
 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

## Production Unit No.2



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## Unit No 2



No.	Description	Tag No.	Qty	Unit Price (€)	Total Price (€)
<b>Building Area</b>					
1	<b>Addressable Smoke Detector with Base</b> <b>Model: Discovery - P/N: 58000-600</b> 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 <b>Made: APOLLO / UK</b> Accessories: ABS Back Box, ABS Cable Gland, SS Tag plate	P2-SD-02-01 ~11	11	***	***
2	<b>Addressable Audible Alarm for Safe Area</b> <b>P/N: 55000-001</b> 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 <b>Made: APOLLO / UK</b> Accessories: Cable Gland, SS Tag plate, sun-shade (for outdoor equipment's)	P2-BL-02-01 ~ 03	3	***	***
3	<b>Liner Heat Detector</b> <b>Model: ProReact Digital LHD</b> 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 <b>Made: THERMOCABLE / UK</b> Accessories: Exe IP65 Junction Box, Zener Barrier, clips, Fastener	P2-LHD-02-01 ~ 02	2 Set 50M	***	***
3.1	<b>Termination Junction Box for Liner Heat Detector</b> Safe Area / IP54 Material: Aluminum <b>Manufacturer: MD (Iran)</b>	Used For P2-LHD-02-01 ~ 02	2 Set	***	***
4	<b>Addressable I.S Combined Smoke &amp; Heat Detector</b> <b>Model: Orbis - P/N: ORB-OH-53028</b> Operating Voltage: 14-28 V DC Quiescent Current at 24V: 85 µA Alarm indication: Red LED with 360° visibility Material: Flame Retardant polycarbonate Operating Temperature: - 40°C - +70°C Humidity: 0 to 98% RH	P2-SHD-02-01	1	***	***

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	<p>Ingress Protection: IP 23D (Covered IP42 by Deckhead Mounting Box)</p> <p>Approvals: EN54, LPCB, VdS, ATEX, IECEx</p> <p>EX Class: Group II Category 1G Ex ia IIC T4</p> <p>Standard Base: ORB-MB-50018 + 45681-217</p> <p><b>Made: APOLLO / UK</b></p> <p>Accessories: ABS Backbox, ABS Cable Gland, S.S Tag Plate</p>				
4.1	<p><b>Zener Barrier (for I.S Devices)</b></p> <p><b>P/N: Z728</b></p> <p>Channels Number: 1</p> <p>Operating Voltage: 26.5 V dc</p> <p>Quiescent Current: 50 mA</p> <p>Ingress Protection: IP20</p> <p><b>Made: PEPPERL+FUCHS</b></p>	Used For P2-SHD-02-01	1	***	***
4.2	<p><b>Zone Monitor Module - Din Rail (for I.S Detectors)</b></p> <p><b>P/N: 55000-812</b></p> <p>Line voltage: 17V~28VDC</p> <p>Quiescent Current: 4mA + detector load</p> <p>No. of Conventional Devices per Loop: 20 Detector, MCP</p> <p>Material: Flame Retardant polycarbonate</p> <p>Operating temperature: -20°C to +70°C</p> <p>Approval: CPR, VdS, LPCB</p> <p><b>Made: APOLLO / UK</b></p> <p>Accessories: IP42 ABS Junction Box, ABS Cable Gland, S.S Tag Plate</p>	Used For P2-SHD-02-01	1	***	***
5	<p><b>Gas Detector with Display – H2</b></p> <p><b>Model: Xgard Bright</b></p> <p>Sensor Type: Pellistor (Catalytic)</p> <p>Gas Type / Range: Hydrogen (H2) / 0-100% LEL</p> <p>Power: 10-30Vdc. 3W max</p> <p>Electrical Output: 4-20 mA – Relay (Pre-Alarm, Alarm, Fault)</p> <p>Repeatability: +/- 2% FSD</p> <p>Response time: T90 ≤30s</p> <p>Operating temperature: -40°C to +70°C</p> <p>Humidity: 0 to 95% RH non-condensing</p> <p>Enclosure material: ADC 12 aluminum alloy</p> <p>Cable entry: 2xM20</p> <p>Ingress protection: IP65</p> <p>Standard: ATEX, IECEx; Ex II 2 G Ex db IIC T6 Gb</p> <p><b>Made: CROWCON / UK</b></p> <p>Accessories: Cable Gland, Name Plate</p>	P2-HGD-02-01	1	***	***
6	<p><b>Yellow Flashing/ Beacon (Gas) For Safe Area</b></p> <p><b>P/N: EVC50-21J-24VDC-R-Y</b></p> <p>Type: 21J Xenon Beacon</p> <p>Operating Voltage: 24Vdc</p> <p>Power consumption: 300mA</p> <p>Flash Rate: 60per-min</p> <p>Effective Intensity: 350Cd</p> <p>Body Material: Die-Cast aluminum</p> <p>Body/Lens color: Red RAL3000 / Yellow</p> <p>Protection: IP66</p> <p>Operating temp: -20°C to +60°C</p> <p>Cable Entry: ¾ (M20x1.5 by adaptor)</p> <p>Approval: ATEX; II2G Ex db IIC T6</p>	P2-RG-02-01 ~ 02	2	***	***

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	<b>Made: KROMAMEC / ITALY</b> Accessories: Lens Guard, sun-shade, Mounting Accessories, Exd Cable Gland, S.S Tag Plate				
7	<b>Red Flashing/ Beacon (Fire) For Safe Area</b> <b>P/N: EVC50-21J-24VDC-R-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 / Red Protection: IP66 Operating temp: -20°C to +60°C Cable Entry: ¾ (M20x1.5 by adaptor) Approval: ATEX; II2G Ex db IIC T6 <b>Made: KROMAMEC / ITALY</b> Accessories: Lens Guard, sun-shade, Mounting Accessories, Exd Cable Gland, S.S Tag Plate	P2-RF-02-01~02	2	***	***
8	<b>Red Flashing/ Beacon (Fire) For Safe Area</b> <b>P/N: EVC50-21J-24VDC-R-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 / Red Protection: IP66 Operating temp: -20°C to +60°C Cable Entry: ¾ (M20x1.5 by adaptor) Approval: ATEX; II2G Ex db IIC T6 <b>Made: KROMAMEC / ITALY</b> Accessories: Lens Guard, sun-shade, Mounting Accessories, Exd Cable Gland, S.S Tag Plate	P2-RF-02-03~005	3	***	***
9	<b>Manual Alarm Call Point Weather Proof-Outdoor</b> <b>Model: EFDC (1SE)</b> 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 <b>Made: COSIME / ITALY</b> Accessories: Exd Brass gland, S.S Tag plate	P2-MCP-02-01~06	6	***	***
10	<b>Addressable Audible Alarm for Safe Area</b> <b>P/N: 55000-001</b> 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	P2-HOR-02-01 ~ 02	2	***	***

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	<b>Made: APOLLO / UK</b> Accessories: Cable Gland, SS Tag plate, sun-shade (for outdoor equipment's)				
<b>Process Area</b>					
11	<b>UV/IR Flame Detector</b> <b>Model: Model: FGard UVIR – P/N: FD-UVIR-A-M25</b> 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 <b>Made: CROWCON / UK</b> Accessories: bracket, Mounting Accessories, Sunshade, Ex Cable glands, S.S tag plate	PU2-FD-01-01~28	28	***	***
12	<b>Yellow Flashing / Beacon (Gas)</b> <b>P/N: EVC50-21J-24VDC-R-Y</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 / Yellow Protection: IP66 Operating temp: -20°C to +60°C Cable Entry: ¾ (M20x1.5 by adaptor) Approval: ATEX; II2G Ex db IIC T6 <b>Made: KROMAMEC / ITALY</b> Accessories: Lens Guard, sun-shade, Mounting Accessories, Exd Cable Gland, S.S Tag Plate	PU2-RG-01-01 ~ 07	7	***	***
13	<b>Red Flashing/ Beacon (Fire)</b> <b>P/N: EVC50-21J-24VDC-R-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 / Red Protection: IP66 Operating temp: -20°C to +60°C Cable Entry: ¾ (M20x1.5 by adaptor) Approval: ATEX; II2G Ex db IIC T6 <b>Made: KROMAMEC / ITALY</b> Accessories: Lens Guard, sun-shade, Mounting Accessories, Exd Cable Gland, S.S Tag Plate	PU2-RF-01-01 ~ 07	7	***	***
14	<b>Blue Flashing / Beacon (Toxic)</b> <b>P/N: EVC50-21J-24VDC-R-B</b> Type: 21J Xenon Beacon	PU2-RT-01-01 ~07	7	***	***

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	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 <b>Made: KROMAMEC / ITALY</b> Accessories: Lens Guard, sun-shade, Mounting Accessories, Exd Cable Gland, S.S Tag Plate				
15	<b>Manual Call Point</b> <b>Model: EFDC (1SE)</b> 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 <b>Made: COSIME / ITALY</b> Accessories: Exd Brass gland, S.S Tag plate	PU2-MCP-01-01 ~11	11	***	***
16	<b>Addressable Audible Alarm for Safe Area</b> <b>P/N: 55000-001</b> 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 <b>Made: APOLLO / UK</b> Accessories: Cable Gland, SS Tag plate, sun-shade (for outdoor equipment's)	PU2-HOR-01-01 ~ 7	7	***	***
17	<b>Liner Heat Detector</b> <b>Model: ProReact Digital LHD</b> 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 <b>Made: THERMOCABLE / UK</b> Accessories: Exe IP65 Junction Box, Zener Barrier, clips, Fastener	PU2-LHD-01-03 PU2-LHD-01-02 PU2-LHD-01-01	3 Set 140 M	***	***
17.1	<b>Termination Junction Box for Liner Heat Detector</b> Safe Area / IP54 Material: Aluminum <b>Manufacturer: MD (Iran)</b>	Used For PU2-LHD-01-03 PU2-LHD-01-02 PU2-LHD-01-01	3 Set	***	***
18	<b>Combustible Gas Detectors</b> <b>Infrared Absorption (CH4)</b>	PU2-FGD-01-01 ~17	17	***	***

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<b>Model: Xgard Bright</b> Sensor Type: Infra-Red Gas Type / Range: Methane (CH <sub>4</sub> ) / 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 <b>Made: CROWCON / UK</b> Accessories: Name Plate					
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## 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**
- **Note: VAT would be added to above mentioned price if you needed Official invoice.**