

CONTROL SYSTEM FOR FOR GAS COMPRESSOR STATION OF BINAK

Bill Of Material (Honeywell)

No.	Description	Article number	Vendor	main	Spare For commissioning	Spare For Two Years(OPTION)
1 PKS Server						
1.1	R730 Server (Rack munt) CPU: 2x 2core Intel Xeon E5-2600 V4 2.5MB Cash RAM: 32 GB DDR4 HDD: 4x4 TB Raid1 DVD: DVD+/-RW Drive Graphic: NVIDIA Geforce GT730 2GB HDMI-VGA-LAN-Audio USB 2.0/3.0 4x Network 10/100 GB Ethernet port Interface: Keyboard / Mouse (optical) OS: English Win 10	Power Edge R730 (DCS PKS Server)	DELL	2	-	-
1.2	19"LCD	P1917S	DELL	1	-	-
2 EWS/ Engineering Workstation						
2.1	CPU: Intel Xeon E5 2680 v4 14cores 28-Thread 35MB Cache RAM: 8 GB HDD: 1 TB DVD: DVD+/-RW Drive NVIDIA QUADRO , 2x USB 2.0, 4x USB 3.0, RJ-45 to Integrated GbE one, 1x IEC power connection, 2x PS/2 Maus Tastatur, 1x Sound Out, 1x Sound in, 1x Mic (2x Front) Interface: Keyboard / Mouse (optical) OS: English Win 10	Z440	HP	1	-	-
2.2	32"LED	S3219D	DELL	1	-	1
3 OWS/ Operator Workstation						
3.1	CPU: Intel Xeon E5 2680 v4 14cores 28-Thread 35MB Cache RAM: 8 GB HDD: 1 TB DVD: DVD+/-RW Drive NVIDIA QUADRO , 2x USB 2.0, 4x USB 3.0, RJ-45 to Integrated GbE one, 1x IEC power connection, 2x PS/2 Maus Tastatur, 1x Sound Out, 1x Sound in, 1x Mic (2x Front) Interface: Keyboard / Mouse (optical) OS: English Win 10	Z440	HP	2	-	-
3.2	32"LED	S3219D	DELL	4	-	1
3.3	Large Screen 64"	Available Model	Samsung/equal	1	-	-
3.4	DCS/ESD maintenance Laptop as per project Spec (including required softwares and Software Licenses)	Thinkpad E580	Lenovo	1	-	-
4 Control Software License						
4.1	Software license to cover all project requiemnts	-	SUBTEK	1 Lot	-	-
5 System Hardware List						
5.1 DCS Honeywell List						
5.1.1	C300 Controller	CC-PCNT02	Honeywell	2	-	1
5.1.2	C300 Controller IOTA	CC-TCNT01	Honeywell	2	-	1
5.1.3	REDUNDANT POWER SUPPLY INPUT 115/230 VAC	DU-PWPR21	PHOENIX	2	-	1
5.1.4	Control Firewall Module, 8Port+1uplink (for cyber security)	CC-PCF901	Honeywell	2	-	1
5.1.5	Control Firewall IOTA, 8Port+1uplink	CC-TCF901	Honeywell	2	-	1
5.1.6	HART Analog Input Module, High-Level	CC-PAIH51	Honeywell	11	-	1
5.1.7	HART Analog Output Module	CC-PAOH51	Honeywell	4	-	1
5.1.8	Digital Input 24V Module	CC-PDIL51	Honeywell	7	-	1
5.1.9	Digital Output 24V Bussed Out 32 Module	CC-PDOB51	Honeywell	5	-	1
5.1.10	Analog Input IOTA (16)	CC-TAIX51	Honeywell	3	-	1
5.1.11	Analog Input IOTA, Red., (16)	CC-TAIX61	Honeywell	4	-	1
5.1.12	Analog Output IOTA (16)	CC-TAOX51	Honeywell	-	-	1
5.1.13	Analog Output IOTA, Red., (16)	CC-TAOX61	Honeywell	2	-	1
5.1.14	Digital Input 24V IOTA, (32)	CC-TDIL51	Honeywell	7	-	1
5.1.15	Digital Input 24V Buss IOTA, Red., (32)	CC-TDIL61	Honeywell	-	-	1
5.1.16	Digital Output 24V Buss IOTA (32)	CC-TDOD51	Honeywell	3	-	1
5.1.17	Digital Output 24V Buss IOTA, Red., (32)	CC-TDOD61	Honeywell	1	-	1
6 Cabinets & Major Accessories						
6.1 Cabinets for DCS						
6.1.1	System Cabinet 2100mmx800mmx800mm,100mm Plinth ,IP54	RITTAL Type	Local	1	-	-
6.1.2	Marshalling & IRP Cabinet 2100mmx800mmx800mm,100mm Plinth,IP54	RITTAL Type	Local	6	-	-
6.1.3	DC Power supply 110~230VAC to 24VDC 20A (FOR Marshalling & IRP Cabinet)	2938620	Phoenix	2	1	1
6.1.4	24VDC OUTPUT DIODE QUINT-DIODE/12-24DC/2X20 (FOR Marshalling & IRP Cabinet)	2320157	Phoenix	1	1	1
6.1.5	Fuse Type Terminal	RFT 5	RAAD	510	50	50
6.1.6	Fuse Element	-	-	510	50	50
6.1.7	Knife Type Terminal	RTP 2.5	RAAD	510	50	50

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No.	Description	Article number	Vendor	main	Spare For commissioning	Spare For Two Years(OPTION)
7 Cabinets for PDP						
7.1	POWER DISTRIBUTION CABINET UPS 110V AC (UPS A) (RITTAL Cabinet 80*80*210) WITH CIRCUIT BREAKER AND ALL NEEDED FUSES ACCORDING TO LCR GENERAL LAYOUT.THIS PROJECT AND FUTURE PANELS.(ALMOST 30 PANELS) FAN AND FILTER AND LIGHT, VOLTAGE AND CURRENT METER.	-	RITTAL Type	1	-	-
7.2	POWER DISTRIBUTION CABINET UPS 110V AC (UPS B) (RITTAL Cabinet 80*80*210) WITH CIRCUIT BREAKER AND ALL NEEDED FUSES ACCORDING TO LCR GENERAL LAYOUT.THIS PROJECT AND FUTURE PANELS.(ALMOST 30 PANELS) FAN AND FILTER AND LIGHT, VOLTAGE AND CURRENT METER.	-	RITTAL Type	1	-	-
8 Panels/Consols						
8.1	Desks & Chair (For workstations) & Printers	-	-	6	-	-
9 Network Components & Cables						
9.1	Network Cabinet 2100mmx800mmx800mm,100mm Plinth	RITTAL Type	Local	1	-	-
9.2	16-Port Switch	EDS-518A	Moxa	2	1	1
9.3	2Port serial-to-Ethernet Modbus gateways	MGate MB3280	Moxa	2	-	1
9.4	Control Network Cable (twists)	-	-	1Lot	-	-
9.5	Serial Cable	-	-	1Lot	-	-
10 DCS Barriers/ Relay						
10.1	Barrier For AI	KCD2-STC-EX1	P&F	200	2	2
10.2	Barrier For AO	KFD2-SCD2-EX1.LK	P&F	37	1	1
10.3	Relay Module	2966171	Phoenix	174	1	1
11 PRINTER						
11.1	Printer B&W LaserJet : Type : B/W LaserJet Pro P1108 size supported : A4 Printing Speed : 21 ppm (black-and-white) Resolution : 600 dpi B/W Monthly duty cycle : 30'000 pages Interface : USB, 1 Parallel, Centronics type, 1 IEEE 802.3 Ethernet LAN	P1108	HP	2	-	-
11.2	Printer Color Laser Printing Speed : 18 ppm size supported : A4 Resolution : 600 dpi Monthly duty cycle : 32'000 pages Interface : USB, 1 IEEE 802.3 Ethernet LAN	M255nw	HP	1	-	-