

## Schedule- I

## Technical Specifications , Makes &amp; Compliance

Sr. No.	Description	
	Specification	Minimum Requirements
1	DVR - 8 Channel	
	Video compression format	H.264
	Video system	PAL / NTSC
	Video input	8 Channel composite BNC
	Video Resolution	Format NTCL PAL D1(4CIF) 704x480 704x576
	Main processor	Embedded XP OS / Linux OS
	System resources	Pentaplex function: live, recording, playback, backup & remote access
	User interface	User friendly GUI.
	Display & Recording resolution	Real time for all channels @ 25 fps per channel – D1 quality real time on every channel
	Hard Disk	Video surveillance HDDs to support storage of video images for a minimum period of 30 days Should be supplied with suitable Hard Disk (Minimum 1 TB) with provision for additional minimum two more free slots to support two more SATA HDD.
	Recording mode	Automatic, Continuous, video detection alarm (motion detection, camera blank, video loss)
	Motion Detection	Should support multi-zone motion detection
	USB interface	Minimum 2 ports
	Software upgradation	Should have facility for software upgradation
	Remote viewing	Remote viewing through Network & WEB
	Password protection	Multiple password protection
	Indication of faults	Should give visual indication of local faults, Disk full, Malfunction etc., along with alarm through Audio, SMS & e-mail.
	Backup mode	Flash disk / USB HDD / USB CD/ built in SATA burner
	Monitor	Should support 2 monitors (Spot & VGA)
	Network	Should have the provision for Network connection like Hub/Switch, Eather net & LAN cables etc
	Quality certification (Copy/Proof must be attatched)	UL
	Make of System	Any
	Time Stamp on Image	Yes
	Camera No. on Image	Yes
	Recording During Viewing	Yes
	Line View	Yes
	Play Back Speed	Atleast 4 Speeds (user selectebale)
	Playback Image Size	704 X 576 Pixel in multiplle modes (1/4/8/16)
	Ability to print Image	Yes
	Search Facility	By Date / Time and /or Cameras Number
	Archiving Facility	To be Provided

2	High Resolution Day / Night Dome Colour Camera-IR Dome Camera 700 TVL 30 MTR	
	Picture format	PAL / NTSC
	Imaging device	1/3" Colour CCD
	Horizontal resolution	700 TV Line or better
	Minimum illumination	0.01 lux / F1.2 or better in Colour mode
	Signal to noise ratio	60 db or better
	Variable focal length	3.6 – 8 mm
	Auto Gain Control	Auto
	White Control	Auto
	Backlight Compensation	Auto
	IR Range	30 Mtrs
	Mount	Auto
	Resolution	700 TVL
	Operating voltage	12 volt DC/ or 220 volt AC
	Certification ( Copy/Proof must be attached)	U L
	Operating Temperature	0 to + 50 Degree Centigrade
	Acceptable make	Any UL certified brand
3	Infrared Cameras -IR Bullet Colour Camera 700 TVL 20 MTR of dust & water proofing type.	
	Image Sensor	1/3" Colour CCD
	Horizontal resolution	700 TV Line or better
	Lens	Built in 3.6 mm
	Minimum illumination	0.01 Lux /F1.2
	S/N Ratio	More then 60 db
	Auto Gain Control	Auto
	White Control	Auto
	Backlight Compensation	Auto
	IR Range	20Mtrs
	Mount	Auto
	Resolution	700 TVL
	Operating voltage	12 volt DC/ or 220 volt AC
	Certification ( Copy/Proof must be attached)	U L
	Operating Temperature Sync system	0 to + 50 Degree Centigrade Internal
	Acceptable make	Any UL certified brand
4	Infrared Cameras -IR Bullet Camera 600 TVL 50 MTR dust & water proofing type.	
	Image Sensor	1/3" colour CCD
	Resolution	600 TV lines or better
	Lens	Built in 6 mm
	Minimum illumination	0.01 Lux /F1.2
	S/N Ratio	More then 60 db
	Auto Gain Control	Auto
	White Control	Auto
	Backlight Compensation	Auto
	IR Range	50 Mtrs
	Mount	Auto
	Resolution	600 TVL
	Operating voltage	12 volt DC/ or 220 volt AC

	Certification ( Copy/Proof must be attached)	U L
	Operating Temperature Sync system	0 to + 50 Degree Centigrade Internal
	Acceptable make	Any UL certified brand
5	Monitor - LED 22" / 24" Monitor	
	Aspect ratio	4:3 – 24"/26" Viewable diagonal area
	Active area / Pixel pitch	408.24 (H) X 306.18 (V)
	Maximum Resolution	1920 x 1080
	Brightness / contrast	300 cd / m2
	Type	1000:01:00
	Response time	Lesser than millisecond
	Viewing angle (Typical)	H 170 V 160
	Video input	NTSC / PAL
	PC System	Signal Analog RGB (0.7/1.0 vp-p 75 ohm)
	Operating Voltage	100 - 240 V AC (50/60 Hz)
	Acceptable make	Reputed make ( Samsung, Sony, LG or equivalents)