إهداء صله م ٢٠٢٢/٩/٧
إدارة التحركات - تم بإلكترونيه

رقم الملف : ٢٠٢٢/٢/١٨٧

نشوف ٠٦٤ - ٣٣٩٦٢٢٢ - ٣٣٩٧٦٢٢ الاسماعيلية
هاكس : ٣٩١٤٧٨٤ / ٠٦٤ / ٣٩١٤٧٨٥ - ٢٠٠
بريد الكترونى
info@suezcanal.gov.eg
ر م٠٢ : ٧١١

إشارة كتابية

من إدارة التحركات إلى - إدارة التموين

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بالإحالة إلى إشارتكم رقم ٧٤٣٣ بتاريخ ٢٠٢٢/٨/٢٥ بخصوص موافاتكم بالمواصفات الفنية لمنظومة المراقبة بالكاميرات لقاعة الإحتفالات بمنطقة المارينا بالكم ٧٦ بعد إضافة التعديلات التى طرأت عليها فى ضوء المعاينات التى قامت بها الشركات.

يرجى التكرم بالعلم بما يلى:

- تمت معاينة الموقع مع الشركات بمعرفة مندوب إدارة الرئاسة (مسئول الموقع) بتاريخ ٢٠٢٢/٥/٢٥.

- تم عمل معاينة مشتركة للموقع بمعرفة مندوبين إدارة الرئاسة (مسئول الموقع)، وقسم الأمن، وإدارة الاتصالات، والمراقبة الالكترونية بتاريخ ٢٠٢٢/٥/٣٠ وكان بالفعل هناك تغيرات فى المتطلبات عن التى تم إفادتنا بها سابقا لتحديد مواصفات تأمين الموقع قبل الطرح.

- المتطلبات الجديدة تسببت فى تغيير تصميم منظومة المراقبة بالكاميرات حيث تم إضافة كاميرا متحركة أعلى مبنى المولدات لمراقبة المبنى الرئيسى (المركب) وكذلك توصيل عدة كاميرات على غرفة الامن المتواجدة عند البوابة الرئيسية على أن تتم المراقبة وتسجيل وعرض صورة الكاميرات بغرفة الامن.

- **تلاحظ ايضا وجود مشكلة تتمثل فى إنقطاع التيار الكهربائى عدة مرات** دون عمل المولد الاحتياطى وأفاد مسئول الموقع بأن قسم الاشغال لم ينفذ التحويل الاوتوماتيكى للمولد عند انقطاع التيار الكهربائى ونظرا لحدوث ذلك بشكل متكرر وأيضا عدم قدرة المولد على العمل لفترات طويلة فى مثل هذه الظروف تقرر أنه من الأفضل عمل المولد أثناء الزيارات لضمان انتظام التغذية الكهربية.

- تم الطلب من السيد مسئول الموقع التنسيق لعمل معاينة مع مندوب الاشغال لتحديد مدى امكانية التشغيل الاوتوماتيكى للمولد نظراً لاستحالة تركيب المنظومة فى إطار ما هو موجود من تغذية كهربائية بمبنى مسئول الموقع، ولكن حتى حينه لم نتمكن من إتمام هذه المعاينة المشتركة.

قسم المراقبة الإلكترونية		
صادر رقم : 711	بتاريخ :2022-09-07	
☐ المراكز والكاميرات الملاحية بالاسماعيلية	☑ المراكز والكاميرات الملاحية ببورسعيد	
☐ الرادارات - مراقبة إلكترونية	☐ المراكز والكاميرات الملاحية ببورتوفيق	
☐ التوقيتات والأرصاد - مراقبة إلكترونية	☐ المكتب الفنى - مراقبة إلكترونية	
☐ تطوير البرامج - مراقبة إلكترونية	☐ الامن الصناعي - مراقبة إلكترونية	
☐ صيانة الحاسبات - مراقبة إلكترونية	☐ السكرتارية - مراقبة إلكترونية	
☐ القوى - مراقبة إلكترونية	☐ الافراد - مراقبة إلكترونية	
☑ المتابعة - مراقبة إلكترونية	☐ التامين الأرضي - مراقبة إلكترونية	

٢/١

- لذا مرفق لسيادتكم المواصفات الفنية لمنظومة المراقبة بالكاميرات لقاعة الاحتفالات بمنطقة المارينا بالكم ٧٦ بعد إضافة التعديلات التى طرأت عليها فى ضوء المعاينات التى قمنا بها مع مسئول الموقع ومندوبى الأمن والاتصالات (مرفق) .

- علما بأن المواصفات المرفقة غير متضمنة أعمال الكهرباء المنوط بها إدارة الاشغال وكذلك أعمال الشبكات التى منوط بها إدارة الاتصالات على أن يتم التنسيق بينها وبين الادارة المعنية للتأكد من المسارات اللازمة لأعمال شبكة المنظومة مع الأخذ فى الاعتبار استحالة تنفيذ المنظومة فى إطار التغذية الكهربية بشكلها الحالى.
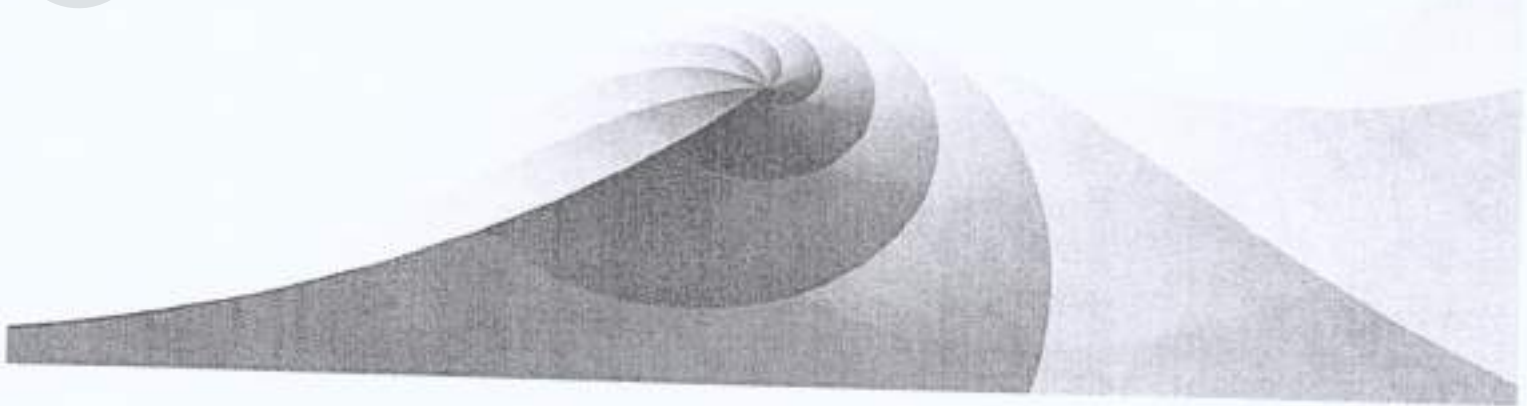
وشكرا ،،،

مدير إدارة التحركات

مهندس

(جمال السيد أبوالخير)

SUEZ CANAL

Suez Canal New Marina

Surveillance Project

(مرفق)

General

- This project is **a turnkey project**, So bidders should make a site survey and put their final proposition of cameras (positions and lenses), network equipment, Control room equipment, Electrical, lights requirements & any civil works if required taking in consideration that Suez Canal Authority's requirement stated in this tender only as the main guide line for any company's proposal with a flexibility for the companies to add some equipment that fulfill the required function after discussing it with Suez Canal Authority technical team and considered as minimum requirements.
- All the civil work required is the responsibility of the bidders.
- The bidder must supply complete datasheets for all the supplied items [Cameras – NVR – etc....] to be approved by Suez Canal Authority
- Any requirements for the bidder from Suez Canal Authority should be stated as a part of their offer.
- The bidder is responsible for the integration of all the project elements and fulfilling all the objectives stated in this tender.
- All System components should be passed the tests as mentioned in the standards Certificate of these testes should be submitted.
- **All the equipment and software delivered by the supplier are licensed and warranted to work in a good condition and function according to the specifications for a period of two years starting from a successful end of the reliability test for two months**
- If during the guarantee period any part or unit which may be damaged, deteriorated or found defective as a consequence of unsuitable material, faulty design, bad manufacture or inadequate workman shop, should be properly repaired or replaced by the supplier for free.
- Bidder must provide a complete set of manuals including installation, user manuals for each proposed item.
- All technical specifications mentioned hereunder must be considered as minimum requirements and not limited to these specifications.
- All the parts, equipment, cables and housing used in the outdoors should comply the standard rated outdoor specs.
- Bidders should submit their references in Egypt and qualifications for execution of similar projects.
- All software and Operating systems should be the latest versions taking into consideration that SCA has some software agreements and own some licenses that could affect the prices of the licenses.
- **AGAIN**, the bidder is responsible for the integration of all the project elements and fulfilling all the objectives stated taking into consideration that the project is a turnkey project and any requirements to accomplish these objectives and not stated in the company requirement list from SCA side will be the responsibility of the bidders to deliver it (i.e., **The bidder should add any additional equipment necessary to fulfill the design and functions).**

Overall System

1. Open architecture system compatible with most famous camera vendors and ONVIF support.
2. IP network, Full High-definition camera system
3. Simultaneous recording, playback, live view, operation and remote access at same time without any adverse effect on any of the functions.
4. All cameras should be displayed in the main control room on at least 42-inch monitors as 16 cameras per monitor.
5. Events need to be detected (Motion detection, Cross line in one or both directions), more events can be added if needed.

6. Events should be configured to be detected continuous or on scheduled basis to be activated for all day or part of the day depend on the covered area conditions
7. Events detection parameter should be configurable by administrator as sensitivity level, motion direction, minimum object size, etc.
8. The bidder should provide USB keyboard and mouse and joystick to be used for camera control.
9. The system should provide high quality video for video surveillance with no frame losses with minimum latency.

Project Items and Specifications

Network Video Recorder	1. IP video input 64ch 2. Decoding Format H.265+, H.265, H.264+, H.264, MPEG4 Video Formats. 3. Up to 12 MP high-definition live view, storage and playback 4. Video output: two different output 2-ch HDMI at least (1920×1080) 5. UPTO 128 Remote Connections 6. VCA Detection Alarm and VCA Search 7. Instant Camera Playback during Multi-Channel Live View 8. 16-ch Synchronous Playback 9. Reverse Playback for Multi-Channels 10. Smart Search and Playback for Efficiency 11. Customization of Tags, Searching, and Playing Back by Tags 12. Alarm IN/OUT 16/4 13. HDD Quota and Group Management 14. Third-Party Network Cameras Supported 15. HDD Hot-Swap with Configurable RAID0, RAID1, RAIDS, RAID6, RAID10 16. 8 SATA interfaces for 8 HDDs, Capacity Up to 10 TB capacity for each HDD. 17. 2xLAN Interface, RJ-45 10/100/1000 Mbps self-adaptive Ethernet interfaces 18. 19-inch rack-mounted 2U / 3Uchassis 19. Support Multi-screen display in live view, and the display sequence of channels is adjustable 20. Basic Event alarms (motion detection, line cross in one or both directions) 21. Alarm for video loss, motion detection, tampering, abnormal signal, video input/output standard mismatch, illegal login, network disconnected, IP confliction, abnormal record/capture, HDD error, and HDD full, etc. 22. Import and export device configuration information 23. Should be capable of supporting user operations simultaneously without degrade of performance. This includes live viewing, recording, playback, configuration, camera control, archiving of video data export to an external storage device. 24. Digital zoom capability on both live and playback videos. 25. Export recorded video to external media with the same recorded quality. 26. Codec support: H.264, Motion JPEG. 27. Video can be recorded by: user activated, continuous, event activated trigger (by motion or alarm) and scheduled. 28. Should support ONVIF for live stream and recording. 29. **Sufficient storage size for all camera recordings for minimum period of 30 days with recording resolution 1080p at 25 fps with addition 20% of free disk space with raid 5.** 30. Supports view all channels via the remote client or web browser 31. The bidder should supply USB Mouse for each NVR. 32. The bidder should supply USB extension for each mouse with suitable length.

Outdoor Camera	- Image sensor: Progressive scan CMOS 1/2.8" - Lens: Motorized Varifocal (2.8:12mm): Horizontal view 90° - 35° - Bullet camera - WDR: 120 dB - Day and night: Automatically removable infrared-cut filter - Built-in IR illuminator Range at least 60 m (If no built-in IR exist, adding external IR with the same ranges is accepted) - Minimum illumination: Color: 0.01 lux, 0 lux with IR - Video compression: H.264, M-jpeg - Resolutions: 1920X1080 HDTV - Frame rate: Up to 25/30 fps in all resolutions - Video streaming: Multiple, individually configurable streams in H.264 - Security: Password protection - Supported protocols: IPv4/v6, HTTP, HTTPS, DNS, NTP, TCP, UDP, DHCP - Video Motion Detection - Casing: IP67, IK10 - Power: power over Ethernet IEEE - Connectors: RJ45 POE - Memory card slot: Support for card types SD/SDHC/SDXC or micro up to 128GB. - Support fourth stream - ONVIF Conformant Profile G/S for live stream and recording. - Junction box if needed or any other accessories or equipment required to drive the camera should be delivered as part of the camera from the same vendor - Deep Learning Function: - Face Capture - Perimeter Protection: Line crossing detection, intrusion detection, region entrance detection, region exiting detection
Indoor Camera	- Image sensor: Progressive scan CMOS 1/2.8" - Lens: Motorized Varifocal (2.8:12mm): Horizontal view 90° - 35° - Bullet/Dome camera upon site survey - WDR: 120 dB - Day and night: Automatically removable infrared-cut filter - Built-in IR illuminator Range at least 40 m - Minimum illumination: Color: 0.01 lux, 0 lux with IR - Video compression: H.264, M-jpeg - Resolutions: 1920X1080 HDTV - Frame rate: Up to 25/30 fps in all resolutions - Video streaming: Multiple, individually configurable streams in H.264 - Security: Password protection - Supported protocols: IPv4/v6, HTTP, HTTPS, DNS, NTP, TCP, UDP, DHCP - Video Motion Detection - Casing: IP67, IK10 - Power: power over Ethernet IEEE - Connectors: RJ45 POE - Memory card slot: Support for card types SD/SDHC/SDXC or micro up to 128GB. - Support fourth stream - ONVIF Conformant Profile G/S for live stream and recording. - Junction box if needed or any other accessories or equipment required to drive the camera should be delivered as part of the camera from the same vendor

	• Deep Learning Function:
	  ➢ Face Capture
	  ➢ Perimeter Protection: Line crossing detection, intrusion detection, region entrance detection, region exiting detection

PTZ Camera	• Image sensor 1/1.8" progressive scan CMOS
	• Day and night automatically removable infrared-cut filter
	• Minimum illumination: Color: 0.001 lux, B/W: 0.0005 lux
	• Built-in IR illuminator Range up to 400 m
	• Pan/Tilt/Zoom Pan: 360° endless 42x optical zoom and 16x digital zoom.
	• Video compression: (Main, Sub, Third Streams) H.264, H.265 ,
	• Resolutions HDTV 1920x1080
	• Frame rate Up to 25/30 fps in all resolutions
	• Video streaming Multiple, individually configurable streams in H.264 and Motion, JPEG
	• WDR 140 dB
	• Security Password protection.
	• Supported protocols IPv4/v6, HTTP, HTTPS, DNS, NTP, TCP, UDP, DHCP and ARP.
	• Event Motion detection, Smart Auto tracking
	• Casing IP67, IK10
	• **Power POE (Power over Ethernet)**
	• Connectors: RJ45 Poe
	• Memory card slot Support for card types SD/SDHC/SDXC or micro up to 128GB.
	• ONVIF Conformant Profile G/S. for live stream and recording
	• Same brand mounting kits.
	• The midspan Poe Injector if needed or any other accessories or equipment required to drive the camera should be delivered as part of the camera.
	• **Deep Learning Function:**
	  ➢ Face Capture
	  Detects up to 30 faces simultaneously. Supports detecting, tracking, capturing, grading, selecting of face in motion, and output the best face picture of the face
	  ➢ Perimeter Protection
	  Line crossing, intrusion, region entrance, region exiting
	  ➢ Support alarm triggering by specified target types (human and vehicle)

Monitor	- LED 42" for display cameras as 16 cameras per monitor to display any required action. - 4k UHD - DP/HDMI (any other ports to accomplish the function is mandatory) - Very narrow bezels - **24/7 heavy duty** - The bidder should supply all the accessories and equipment required to drive the monitors (movable wall mount if needed, converters,). - The bidder is responsible for supply 4 HDMI cables (**ATEN or Extron**) with suitable length to drive the monitors
Rack System	• **Need 6U for 2 NVR in control room** (على أن يقوم مندوب ادارة الاتصالات بتحديد سعة الراك المناسب بعد اضافة أجهزة الشبكات الخاصة به)
Power	All equipment should have UPS power supply على أن يقوم مندوب ادارة الاتصالات بتحديد قدرة **Loads in control room for NVRs and Screens are 2000-watt** جهاز UPS المناسب بعد استقة أحمال أجهزة الشبكات الخاصة به All cameras have Power over Ethernet

		1. Turnkey project
Installation		2. Configurations and settings of all system components (cameras, ...) will be done by Bidder
		3. System installations for all hardware component will be done by Bidder (Cameras, Screens, ...)
		4. Pass two months reliability test period after installations.
		5. warranty for 2 years after successful reliability period

BOQ:

Item	Item Description	Brand / Origin	QTY
1	Outdoor Bullet camera	Hikvision / Dahua	28
2	Indoor Bullet/Dome camera	Hikvision / Dahua	14
3	PTZ	Hikvision / Dahua	1
4	NVR	Hikvision / Dahua 64 Channel	2
5	Joystick	Hikvision / Dahua	1
6	Camera Displays	At least 42" Monitor Samsung – LG	4
7	Camera Masts (if needed)	Certified according to Egyptian code.	Number depends on bidder design
8	Installation Materials		Bidder design
9	Rack	Class A Rittal, Panduit, CommScope and Schneider	TBD
10	UPS	EU-USA-Japan	TBD

- The previous quantities are the minimum and the bidder should put the required number of equipment and material in his offer to achieve the functionality of the system target.
- Providing all installation requirements is the responsibility of the bidder.
- The bidder should supply console (for 1 operator) with long shift chair (Reyadco/Mobika).
- Camera distribution as (13 indoor camera and 22 outdoor cameras as described in drawing below), in addition to 6 outdoor cameras around the external gate & 1 indoor camera in the control room & 1 PTZ on Generator room.
- All cameras have Power over Ethernet.
- The bidder must provide the certificate of origin from the vendor of equipment.
- The system design should be approved by the vendor.
- The vendor should have certified maintenance center in Egypt.

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- يتم تحديد مستلزمات الشبكات من أجهزة وملحقاتها والمسارات الخاصة بالكابلات بواسطة مندوب ادارة الاتصالات بالتنسيق مع ادارة الاشغال.
- يتم تحديد متطلبات تجهيز غرفة التحكم وأي أعمال مدنية من مواصفات وخلافه بواسطة مندوب ادارة الاشغال.
- يتم تحديد المتطلبات الكهربية لجميع الأجهزة و كابلات الكهرباء و نظام الارضي للمشروع من مواصفات وخلافه بواسطة ادارة الاشغال.

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