

# Bill of Material

**Name of Work:- Supply, Installation, Commissioning & Maintenance of Perimeter Intrusion Detection System & CCTV Surveillance system for plant on lease basis for 5 years**

## Part A - Lease

S. No	Item name	Unit	Qty
	a	b	c
1	IP based 2MP Box Type Camera with varifocal lens for Deep Learning Analytics as per spec alongwith IR housing and Camera Pole mounting bracket as per specification at Annexure -A	Nos.	110
2	IP based 4K UHD PTZ Camera at Perimeter Wall as per specification at Annexure -B	Nos.	30
3	IP based 2MP Fix ANPR Box Camera with varifocal lens as per spec alongwith IR & housing at Entry and Exit Points as per specification at Annexure -C	Nos.	14
4	IP based 2MP Fix Camera at gates for Deep Learning Analytics as per specification at Annexure -D	Nos.	20
5	64 Channels Network Video Recorder with 80 TB Storage as per specification at Annexure -F <ul style="list-style-type: none"> <li>• including Hardware, OS,</li> <li>• with minimum 64 channels with features for Video management, Video monitoring &amp; administration, user access control</li> <li>• Keyboard, Mouse, Display monitor (min 17" TFT)</li> <li>• Rack mountable with Internal Storage for video recording archieval</li> <li>• Should be able to store min 90 days video recording in 24x7 mode</li> <li>• Storage 90 days @25/30fps for all cameras</li> <li>• Size of storage to be specified by the vendor</li> <li>• Storage should be of Surveillance grade and should come with all necessary racks (if external) and suitable enclosures for rack mounting.</li> </ul>	Nos.	4
6	IP based 2MP Fixed Bullet cameras for inside factory locations as per specification at Annexure -D	Nos.	80
7	12MP Fisheye Cameras for inside factory locations as per specification at Annexure -E	Nos.	40
8	4K PTZ UHD Camera for inside factory locations as per specification at Annexure -B	Nos.	30
9	64 Channels Network Video Recorder with 80 TB Storage for inside factory locations cameras as per specification at Annexure -F <ul style="list-style-type: none"> <li>• including Hardware, OS,</li> <li>• with minimum 64 channels with features for Video management, Video monitoring &amp; administration, user access control</li> <li>• Keyboard, Mouse, Display monitor (min 17" TFT)</li> <li>• Rack mountable with Internal Storage for video recording archieval</li> <li>• Should be able to store min 90 days video recording in 24x7 mode</li> <li>• Storage 90 days @25/30fps for all cameras</li> <li>• Size of storage to be specified by the vendor</li> <li>• Storage should be of Surveillance grade and should come with all necessary racks (if external) and suitable enclosures for rack mounting.</li> </ul>	Nos.	4

10	42 unit Rack for server & storage mounting along with cable tray & necessary adequate no. of power strips, power cables etc as per specification at Annexure -G	Nos.	1
11	VMS Server Hardware as per specification at Annexure -H	Nos.	2
12	VMS Software License for VMS Channels as per specification at Annexure -I	Nos.	324
13	Deep Learning Artificial Intelligence Software License as per specification at Annexure -J	Nos.	110
14	Client Workstation - PC alongwith Main Integrated Display Unit with 4 hdmi output display card and with 4 nos. of 55" commercial display LED panel for 24*7 monitoring (PC/Workstation should have Latest licensed OS, PC with min specification: i7 Processor, Min 16 GB RAM & min Dual graphics card), Keyboard, mouse, UPS as per specification at Annexure -K	Nos.	2
15	Software License for Client Workstation	Nos.	2
16	Industrial Grade 8 Port PoE industrial Switch with 2 Ports SFP with Modules (managed) as per specification at Annexure -L	Nos.	40
17	IP66 Rated Junction Box fitted with 2Pole MCB and OFC 6 Core 2 Fiber cable Splice Tray as per specification at Annexure -P	Nos.	40
18	ANPR Rack Mounted workstation hardware as per specification as per specification at Annexure -Q	Nos.	3
19	Software License for ANPR Channels as per specification with client software as per specification at Annexure -R	Nos.	14
20	Operating cost for Manpower - (3 Service engineers to be posted at site on full time basis)	LOT	1
21	25 KVA UPS with 30min Backup as per specification at Annexure -T	Nos.	2
22	15 KVA UPS with 30min Backup as per specification at Annexure -U	Nos.	1
23	24 Port Managed Switch with 4 Port SFP as per specification at Annexure -V	Nos.	2

**Part B - Outright purchase (These charges should be valid for entire contract period)**

S. No	Item name	Unit	Qty
	a	b	c
1	6 Core Armoured Single Mode Fiber Cable including Laying in HDPE Conduit (32/26) outer 32 mm and 3 mm thickness ISI Marked as per specification at Annexure -M	Meters	11000
2	4 Core Armoured 2.5 sq mm, multi strand copper conductor, PVC insulated Power Cable including Laying as per specification at Annexure -N	Meters	9000
3	Cat-6 Armoured Ethernet Cable compliant with latest EIA/TIA- 568-B.2-1 standard including laying in PVC Conduit 25 mm dia Medium 2 .0 mm Thick as per specification at Annexure -O	Meters	14000
4	2m wall mount Pole/angle for Camera mounting as per specification at Annexure -S	Nos.	140
5	Railway Track Trenching (1 lot)	LOT	1
6	4 Core Armoured 10sq mm, multi strand copper conductor, PVC insulated Power Cable including Laying as per specification at Annexure -W	Meters	1000
7	Installation & Commissioning	LOT	1
8	Shifting of network switches to new location as per requirement**	Nos.	10
9	Shifting of cameras to new location as per requirement**	Nos.	50