<u>R</u>		<u>DESCRIPTION</u>			QTY
	2 Megapixel Full HD IR IP PTZ Dome Camera OR Box camera with housing with heater and			Nos	18
	blower assembly and PT assembly.				
	DT7 Domo Camara Specifications				
	PTZ Dome Camera Specifications				
	(a) Housing				
	(i)	Dome			
	(ii)	Box Camera with heater and blower assembly			
	(b) Camera				
	(i)	Image Sensor	1/3" or better progressive scan CMOS		
	(ii)	Optical zoom	Powerful 20X		
	(iii)	Digital Zoom	12X		
	(iv)	Lens	Auto Focus		
	(v)	Iris control	Auto		
	(vi)	White Balance (AWB)	Auto		
	(vii)	Resolution	2 Mega Pixel /Full HD 1080p		
	(viii)	Back Light Compensation (BLC)	On/Off		
	(ix)	AGC	Auto		
	(c) IP Specifi	cations			
	(i)	Video compression	H.264 M-JPEG		
	(ii)	Frame Rate	30/25 fps(frames per second)		
	(iii)	Video Resolution	1080p		
	(iv)	Video streaming	Dual Streaming		
	(v)	Supported protocols	Compatible with all generic protocols		
	(vi)	Network security	IEEE 802.1x		
	(vii)	Storage	Micro SD		
	(d) Operation				
	(i)	Pan Travel	360° Endless		
	(ii)	Pan Speed			
	(iii)	Day/Night (Infrared Cut filter	Auto/on/off		
	(iv)	IR Illuminator	>100m		
	(v)	Wide Dynamic Range (WDR)	On/Off		
	(v)	Audio Alarm	Dev		
	(vii)	Noise Reduction	Digital Noise Reduction (DNR) 2D/3D		
	(viii)	Presets	Upto 255		
	(ix)	Preset Tours	8		
	(x)	Auto Scan	> 4		
	(xi)	Central Monitoring Station Software	5 00.7 1		
	(e) Environm				
	(e) Environin	Ingress Protection (IP)	IP 66		
	(1)	mgress i roteotion (ii)	11 00		
	Outdoor Powe	er Supply Unit Housing with Heater	& Blower for PTZ Cameras	Nos	18
	Saladoi i owe	or capply office i loading with reatter	a blower for 1 12 damendo	1,403	'

SER	DESCRIPTION			<u>UOM</u>	QTY
3	1/3" 2Megapixel progressive scan CMOS Network Camera .			Nos	72
	Natural Fixed Long Camera Specifications				
	Network Fixed Lens Camera Specifications				
	(a) Housing				
	(i)	Outdoor fixed lens Camera			
	(b) Camera 9	Specifications			
	(i)	Image Sensor	1/3" or better progressive scan CMOS		
	(ii)	White Balance (AWB)	Auto		
	(iii)	Resolution	2 Mega Pixel /Full HD 1080p		
	(iv)	Back Light Compensation (BLC)	On/Off		
	(v)	AGC			
	(c) IP Specif	ications			
	(i)	Video compression	H.264 M-JPEG		
	(ii)	Frame Rate	30/25 fps(frames per second)		
	(iii)	Video Resolution	1080p		
	(iv)	Video streaming	Dual Streaming		
	(v)	Supported protocols	Compatible with all generic protocols		
	(vi)	Network security	IEEE 802.1x		
	(vii)	Storage	Micro SD		
	(d) Operation		MINIOTO EB		
	(i)	Day/Night (Infrared Cut filter	Auto/on/off		
	(ii)	IR Illuminator	>100m		
	(iii)	Wide Dynamic Range (WDR)	On/Off		
	(iv)	Audio Alarm	Dev		
	(v)	Noise Reduction	Digital Noise Reduction (DNR) 2D		
	(v) (vi)	Central Monitoring Station Software			
	(e)Environm	197 PC			
	N. A.	Ingress Protection (IP)	IP 66		
	(i)	, ,	IF 00		
	(f) Electrical		D-E - IEEE000 2-4 2000		
4	(i)	Power Source	PoE + IEEE802.3at-2009	N.I.	70
4	C/CS Mount Vari-Focal 5.0 - 50mmMegapixel Lens			Nos	72
5	Outdoor Power Supply Unit 24V/3 Amps Housing with Heater & Blower			Nos	72
6	220 Metre High Range IR Illuminator with Mounting bracket & arrangement			Nos	72

<u>SER</u>		<u>D</u>	ESCRIPTION	<u>UOM</u>	QTY
7	Network Video	Recorder		Nos	3
	Network Video Recorder Specifications				
	(a) General	THE STATE OF			
	(i)	Video Channels	128		
	(ii)	Front Display	LCD		
	(iii)	Ingress Protection	IP 43		
	(iv)	ONVIF(Open Network	Version 2.0		
	(v)	RAID	1/5		
	(b) System				
	(i)	Main Processor	Intel Core i5 Processor or higher version		
	(ii)	Operating System	Windows embedded		
	(iii)	HDD ports	16 SATA with support for Hot swap		
	(c) Video				
	(i)	Input	128Ch@D1/64Ch@720p/32Ch@1080p/		
			Compatible to the connected camera Compatible		
	(ii)	Transmission	128Ch@D1/64Ch@720p/32Ch@1080p/		
	(iii)	Recording	Compatible to the connected camera 128Ch@D1/64Ch@720p/32Ch@1080p/		
			Compatible to the connected camera		
	(iv)	Output	6 HDMI+1 VGA (Default : 2 HDMI)		
	(v)	Video Compression	H.264 M-JPEG		
	(d) Network				
	(i)	Security	Password protected/user access log		
	Note:				
	room. 2 All data	a of cameras should be recor	a should be stored on respective NVR Server at CMS ded / stored on NVR recording servers (three Nos.)		
8	SATA Hard disl	k. Capacity - 4TB		Nos	48
9	HD Network Control Keyboard,			Nos	1
10	Video Management System Software – Client PC/ workstation PC/s should be provided to process all operations as per Central Management Software and network joystick. All cameras (except fixed camera) should be controlled (PTZ) with single network joystick. Video Data from all cameras located at proposed locations will be received through network switches & recorded in recording servers, viewed through CMS & VMS server on monitors. Cameras, Housing, Video Management Software and Enterprise Level Software shall be either of the same make for ease of seamless integration (a) General (i) Supports upto 64 ch recording & viewing on a single display (ii) Support Multi monitors (iii) Support group or sequence display (iv) Support redundancy for recording (fail over) (v) Support Video wall function (vi) Instant playback last 10 sec ~8 min (vii) Ease of search (viii) One click emergency recording Camera wise disk calculation based on frame rate and 2 way audio communication, audio chat				