

جدول الكميات

#	Item	Quantity	
1	ANPR Camera	16	
2	ANPR System	LOT	
3	Servers	5	
4	Switch	8	
5	Cabinet	8	
6	UPS	8	
<u>المواد أعلاه هي كميات استرشادية وبالحد الأدنى شريطة تحقيق السيناريو المطلوب</u> <u>وعلى المناقص توفير جميع المواد والأجهزة والمعدات اللازمة والتمديدات وإن لم تذكر</u> <u>بهذا الجدول</u>			



COMPLIANCE SHEET					
1-ANPR CAMERA		BRAND & MODEL		COMPLIANCE	PAGE #
CATEGORY	FEATURE	TECHNICAL DETAILS			
Environmental	Ingress protection	IP67 or better			
	Operating temperature	-10°C to +50°C			
	Humidity	90%			
	Vibration resistance	Vibration resistance standard			
Construction	Tamper resistance	IK10			
	Sun protection	Sun shield/visor			
	Cable housing	Secure built-in cable housing			
	ANPR Camera sensor	Minimum 2MP			
Image	Auxiliary Camera sensor	Minimum 2MP			
	Lens	Motorized vari-focal Lens			
	Frame rate	30 FPS			
	Low light	color sensitivity of 0.01 Lux			
	Streams	At least one stream 1080P H.265/H.264			
	IR illumination	Minimum 30M			
	Power over Ethernet	Supports PoE/PoE+			
	Connectivity	Standard Network Protocols (HTTP,HTTPS,...)			
Power	Compatibility	ONVIF			
	Ease of Maintenance	Tool-less mounting, quick-release brackets, accessible connectors.			
Maintenance & Serviceability					





COMPLIANCE SHEET					PAGE #	
2-ANPR SYSTEM		BRAND & MODEL			COMPLIANCE	
CATEGORY	FEATURE	TECHNICAL DETAILS				
1. 2. 3. 4. 5.	License Plate Recognition	Capable of recognizing plates from all Middle Eastern countries.				
	Detection Accuracy	Expected to deliver an accuracy of $\geq 98\%$				
	Recognition Accuracy	Expected to deliver an accuracy of $\geq 95\%$				
	Cloned Plates Detection	Detects cloned plates by comparing readings from different cameras within a specified time frame.				
	Multiple Lanes Detection	The ability to detect and read plates from multiple lanes using a single camera.				
6. 7. 8.	Camera Brand Independent	Can integrate with various camera manufacturers.				
	Multi-Site Architecture	Supports a multi-server, multi-site setup with centralized management and viewing.				
	Automatic Failover	Supports automatic failover server functionality.				
9. 10. 11. 12.	Forensic Functionality	Supports importing video from third-party systems, extracting license plate data, and adding it to a watchlist.				
	Flexible Search	Allows partial license plate number searches when full details are unavailable.				
	Watchlist Integration	Supports unlimited watchlists				
	Data Analytics Dashboard	System come equipped with a dashboard for data analytics.				
13. 14. 15. 16.	Vehicle Attribute Recognition	Can recognize vehicle color, make, model, body type, and direction.				
	Data File Size	Produces a read file under 30KB containing the following :				
		a) Number plate string.				
		b) Number plate snapshot and vehicle snapshots.				
15. 16.	Motion Detection	c) Corresponding make, model, and color of the vehicle.				
		d) Time stamp.				
	Alarm for No Readings	e) Identification of the camera. f) Country of origin for the detected plate.				
15. 16.	Motion Detection	Optimizes data processing with motion detection functionality.				
		Generates an alarm if no readings are received within a user-defined time frame				

COMPLIANCE SHEET

17	Manual Result Matching	Displays license plate and vehicle snapshots for manual matching.			
18	Imported Watchlists Alarms	Auto-import functionality for unlimited number of watchlists and can trigger alarms for matching plates.			
19	Alarms and Alerts	Automatic Detection: The reporting tool will employ automated mechanisms to detect the status of each camera in real-time. Notification Alerts: In the event of a camera going offline, the system will generate immediate Notification Alerts to designated administrators or relevant personnel via system. Logging and History: The reporting tool will maintain a comprehensive log of camera status changes, including the timestamps of when a camera goes offline and when it is restored.			
20	Local Storage	Stores 60 days of footage and captured license plates locally at each site.			
21	Storage and Backup	Stores readings on local server if the HQ and HQ Database servers are disconnected, allowing manual backup when connection is lost.			
22	User Access	Support granular user access rights, allowing the assignment of specific access levels to different users.			






COMPLIANCE SHEET			
3- SERVERS			
BRAND & MODEL			
1	Intel Xeon silver processor 4214R or better		
2	64-bit OS, Windows server 2022.		
3	Dual power supply & FAN.		
4	32 GB RAM expandable.		
5	2x 1TB SATA SSD RAID1 configured for the operating system		
6	Ports: video, (2X10G) network ports, 1GbE dedicated remote management network port, 4X USB 3.0.		
7	Minimum 3 X PCIe gen 4		
8	The server should be able to alert impending failures on maximum number of components. The components covered under alerting mechanism should at least include Processors, memory, PCIe slots, VRMs, power supplies, fans, hard disk drives.		
9	Rack mounted.		
10	Storage for camera and ANPR recordings (Remote sites only). (It is the bidder's responsibility to select the appropriate storage size to ensure 60 days of Video recording & ANPR captured image)		
4- SWITCHES			
BRAND & MODEL			
TECHNICAL DETAILS			
1	Switch Management	Managed Switch	
2	Number of Ports	8 RJ45 ports + 2 RJ45 uplink ports/SFP	
3	Ports speed	Ethernet ports: 10/100 Mbps	
4	PoE Support	PoE+/ PoE++ (Based on cameras power consumption)	
5	Operating temperature	-10°C to +50°C	
5- CABINETS			
BRAND & MODEL			
TECHNICAL DETAILS			
1	FEATURE	Top & bottom	
2	Cable Entry	Transparent front door with Lockable door at front and sides	
3	Front door type	9U	
4	Height	Minimum one fan	
5	Fan	Rack-mounted PDU	
6	PDU		





COMPLIANCE SHEET				PAGE #
6-UPS		BRAND & MODEL	COMPLIANCE	
FEATURE		TECHNICAL DETAILS		
1	Size	Minimum 500VA (It is the bidder's responsibility to select the appropriate UPS size to ensure		
2	Topology	Online double conversion technology		
3	Input voltage	One phase 208/220/230/240 volt AC, 176-280 deviation		
4	Output voltage	Output voltage 1 phase, 220/230/240 VAC		
5	frequency	Autosensing input frequency, Output 50Hz ± 0.1 Hz		
6	I/P and p/p power factor	Input power factor ≥ 0.99 Output power factor ≥ 0.9		
7	Battery runtime at full load	Minimum of 5 minutes		
8	Features	_Automatic internal bypass rectifier -inverter combination _Monitoring UPS status through LED indicators and LCD monitor. _Sealed lead acid batteries with electronic surge protection. _Preferred to have circuit breakers for input and output voltage. _Operating temperature 0~40°		
9	Warranty	Spare parts and batteries availability must be insured		
10	Size & mounting	Preferably designed to be mounted within a data cabinet		




