


 ATRIN RADMEHR	Fire and Gas System	 ماشین سازی اراک
	Development Plan of 28 Reservoirs / BIBI HAKIMEH Oilfield (EPC)	
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ATRIN RAD MEHR



ISO 9001: 2015

TECHNICAL OFFER DESALTING



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Desalting Unit No.2



No.	Description	Tag No.	Qty	Unit Price (€)	Total Price (€)
Building Area					
1	Addressable Smoke Detector with Base Model: Discovery - P/N: 58000-600 Operating voltage: 17 V - 28 Vdc Quiescent Current: 300 µA Alarm Indication: Two clear 360° LED, Red in alarm Operating Temperature: -40°C to +70°C Material: White flame-retardant polycarbonate Ingress Protection: IP44 Approvals: LPCB, EN 54-7, Vds Standard Base: 45681-210 Made: APOLLO / UK Accessories: ABS Back Box, ABS Cable Gland, SS Tag plate	D2-SD-02-02 ~4	3	***	***
2	Addressable Audible Alarm for Safe Area P/N: 55000-001 Operating voltage: 17 to 28V DC Sound output: 92dB(A) and 100dB(A) Quiescent current at 24V: <333µA Material / Color: Polycarbonate / Red Operating Temperature: - 10°C to +55°C Humidity: 0 to 95% Relative Humidity (no condensation) Ingress Protection: IP 65 Approval: EN54-3 & LPCB Made: APOLLO / UK Accessories: Cable Gland, SS Tag plate, sun-shade (for outdoor equipment's)	D2-BL-02-04	1	***	***
3	Liner Heat Detector Model: ProReact Digital LHD Alarm Temperature: 88°C Voltage Rating: 24 VDC Twisted pair of low resistance, tri-metallic conductors, sheathed in advanced temp. sensitive polymers, PVC outer sheath Electrical connection: Two wires Approval: FM, UL, ULc Made: THERMOCABLE / UK Accessories: Exe IP65 Junction Box, Zener Barrier, clips, Fastener	D2-LHD-02-01 ~02	2 Set 50 M	***	***
3.1	Termination Junction Box for Liner Heat Detector Safe Area / IP54 Material: Aluminum Manufacturer: MD (Iran)	Used For D2-LHD-02-01 ~02	2 Set	***	***
4	Red Flashing/ Beacon (Fire) For Safe Area P/N: EVC50-21J-24VDC-R-R Type: 21J Xenon Beacon Operating Voltage: 24Vdc	D2-RF-02-02~03	2	***	***

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	Power consumption: 300mA Flash Rate: 60per-min Effective Intensity: 350Cd Body Material: Die-Cast aluminum Body/Lens color: Red RAL3000 / Red Protection: IP66 Operating temp: -20°C to +60°C Cable Entry: ¾ (M20x1.5 by adaptor) Approval: ATEX; II2G Ex db IIC T6 Made: KROMAMEC / ITALY Accessories: Lens Guard, sun-shade, Mounting Accessories, Exd Cable Gland, S.S Tag Plate				
5	Red Flashing/ Beacon (Fire) For Safe Area P/N: EVC50-21J-24VDC-R-R Type: 21J Xenon Beacon Operating Voltage: 24Vdc Power consumption: 300mA Flash Rate: 60per-min Effective Intensity: 350Cd Body Material: Die-Cast aluminum Body/Lens color: Red RAL3000 / Red Protection: IP66 Operating temp: -20°C to +60°C Cable Entry: ¾ (M20x1.5 by adaptor) Approval: ATEX; II2G Ex db IIC T6 Made: KROMAMEC / ITALY Accessories: Lens Guard, sun-shade, Mounting Accessories, Exd Cable Gland, S.S Tag Plate	D2-RF-02-01	1	***	***
6	Gas Detector with Display – H2 Model: Xgard Bright Sensor Type: Pellistor (Catalytic) Gas Type / Range: Hydrogen (H2) / 0-100% LEL Power: 10-30Vdc. 3W max Electrical Output: 4-20 mA – Relay (Pre-Alarm, Alarm, Fault) Repeatability: +/- 2% FSD Response time: T90 ≤30s Operating temperature: -40°C to +70°C Humidity: 0 to 95% RH non-condensing Enclosure material: ADC 12 aluminum alloy Cable entry: 2xM20 Ingress protection: IP65 Standard: ATEX, IECEx; Ex II 2 G Ex db IIC T6 Gb Made: CROWCON / UK Accessories: Cable Gland, Name Plate	P2-HGD-02-01	1	***	***
7	Manual Alarm Call Point Weather Proof-Outdoor Model: EFDC (1SE) Function Type: break glass Operating voltage: up to 690VAC - 220VDC Quiescent Current: max. 16 A Material / Color body: Aluminum / Red Operating Temperature: - 20°C to +60°C Ingress Protection: IP66 Approvals: ATEX; Ex d IIC Gb - II 2G Made: COSIME / ITALY Accessories: Exd Brass gland, S.S Tag plate	D2-MCP-02-01~02	2	***	***

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8	Audible Alarm for Safe Area Model: SONOS – P/N: PSS-0020 Operating Voltage: 9-60V DC Max Sound Output: 106dB (A) Number of Tune: 32 Sounder Current: 4-41mA Material: Flame Retardant polycarbonate Operating Temp: -25°C to +70°C IP Rating: IP65 Approvals: LPCB, NF, EN54 Made: KLAXON BY APOLLO/ UK	D2-HOR-02-01 ~ 02	2	***	***
Process Area					
9	UV/IR Flame Detector Model: Model: FGard UVIR – P/N: FD-UVIR-A-M25 Spectral Range: UV; 0.185 to 0.300 nm; IR; 4 µm to 5 Field of view: Horizontal 100°; Vertical 80° Response time: Typically, 5 seconds sensitivity for 0.1 m2 N-Heptane pan fire: 25m Power supply: 24 VDC nominal (18-32 VDC) / 3 W Outputs: 4-20mA, Alarm & Fault Relays, HART Visual Status Indicator: 3 color LED (No Display) Humidity: Up to 100% non-condensing Operating Temp.: -60 °C to +85 °C Cable entries: M25 x 1.5 mm ISO Material/Color: Die-Cast aluminum/Red Ingress Protection: IP66 Approvals: SIL2, ATEX IECEx; Ex II 2 G Ex db IIC T4 Gb Made: CROWCON / UK Accessories: bracket, Mounting Accessories, Sunshade, Ex Cable glands, S.S tag plate	DU2-FD-01-01~35	35	***	***
10	Liner Heat Detector Model: ProReact Digital LHD Alarm Temperature: 88°C Voltage Rating: 24 VDC Twisted pair of low resistance, tri-metallic conductors, sheathed in advanced temp. sensitive polymers, PVC outer sheath Electrical connection: Two wires Approval: FM, UL, ULc Made: THERMOCABLE / UK Accessories: Exe IP65 Junction Box, Zener Barrier, clips, Fastener	DU2-LHD-01-02 DU2-LHD-01-03	3 Set 20 M	***	***
10.1	Termination Junction Box for Liner Heat Detector Safe Area / IP54 Material: Aluminum Manufacturer: MD (Iran)	Used For DU2-LHD-01-02 DU2-LHD-01-03	3 Set	***	***
11	Combustible Gas Detectors Infrared Absorption (CH4) Model: Xgard Bright Sensor Type: Infra-Red Gas Type / Range: Methane (CH4) / 100 ppm Power: 10-30Vdc. 3W max Electrical Output: 4-20 mA – Relay (Pre-Alarm, Alarm, Fault) Repeatability: +/- 2% FSD Response time: T90 ≤30s	DU2-FGD-01-01 ~ 24	24	***	***

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	Operating temperature: -40°C to +70°C Humidity: 0 to 95% RH non-condensing Enclosure material: ADC 12 aluminum alloy Cable entry: 2xM20 Ingress protection: IP65 Standard: ATEX, IECEx; Ex II 2 G Ex db IIC T6 Gb Made: CROWCON / UK Accessories: Name Plate				
12	Toxic Gas Detector(H2S) Model: Xgard Bright Sensor Type: Electrochemical Gas Type / Range: Hydrogen Sulphide (H2S) / 100 ppm Power: 10-30Vdc. 3W max Electrical Output: 4-20 mA – Relay (Pre-Alarm, Alarm, Fault) Repeatability: +/- 2% FSD Response time: T90 ≤30s Operating temperature: -40°C to +70°C Humidity: 0 to 95% RH non-condensing Enclosure material: ADC 12 aluminum alloy Cable entry: 2xM20 Ingress protection: IP65 Standard: ATEX, IECEx; Ex II 2 G Ex db IIC T6 Gb Made: CROWCON / UK Accessories: Name Plate	DU2-TGD-01-01 ~ 24	24	***	***
13	Yellow Flashing / Beacon (Gas) P/N: EVC50-21J-24VDC-R-Y Type: 21J Xenon Beacon Operating Voltage: 24Vdc Power consumption: 300mA Flash Rate: 60per-min Effective Intensity: 350Cd Body Material: Die-Cast aluminum Body/Lens color: Red RAL3000 / Yellow Protection: IP66 Operating temp: -20°C to +60°C Cable Entry: ¾ (M20x1.5 by adaptor) Approval: ATEX; II2G Ex db IIC T6 Made: KROMAMEC / ITALY Accessories: Lens Guard, sun-shade, Mounting Accessories, Exd Cable Gland, S.S Tag Plate	DU2-RG-01-07 ~ 07	7	***	***
14	Red Flashing/ Beacon (Fire) P/N: EVC50-21J-24VDC-R-R Type: 21J Xenon Beacon Operating Voltage: 24Vdc Power consumption: 300mA Flash Rate: 60per-min Effective Intensity: 350Cd Body Material: Die-Cast aluminum Body/Lens color: Red RAL3000 / Red Protection: IP66 Operating temp: -20°C to +60°C Cable Entry: ¾ (M20x1.5 by adaptor) Approval: ATEX; II2G Ex db IIC T6 Made: KROMAMEC / ITALY	DU2-RF-01-01 ~ 07	7	***	***

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	Accessories: Lens Guard, sun-shade, Mounting Accessories, Exd Cable Gland, S.S Tag Plate				
15	Blue Flashing / Beacon (Toxic) P/N: EVC50-21J-24VDC-R-B Type: 21J Xenon Beacon Operating Voltage: 24Vdc Power consumption: 300mA Flash Rate: 60per-min Effective Intensity: 350Cd Body Material: Die-Cast aluminum Body/Lens color: Red RAL3000 / Blue Protection: IP66 Operating temp: -20°C to +60°C Cable Entry: ¾ (M20x1.5 by adaptor) Approval: ATEX; II2G Ex db IIC T6 Made: KROMAMEC / ITALY Accessories: Lens Guard, sun-shade, Mounting Accessories, Exd Cable Gland, S.S Tag Plate	DU2-RT-01-01 ~07	7	***	***
16	Manual Alarm Call Point Model: EFDC (1SE) Function Type: break glass Operating voltage: up to 690VAC - 220VDC Quiescent Current: max. 16 A Material / Color body: Aluminum / Red Operating Temperature: - 20°C to +60°C Ingress Protection: IP66 Approvals: ATEX; Ex d IIC Gb - II 2G Made: COSIME / ITALY Accessories: Exd Brass gland, S.S Tag plate	DU2-MCP-01-01 ~14	14	***	***
17	Addressable Audible Alarm for Safe Area P/N: 55000-001 Operating voltage: 17 to 28V DC Sound output: 92dB(A) and 100dB(A) Quiescent current at 24V: <333uA Material / Color: Polycarbonate / Red Operating Temperature: - 10°C to +55°C Humidity: 0 to 95% Relative Humidity (no condensation) Ingress Protection: IP 65 Approval: EN54-3 & LPCB Made: APOLLO / UK Accessories: Cable Gland, SS Tag plate, sun-shade (for outdoor equipment's)	DU2-HOR-01-01 ~ 7	7	***	***

COMMERCIAL TERMS

- **Validity: 1 months from Quotation date**
- **Delivery Time: 7-8 months after receiving down payment**
- **Delivery Site: ArmeH Workshop - Parand industrial Town**
- **Payment: 50% Pre-payment – 50% After Inspection & Before Delivery of Goods**
- **Guarantee: 12 months after successful operating at the site or 18 months after equipment delivery**

Flat No. 2, No. 11, 19th of Ahmad Ghasir (Bokharest), Arjantin Sq. Tehran
 Tel: (021) 88100507 - 9
 Fax: (021) 88103257
 www.armeh.ir , info@armeh.ir



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- Note: VAT would be added to above mentioned price if you needed Official invoice.