S.No	Page No.	Item	Point No.
1	69/83	TECHNICAL SPECIFICATIONS : Scope of Work	1.1 & 1.7
2	69/83	TECHNICAL SPECIFICATIONS : Scope of Work	1.5
3	78/83	TECHNICAL SPECIFICATIONS : 3.1.3 Multi-Sensor Camera Outdoor	1
4	81/83	TECHNICAL SPECIFICATIONS : 2. Approved Makes and Accessories:	6
5	81/83	TECHNICAL SPECIFICATIONS : 2. Approved Makes and Accessories:	7
6	82/83	TECHNICAL SPECIFICATIONS : 2. Approved Makes and Accessories:	8
7	73/83 76/83 79/83	TECHNICAL SPECIFICATIONS : 3.1.1, 3.1.2, 3.1.3Camera should not use any 3rd party chipset for the image processing and analytics. Camera should have IN house chipset processor.	30

8	73/83 76/83 79/83	Built-in for audio recording or Camera should have 2.5mm/3.5mm jack for external Microphone (Make OEM) for audio recording Crystal Clear Audio range up to 5 Mtr and is capable of catching audio up to 10 Mtr	33

COMMISSIONING AND TESTING OF IP SURVEILLANCE SYSTEM
NIT: CMC/BY/24-25/RS/SkS/SS/33

Specifications	Minimum Requirement Description
Network I/O Relay Module for **FAS integration (Fire alarm)**	1.1 Network I/O Relay Module for FAS integration (Fire alarm) 1.7 FAS system shall be integrated with VMS. To facilitate integration Network digital I/O device shall be used to take NO/NC triggers of FAS controller.
All LAN cables to be covered in ISI mark PVC / GI pipes or concealed through ISI mark PVC / HDPE	HDPE conduit- Length: 15 Meter and add 10-15% extra for adjustments
Imaging device/ Sensor	2 x 1/3" 2 MP progressive scan CMOS
PVC Conduit	25mm dia PVS/ MS Conduit
Specification for Duct Material	Specification for Duct Material: - PVC or HDPE conduit - Length: Measure distance and add 10-15% extra for adjustments - Material: Galvanized steel
Weather Proof Junction Box	Weather Proof Junction Box for UPS, media convertors of outdoor PTZ cameras and its other accessories
Security	Chipset

Built in for Audio Recording	Externl Audio

BYPL Clarification / Remark
FAS Intigration and Network I/O Relay Module Not required
1. HDPE conduit- For Underground wiring   **2. PVC Conduit - For External wiring**   3. No MS or GI pipe to be laid for cable laying apart from PVC and HDPE
(2 and above) x 1/3" 2 MP progressive scan CMOS
25mm PVS Conduit for External and Internal wiring
Only HDPE conduit   **Length:** 25 Meter and add 10-15% extra for adjustments   **Material:** Galvanized steel with Yellow Paint. Ensure proper adhesion and durability.
A weatherproof junction box for an outdoor camera to house the camera's I/O, microphone, connectors, and media converters, with dimensions around 12 x 8 x 6 inches, and equipped with a key locking mechanism.
Camera should have in house chipset processor or International Stadard (Amberella, Qualcomm, Intel, NVIDIA etc) which are globally recognised and comlinace all the security parameter ul/cl

Built-in for audio recording or Camera should have
2.5mm/3.5mm jack / Audio input for external
Microphone (Make OEM)
for audio recording
Crystal Clear Audio range up to 5 Mtr and is capable of
catching audio up to 10 Mtr.