCTV OEMs, this means that Camera OEMs can participate in ONVIF committees which include ONVIF new profile development and maintenance. Similarly, OEMs can use new ONVIF tools and software for camera testing. The bidder shall submit a declaration in this regard from the OEM.	ONVIF Profile M is specifically meant for metadata transmission, which requires edge-based analytics support. However, as per STQC certification norms, the products currently available in the market do not support edge-based analytics. So, we request you kindly accept our suggestion and Remove it.	Compliance with ONVIF Profile S, G, T and M (or latest applicable profiles) has been specified to ensure interoperability, future scalability, metadata compatibility, and seamless integration with the surveillance management system. The requirement shall remain unchanged. Bidder shall comply with the tender specification
4	Tender_docs Page No.: 376	10.40 24 Port L2 Ethernet Switch- Technical Specification & Compliance Sheet: 27 - Environmental conditions	The offered equipment must be able to operate in the following environmental conditions - Operating temperature: 0 ° C to 75 ° C	No OEM supports an operating temperature range of 0°C to 75°C. Since this L2 switch will be installed indoors/server rooms, we kindly request you to amend the specification to 0°C to 45°C.	Operating temperature: 0 ° C to 75 ° C its as per standard tech spec of NTPC. The specified operating temperature range has been kept considering industrial-grade reliability and long-term plant requirements. The tender specification shall remain unchanged
5	Tender_docs Page No.: 380	10.60 Firewall-Technical Specification & Compliance Sheet 18 - Power Supply	The equipment should be able to take normal Indian power supply as direct input. (Inbuilt Power Supply)	Specified requirement mentions "Inbuilt Power Supply". We request you to kindly allow OEM-supplied external power adapters/power supplies also, as several leading firewall OEMs provide compact enterprise-grade appliances with external power supplies while meeting all technical and performance requirements.	Inbuilt power supply has been specified to enhance equipment reliability, reduce external accessories, minimize failure points, and facilitate maintenance in critical network infrastructure. The requirement shall remain unchanged. Bidder shall comply with the tender specification.

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6	Tender_docs Page No.: 383	10.70 P2P/P2MP-Technical Specification & Compliance Sheet 13 - Interfaces	1 AC Jack with Earth Ground 1 10/100Mbps Shielded Ethernet Port (Power + Data) 1 10/100Mbps Shielded Ethernet Port (Data)	There is no specific functional requirement for two RJ45 ports in the intended application. Most latest-generation outdoor wireless devices from all OEMs are equipped with a single Ethernet port and fully meet the required performance and functionality. Therefore, we request you to kindly amend the requirement to "Minimum 1 × RJ45 Ethernet Port" to allow wider OEM participation and competition.	The specified configuration ensures enhanced reliability, maintenance flexibility, and EMI immunity for industrial applications. The tender specification shall remain unchanged.
7	Tender_docs Page No.: 393	10.150 HDPE Protection Pipe (32mm/40mm) - Technical Specification & Compliance Sheet 2 - Diameter	32mm / 40mm inner diameter options	NTPC is requested to clarify the required diameter: 32 mm or 40 mm.	Both 32 mm and 40 mm HDPE protection pipes have been specified in the tender. Bidder shall comply with the tender specification and consider supply of any sizes accordingly. The tender specification shall remain unchanged.

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Pg. No.	Sr. No.	Parameter	Requirement	Suggested Changes	NTPC Reply/ Remarks
Pg. No. 13 of 29	4	Focal Length	4.25 to 7mm – 170 to 280mm or better	Request to revise the lens size on the higher side to 159–280 mm (F), which is required for achieving 30x optical zoom. This modification will help enhance wider competition.	NTPC has reviewed the vendor's request and agrees to revise the specification as follows: Existing Specification: 4.25 to 7mm – 170 to 280mm or better Revised Specification: 3.95 to 7mm – 159 to 280mm or better
Pg. No. 13 of 29	5	Optical Zoom	40X or better	Request to the tendering authority to amend this clause to include 30x optical zoom, which will help ensure wider competition.	The optical zoom requirement is already specified as “30X or better.” Therefore, the tender specification shall remain unchanged .
Pg. No. 13 of 29	8	Multiple Streams	1) Primary Stream: H.264, H.265 @50/60 FPS	It is requested to consider the frame rate of 25 fps as sufficient to ensure smooth and clear video output for surveillance and monitoring applications. Most standard video surveillance systems operate efficiently at 25 fps, which is adequate for identifying subjects, monitoring movements, and maintaining video clarity. Moreover, operating at 50/60 fps offers negligible improvement in visual quality for general security applications while significantly increasing storage and bandwidth requirements. Therefore, 25 fps provides an optimal balance between performance, network efficiency, and storage utilization, and is widely accepted as the industry standard for CCTV and PTZ surveillance systems.	NTPC has reviewed the vendor's request and agrees to revise the specification as follows: Existing Specification: Primary Stream: H.264, H.265 @ 50/60 FPS Revised Specification: Primary Stream: H.264, H.265 @ 25/30 FPS

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Pg. No. 13 of 29	9	Effective resolution/ Number of Pixels	2 MP (1920 x 1080 Full HD) or better at 50/60	Request for change the frame rate of 25 fps@ 2MP is sufficient to ensure smooth and clear video output for surveillance and monitoring applications. Most It is requested to consider the frame rate of 25 fps @ 2MP as sufficient to ensure smooth and clear video output for surveillance and monitoring applications. Most standard video surveillance systems operate efficiently at 25 fps, which is adequate for identifying subjects, monitoring movements, and maintaining video clarity. Moreover, operating at 50/60 fps provides negligible improvement in visual quality for general security use while significantly increasing storage and bandwidth requirements. Therefore, 25 fps offers an optimal balance between performance, network efficiency, and storage utilization, and is widely accepted as the industry standard for CCTV and PTZ surveillance systems. To make the specification more generic and technically practical, we request the tendering authority to amend the specification to 4CIF 25/30 fps.	NTPC has reviewed the vendor's request and agrees to revise the specification as follows: Existing Specification: 2 MP (1920 x 1080 Full HD) or better at 50/60 FPS Revised Specification: 2 MP (1920 x 1080 Full HD) or better at 25/30 FPS
Pg. No. 13 of 29	11	IR Range	200 mtr or better	Request for amend this clause to specify an IR range of 150 meters to enable fair and competitive bidding. This change will help ensure wider bidder participation and promote healthy competition.	NTPC has reviewed the vendor's request and agrees to revise the specification as follows: Existing Specification: 200 mtr or better Revised Specification: 150 mtr or better
Pg. No. 14 of 29	26	Pan & Tilt Speed	240°/s Pan Speed and 180°/s Tilt Speed	Request for amend this clause to specify a pan speed of 180°/sec and a tilt speed of 90°/sec. This modification will help promote wider participation and enhance competition.	NTPC has reviewed the vendor's request and agrees to revise the specification as follows: Existing Specification: 240°/s Pan Speed and 180°/s Tilt Speed Revised Specification: 180°/s Pan Speed and 90°/s Tilt Speed

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10.10 PTZ IP Camera- Technical Specification & Compliance Sheet					
S/No	Parameter	Requirements	Compliance (Yes/No)	Request for change	NTPC Reply/ Remarks
24	Tilt	-10 to 90 deg	Tilt: -5° ~ 90° (auto-flip)	Tilt: -5° ~ 90° (auto-flip)	The specified tilt range of -10° to +90° is required to ensure adequate vertical field of view, including coverage of elevated structures and areas directly below the camera, thereby minimizing blind spots. Therefore, the tender specification shall remain unchanged .
10.30 NVR 32 channels-Technical Specification & Compliance Sheet					
24	Alarm Inputs	16 Potential Free I/P	8-ch input	standard no. of channels is 2 but here requesting to change to 8-ch input.	Requirement of 16 potential-free alarm inputs is essential for integration with external systems such as fire alarm, access control, intrusion detection and other field alarm contacts. Reduced alarm input capacity shall limit future expandability and system integration requirements. Therefore, the tender specification shall remain unchanged .
10.40 24 Port L2 Ethernet Switch-Technical Specification & Compliance Sheet					
23	Log Management	Syslog shall be supported with multiple syslog destinations.	Please remove multiple syslog destinations.(this feature only core switch)	This is applicable for sending the syslog to multiple server at same times.	Support for multiple syslog destinations is required for redundancy, centralized monitoring and simultaneous log archival at different servers/locations. The feature enhances system maintainability and cybersecurity monitoring. Therefore, the tender specification shall remain unchanged .

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27	Environmental conditions	The offered equipment must be able to operate in the following environmental conditions - Operating temperature: 0 ° C to 75 ° C	Operating temperature -5 to 50 °C (23 to 122 °F)	mentioned Operating temperature is for Industrial grade switch. But this L2 switch is having normal POE specification.	The specified operating temperature range is intended to ensure reliable operation under varying site environmental conditions and to maintain standardization across network infrastructure. Therefore, the tender specification shall remain unchanged .
10.90 Display 65 Inch with Stand - Technical Specification & Compliance Sheet					
7	Input Ports	HDMI-3, USB 2.0 - 1, RS232C-1, RJ45/LAN-1, RF-1, or more	No RF port	No RF port. Now a days HDMI. Ethernet and USB connection is usable. If it is required so then through converter it get managed. Hence, request to remove.	RF input port is specified to ensure compatibility with diverse signal sources and future operational requirements. Therefore, the tender specification shall remain unchanged .
8	Output Ports	Optical Digital Out-1, External Speaker Out-1, Headphone Out-1	Only one Audio out	Only one Audio out	Separate Optical Digital Out, External Speaker Out and Headphone Out ports are required to provide flexibility for different audio output applications and future integration requirements. Therefore, the tender specification shall remain unchanged .
11	HDR Support	HDR Pro/10/Plus	NO	Please remove feature	HDR support is required to improve image quality, contrast, brightness and visibility of details, particularly for surveillance and monitoring applications. Therefore, the tender specification shall remain unchanged .
10.100 05 KVA ON-LINE UPS-Technical Specification & Compliance Sheet					
24	Degree of Protection	IP 21 or better	IP 20 or better	IP 20 is very generic certifications.	IP21 protection is specified to provide additional protection against ingress of dripping water and moisture, thereby enhancing operational reliability and safety. Therefore, the tender specification shall remain unchanged .
10.70 P2P/P2MP-Technical Specification & Compliance Sheet					

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8	Network Configuration	WAN: Static/Dynamic/PPPoE/L2TP/PPTP LAN: Static/Dynamic/DHCP Forwarding: ALG/ UPnP/Virtual Server/Port Trigger Security: SPI Firewall/ Ping Forbidden/ DoS Protection Access Control Static Routing Bandwidth Control IP & MAC Binding	Kindly remove Forwarding: ALG/ UPnP/Virtual Server/Port Trigger Security: SPI Firewall/ Ping Forbidden/ DoS Protection Access	Kindly remove Forwarding: ALG/ UPnP/Virtual Server/Port Trigger Security: SPI Firewall/ Ping Forbidden/ DoS Protection Access	The specified forwarding and security features (ALG, UPnP, Virtual Server, Port Triggering, SPI Firewall, DoS Protection, Access Control, etc.) are required for network flexibility, remote access, traffic management and cybersecurity requirements of the communication system. Therefore, the tender specification shall remain unchanged .
9	Wireless Configuration s	Selectable Channel Width: 5/10/20/40MHz Auto Channel Selection Transmit Power Control Dynamic Frequency Selection (DFS) WDS Enable/Disable Security: WPA/WPA2, WPA-PSK/WPA2-PSK (AES/TKIP) Encryption, 64/128/152-bit WEP Encryption SSID Broadcast Enable/Disable Multi- SSID with VLAN Tagging Distance/ACK Timeout Setting Wireless MAC Address Filter Wireless Advanced: Beacon Interval/RTS Threshold/Fragmentation Threshold/DTIM Interval/AP Isolation/Short GI/Wi-Fi Multimedia	Kindly remove Advanced: Beacon Interval/RTS Threshold/Fragmentation Threshold/DTIM Interval/AP Isolation/Short GI/Wi-Fi Multimedia	Kindly remove Advanced: Beacon Interval/RTS Threshold/Fragmentation Threshold/DTIM Interval/AP Isolation/Short GI/Wi-Fi Multimedia	Advanced wireless parameters such as Beacon Interval, RTS Threshold, Fragmentation Threshold, DTIM Interval, AP Isolation, Short GI and Wi-Fi Multimedia are required for performance optimization, QoS management, network security and reliable operation under varying RF conditions. Therefore, the tender specification shall remain unchanged .