ANNEXURE B

ई –निविदा (तकनीकी ऑफर)

All the technical requirements & Specifications under annexure B are the minimum requirement.
Filling Specification below the minimum requirement is subject to rejection

TECHNICAL REQUIREMENTS

S.NO.	Specifications	Conformance Yes/NO	Deviation if any
A	**GENERAL REQUIREMENTS**		
1	It is intend to purchase CCTV System to cover sensitive areas of the Markfed paddy storage center and the connectivity of all the cameras to NVR through wireless system for Completion of project. All the NVR laying in different block and again connected through LAN network to the main security office or desired by the purchase committee.		
2	Application of the CCTV Surveillance includes the generating Alarms, recording on the basis of motion detection and private zone masking.		
3	The recording of CCTV camera should be clear and the recording resolution should minimum 2 mega pixel quality. The NVR also give the 25fps per channel on live display and recording.		
4	The recording and display can be viewed on network and by the individual department where the NVR are installed.		
5	The recording of the NVR can be viewed on the remote location on network. The recording also should be remote location.		
6	The bid must be complete with all equipment's and requires accessories along with necessary power system plugs. Video connectors and brackets.		
7	The authorization that the items quoted by bidder are in production and latest in this technology as on delivery of the material .The after sale service support by minimum 1 year.		
8	The all outdoor weather proof housing should IP66 with heavy duty brackets.		
9	The CCTV cameras & NVR should be AXIS, PANASONIC, PELCO, CP PLUS, SONY, DAHUA, INFONOVA, BOSCH, HIKVISION Company		
10	CAMERA and NVR should be of same makes.		

TECHNICAL SPECIFICATION

S.N-	Specification	Conformation Yes/No.	Deviation if any
B	**2 MP FUII HD WDR IP IR BULLET NETWORK CAMERA**		
1	Image Sensor : 1/2.8" 2 Megapixel PS CMOS		
2	Minimum Illumination : 0.005Lux/F1.2, 0.006Lux/F1.4(Color);0Lux/F1.4 (IR on)		
3	Shutter Speed : Auto/Manual (1/3-1/100000s)		
4	Lens : 2.7mm-12mm motorized Lens, Auto Iris		
5	Gain Control (AGC) : Auto/Manual		
6	S/N Ratio : More than 55 dB		
7	Video Compression : H.265+/H.265/H264+/H.264		
8	Back Light Compensation : BLC/HLC/WDR (120dB)		
9	Video Streaming : Main Stream : 1080P(1-50/60fps), Sub Stream: D1(1-50/60fps)m Third Stream: 1080P(1-25/30fps)		
10	Resolution : 1080P(1920x1080)/720P(1280x720)/(704x576) /352x288		
11	Optional Feature : Privacy Mask, Motion Detection, Active Tampering Alarm, White Balance : Auto/Natural/Street Lamp/Outdoor/Manual, Watermark Support		
12	ICR : Auto (ICR)/Color/B/W		
13	Audio Input : 1Ch.		
14	Audio Output : 1 Ch.		
15	Audio Compression : G.711a.G.711Mu/AAC/G.726		
16	Protocol : HTTP; HTTPs; TCP/IP/ UDP; RTSP;RTP;;SMTP;FTP;DHCP;DNS;IGMP;DDNS;PPPOE; IPv4/v6; Qos; UPnP; NTP; Bonjour; 802.1x; Multicast; ICMP; IGMP; SNMP, ONVIF (Profile S)/PSIA, CGI		
17	Smart Detection Optional : Tripwire/Line crossing detection, Intrusion, Object Abandoned/Missing, Face Detection		
18	Ethernet : RJ-45 (10/100)Mbps		
19	User Account : 20 User		
20	Web Browser/Smart Phone support		
21	IR : IR Range of 50 Mtr.		
22	Micro SD : Max 128 GB and 128 GB Micro SD Card		

23	Operating Temperature : -30 degree C to + 60 degree C (-22 degree F to + 140 degree F)		
24	Power Source : DC12V, PoE+/PoE		
25	Approved Makes : Axis, Panasonic, pelco, CP plus, Sony, Dahua, Infonova, Bosch , Hikvision Company		
26	Power Consumption : <11.5W		
27	Weatherproof Standard : IP66 , IK10		
28	Casing ; Metal/Aluminium Alloy		
C	**2 MP FULL HD IP PTZ NETWORK CAMERA**		
1	Image Sensor : 1/2.8" 2 Megapixel PS CMOS		
2	Effective Pixels : 1920(H) x 1080(V)		
3	Minimum Illumination : Color:0.005 Lux@F1.6; 0 lux@F1.6(IR on)		
4	Focal Length : 4.8mm-120mm		
5	Focus Control : Auto/Manual		
6	S/N Ration : More than 55 dB		
7	Angle Of View : H:59.2 degree - 2.4 degree		
8	Close Focus Distance : 100mm-1000mm		
9	AGC Control : Auto/Manual		
10	Back Light Compensation : BLC/HLC/WDR (120dB)		
11	Optical Zoom : 25x / Digital Zoom : 16x		
12	Pan Travel : 0 degree to 360 degree endless		
13	Tilt travel : - 15 degree to 90 degree, auto flip 180 degree		
14	Manual speed : Pan: 0.1 to 300 degree/s; Tilt 0.1 degree to 200 degree/s		
15	Presets : 300		
16	Preset speed : Pan 400 degree/s,Tilt:300 degree/s		
17	Privacy Masking : Up to 24 areas		
18	Special Features : Tripwire, Intrusion, Abandoned/Missing, Face Detection, Power up Action, White Balance, Privacy masking		
19	Motion : Activate Preset/Pan/Scan/Tour/Pattern if there is no command in the specified period		
20	Day/ Night:IR cut filter: Auto(ICR)/color/B/W		

21	Video compression: H.265+/H.265/H.264+/H.264/MJPEG		
22	Video Streaming : Main stream: 1080p/720p/1.3m (1-50/60fps), Sub stream : 1 D1/CIF (1-25/25/30fps,)Sub stream 2 : 1080p/1.3mm/720p/D1/CIF (1-25/30fps)		
23	Networking : RJ-45(10/100Base-T)		
24	Protocols : Ipv4/IPv6, HTTP, HTTPs/ SSL, TCP/IP or UDP, UPnP, ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP, IP Filter , Qos, Banjour 802.1x, ONVIF (Profile S)/PSIA, CGI		
25	Remote Users : 20 User		
26	Operating Temperature: -40 degree C to 70 degree C.		
27	Web Browser/Smart Phone/Iphone support		
28	Weather Proof Standard : IP66/IP67		
29	Power Source : AC24V,PoE +/PoE		
30	Power Consumption : 13W, 23W (IR on)		
31	Approved Makes : Axis, Panasonic, pelco, CP plus, Sony, Dahua, Infonova, Bosch, Hikvision		
32	IR: IR Range of 150 Meters.		
D	**NETWORK VIDEO RECORDER 16 CHANNEL**		
1	Processor : Dual - core embedded processor		
2	Operating System : Embedded LINUX/Compatible OS		
3	IP Camera Input : 16 channel		
4	User Interface : GUI		
5	Video Output: HDMI, VGA		
6	Compression: H265+/H.265./H264+/H264		
7	Video Resolution : 3840x2160, 1920x1080, 1280x1024, 1280x720, 1024x768		
8	Video Recording : 200 mbps		
9	Video Display Split : 1/4/8/9/16		
10	Video Loss : Supports		
11	Camera Blank : Support		
12	Hard Disk : 8 SATA III Ports, up to 48TB		

13	Web Browser/Smart Phone/Iphone support		
14	Special Features :- Trigger Events : Recording, PTZ, Tour, Alarm out, Video Push, Email, FTP, Snapshot, Buzzer & Screen tips, Recording Mode : Manual Schedule (Regular, Continuous), MD (Video detection : Motion detection, Tempering, Video Loss), Stop, Search Mode : Time/Date, Alarm, MD & Exact search (Accurate to Second), Smart search, Playback : Play, pause, stop, rewind, fast, play, next file, previous file next camera, previous camera, full screen repeat, shuffle, backup selection, digital zoom		
15	Backup Mode : USB Device/Network		
16	Interface Ports : 1HDMI, 1VGA, 3USB Ports (2USB2.0, 1USB.0), 1RS232, 2RJ45		
17	Record Interval : 1-120min(Default:60Min), Pre-record: 1-30 sec, post-record:10-300 sec		
18	User Account : 128 users		
19	Ethernet : RJ-45 port (10/100M/1000Mbps,)		
20	Protocols : HTTP/HTTPS, TCP/IP/ UDP, ipv4/IPv6, UPNP , RTSP , SMTP , NTP , DHCP, DNS , IP filter , PPPOE , DDNS , FTP , Alarm server , ONVIF		
21	Power supply : AC 100V- 240 V , 50-60 Hz		
22	Power consumption : < 12W (Without HDD)		
23	Working Temperature : -10 to + 55 Degree C		
24	Approved Makes : Axis, Panasonic, pelco, CP plus, Sony, Dahua, Infonova, Bosch, Hikvision Company		
E	**5 PORT FAST ETHERNET SWITCH WITH 4 POE**		
1	Power Supply : Power Adaptor		
2	Network Standard : Support IEEE 802.3802.3u/IEEE802.3ab/IEEE802.3z/Ieee802.3x		
3	Packet Forwarding Rate : 0.74Mpps		
4	Exchange Capacity : 1.0Gbps		
5	MAC Address List : 2K		
6	Transmission Distance : 1-4 port: default, 0.100m, CCTV: 0.25m, UPLINK: 100m		

7	Ethernet Speed : 1-4 port: default 10 100mbps, CCTV: 10mbps, UPLINK port 100mbps		
8	Packet Buffer :768K		
9	PoE Power Budget : 60 W		
10	Ethernet Port Light : 2pcs(Yellow & Green) on RJ45 Yellow indicates PoE, Indicates Link Act		
11	Surveillance Module Light : 1pc (Green) Indicates CCTV		
12	Power Source : DC 48V-54V		
13	Operating Temperature : -10 degree C to 55 degree C		
14	Power Consumption : <5W		
F	**HARD DISK (4TB)**		
1	Should be 4TB		
2	Should have surveillance		
3	Approved Makes : SEAGATE/WESTERN DIGITAL/ TOSHIBA		
G	**LED MONITOR (HD)**		
1	Screen Size Minimum 21" or Above		
2	Resolution 1366x768 (HD)		
3	Brightness (cd/m2) 250		
4	Viewing Angle 178x178 degree		
5	Frame Rate 8.5		
6	Aspect Ratio : 16:9		
7	Approved Makes : Sony/LG/Samsung		
H	**NETWORK LAN CABLE**		
1	Lan Cable should be Cat6		
I	**NETWORK U-RACK**		
1	Minimum 6 U-RACK		
J	**PVC CONDUIT PIPE**		
1	Outer Dia 1.25 mm		
2	Color white heavy duty with all related accessories		
3	Size 3/4"		
K	**POWER CABLE**		
1	PVC insulated and working temperature higher than 60 degree		
2	Two core inner conductor 1sq mm		

3	Insulation Resistance more than 10 m ohm		
4	Approved Makes FINOLEX /HAVELLS		
L	**TOWER**		
1	Height Minimum 25 feet from ground		
2	With Wireless Device & camera fixing brackets		
M	**WIRELESS DEVICE**		
1	Should support to connect camera & NVR		
2	Should be wireless connectivity point to point		
3	Range should not be less than 1 km		
N	**REMOTE VIEWING FACILITY**		
1.	ONVIF (Open Network Video Interface Forum) Complaint and of the same OEM as that of CCTV Camera.		