

Digital Monitor System For SGC

- 1. Location A (SGC Center) in Khour Al-Zubair**
- 2. Location B (NGL) in North Rumella**
- 3. Location C (Bulk Storage) in O'm Qa'ser**
- 4. Location D (Shipments and loading Terminals) in O'm Qa'ser .**

Conditions must be required : -

- All Parts of the System have designed to work in hazardous area H2S , NGL & LPG Plants (Spark , Explosion , Dust , Rain , Corrosion and Erosion Proof) . Class 1 / Division 1 or Class2 / Division1 .
- Complete Installation , Programming , Final operation & Commissioning for all Locations .
- All Cables , fittings , J-Boxes , Stands , trays ...etc and all accessories should be supplied .
- Size of display monitor able to display all sub locations at the same time or each location separately with divider monitor 16 zone at least .
- The Cameras are able to rotate right , left , up , down by control gear as operator want and able to stop on a certain point ,32 X at least , 12 mega pixel at least , vision night and another features .
- The Camera can be tested in the same position
- Must increase the Qty of camera in order to cover all directions for each location if need ..
- Guarantee for one year after final commissioning .
- training and witness for 6 person (2 weeks) outside of Iraq on monitoring system (types , installation , setup ...etc) .
- Power Supply , Charger and Battery Charger , UPS work 8 Hours at least when main power is failure .
- The Cameras should work on two time (Day & Night) with Light cell .
- Computer on line with system with desk table : P4 HP , Desktop, corei5, M B Intel , processor 3.5 GHz ,display card 4 GB , Ram 6 GB , HD : 500 GB , DVD W/R , Monitor 20" LCD HP , with Windows7 original and Kaspersky Anti Virus Original , UPS 1500 VA Smart for each location (A , B , C , & D) , and three Laptop for locations (A , B , C) with same descriptions of computers above to test Camera .
- Portable tester of cameras and complete tools kit for maintenance (Qty : four) .
- All documentations of installation , operation programming , setup , wiring diagram (CD & hard copy in English) for each location (A , B , C , & D) one copy .
- Spare Parts at least 10% of all parts of each system in location (A , B , C , & D) .
- You can take a survey for all locations above to help you in your design and you can increase the quantities of monitors or cameras according to sub locations have been explained in the tables shown below for each location (A ,B , C , & D) in order to submit optimum offer .
- Origin: USA, JAPAN, KOREA, GERMANY, FRANCE OR UK.
- Video Records should be saved for 30 days at least , this applied to all cameras in the location.
- The time must be Complete Installation , Programming , Final operation & Commissioning for all Locations **not more 30 days** .
- Type of Camera wire or wireless depended of visiting location (50% Wire & 50% Wireless) .

Item	Locations	QTY Of Camera	QTY Of Monitors
1.	Locations A	64	5
2.	Locations B	48	4
3.	Locations C	49	4
4.	Locations D	23	2
Total		184	15

Planning of Distribution and Qty's for Location A (SGC Center) :-

Item	Sub Location Name	Qty of camera	Qty of Monitor	
1	11.1	5	FIVE monitors size of 62 “ should be distributed as follow: <ul style="list-style-type: none"> • 3 monitors located in CCR • 1 monitors located in Relations Building • 1 monitors located in Ingco & Negate Factory 	
2	11.2	5		
3	LPG Loading	2		
4	20	5		
5	12.1	3		
6	12.2	3		
7	12.3	3		
8	61	10		
9	50	3		
10	68	1		
13	External Fence	12		
14	Ingco & Negate Factory	12		
Total		64		5

Planning of Distribution and Qty's for Location B (North Rumella):-

Item	Sub Location Name	Qty of camera	Qty of Monitor
1	C1	2	FOUR monitors size of 62 “ should be distributed as follow : <ul style="list-style-type: none"> • 3 monitors located in CCR • 1 monitors located in Relations Building
2	C2	2	
3	F1	4	
4	P4	4	
5	P5	4	
6	P6	4	
7	F3	3	
8	F4	3	
9	P2	4	
10	P3	3	
11	P1	3	
12	Propane Improve	2	
13	Propane Cooling	2	
14	B . Down	3	
15	External Fence	5	
Total		48	4

Planning of Distribution and Qty's for Location C (Bulk Storage)

Item	Sub Location Name	Qty of camera	Qty of Monitor
1.	Refrigeration system	6	<p>FOUR monitors size of 62 “ should be distributed as follow :</p> <ul style="list-style-type: none"> • 3 monitors located in CCR • 1 monitors located in Relations Building
2.	Refrigeration & Cooling of Water	3	
3	Natural Gasoline Tank	4	
4	N2 Station	1	
5	Air Compressor	1	
6	Loading Pumps	2	
7	Propane & Butane refrigeration Storage	9	
8	Reverse Osmosis System	1	
9	IRT Spherical Store Tank	4	
10	Spherical Delivery Tank	2	
11	Main Reverse Pumps	1	
12	Booster Reverse Pumps	1	
13	Fire Fighting System	1	
14	Natural Gasoline Station	1	
15	Main Gate	1	
16	Store	4	
17	Corner	4	
18	External fence	3	
Total		49	4

Planning of Distribution and Qty's for Location D (Shipments & loading Terminals) :-

Item	Sub Location Name	Qty of camera	Qty of Monitor
1.	Berth 1	3	<p>TWO monitors size of 62 “ should be distributed as follow :</p> <ul style="list-style-type: none"> • 1 monitors located in CCR • 1 monitors located in Relations Building
2.	Berth 2	3	
3.	Service port	2	
4.	Sea Water Pump	1	
5.	Utility Area	1	
6.	Boosters Area	1	
7.	Al – Jazrah	1	
8	Reveres Osmosis (R.O)	1	
8.	Main Gate	2	
9.	Corner	4	
10.	External fence	2	
11.	Store	2	
Total		23	2

Planning of Distribution and Qty's for station gas compression in location field North Rumella:

Item	Sub Location Name	Qty of camera	Qty of Monitor
1	Cs1	8	one monitors size of 62 “ with DVR 16 channel for each station
2	Cs2	8	
3	Cs3	8	
4	Cs4	8	
5	Cs5	8	
6	Cs6	8	
7	Cs7	8	
8	Cs8	8	
Total		64	8

Planning of Distribution and Qty's for station gas compression in location field south Rumella:

Item	Sub Location Name	Qty of camera	Qty of Monitor
1	Southern	8	one monitors size of 62 “ with DVR 16 channel for each station
2	Central	8	
3	Alkuraynat	8	
4	Alshameya	8	
5	alragtaa	4	One monitor 42” with DVR 8 channel
Total		36	5

Planning of Distribution and Qty's for station gas compression in location field Zubair :

Item	Sub Location Name	Qty of camera	Qty of Monitor
1	zubair	4	one monitors size of 42” with DVR 8 channel for each station
2	Zubair mushrif	4	
3	Hammar	4	
4	Hammar mushrif	4	
5	Alrafdiya	4	
6	Bin umer	4	
Total		24	6

No. of distribution camera along the pipe between storage & Marin :

Item	Location Name	Qty of camera
1	Storage pipe	5
2	Marin pipe	5
Total		10

Total number of camera and monitor for all location above:

Item	Location Name	Qty of camera	Qty of Monitor
1	<u>North Rumella</u>	64	8
2	<u>south Rumella</u>	36	5
3	<u>Zubair</u>	24	6
Total		134	19

ملاحظة :-

- العدد الكلي للكاميرات في جميع مواقع الشركة هو: 318 فقط .
- العدد الكلي لشاشات المراقبة في جميع مواقع الشركة هو: 34 فقط .