

UTILITY & INDUSTRY  
PARS ARA Inc.**HORMOZGAN CEMENT Co.**  
**CENTRAL FIRE FIGHTING SYSTEM**

Ref. No.:

7.525.FF.8.04.00

Ref. Drawing No.:

4.525.FF.8.04.00

| No | Description                                   | Specification                                                                                                                                                                      | Remarks                                                                       | Rate   | Standard          | Unit | Qty |
|----|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------|-------------------|------|-----|
| 1  | Foam Dosing Hydro Pump Skid                   | Flow Rate: min. 2500 lpm<br>Working pressure: 12 bar<br>Connections: Flanged ASME B16.5<br>Accessories: Pressure gauge                                                             | Mounted on Chassis                                                            | # 150  | INSO*<br>UL/CE/EN | Set  | 2   |
| 2  | Foam Storage Tank                             | Capacity: 6000 Lit<br>Material: HDPE                                                                                                                                               | Horizontal Cubic Type                                                         | -      | INSO              | Pcs  | 1   |
| 3  | Deluge Valve Skid                             | - Size: Flanged DN150 ASME B16.5<br>- Working Pressure: Max. 12bar<br>- Operation: Elec. / Manual                                                                                  | Including: Drain, fire resistance cable & gland, junction box, pressure gauge | # 150  | INSO<br>UL/CE/EN  | Set  | 4   |
| 4  | Deluge Valve Skid                             | - Size: Flanged DN100 ASME B16.5<br>- Working Pressure: Max. 12bar<br>- Operation: Elec. / Manual<br>- Pressure gauge                                                              | Including: Drain, fire resistance cable & gland, junction box                 | # 150  | INSO<br>UL/CE/EN  | Set  | 4   |
| 6  | Dray Barrel Hydrant                           | - Inlet Connection: 6"<br>- Max. Working pressure: 12bar<br>- 2xHose Nozzle 2 1/2"<br>- Pumper Connection 4"                                                                       | Including: Drain                                                              | PN 12  | INSO<br>UL/CE/EN  | Set  | 3   |
| 7  | Fire Locker                                   | Contained:<br>- 2x1 1/2"x20m Flex. Fire hose (European made)<br>- Both side male & female connection<br>- 2x2 1/2" Water nozzle, flow rate 500 lpm<br>- Hydrant wrench             | Wall Mounted, Outdoor                                                         | -      | INSO<br>UL/CE/EN  | Set  | 3   |
| 8  | Fixed Type Foam Monitor                       | - Inlet: DN100 ASME B16.5<br>- Flow rate: 2500 lpm<br>- Horizontal rot.: 360°<br>- Vertical rot: -20° to +70°                                                                      | Foam Nozzle Mat.: Stainless Steel                                             | 12 bar | INSO<br>UL/CE/EN  | Set  | 3   |
| 9  | Foam Chamber                                  | Size: DN80xDN150                                                                                                                                                                   | Pourer included                                                               | # 150  | INSO<br>UL/CE/EN  | Set  | 8   |
| 10 | Foam Nozzle Hose Reel                         | - Carbon Steel Hose Reel<br>- 2 1/2"x20m Flex. Fire hose (European made)<br>- Both side male & female connection<br>- 2x2 1/2" Foam nozzle, flow rate 500 lpm<br>- Hydrant wrench  | Wall Mounted                                                                  | -      | INSO<br>UL/CE/EN  | Set  | 6   |
| 11 | Water Nozzle Hose Reel                        | - Carbon Steel Hose Reel<br>- 2 1/2"x20m Flex. Fire hose (European made)<br>- Both side male & female connection<br>- 2x2 1/2" Water nozzle, flow rate 500 lpm<br>- Hydrant wrench | Wall Mounted                                                                  | -      | INSO<br>UL/CE/EN  | Set  | 2   |
| 12 | Wheeled Co2 Fire Extinguisher                 | - Capacity: 30 Kg<br>- Self expelling<br>- Agent type: Carbon dioxide                                                                                                              | Outdoor type                                                                  | -      | INSO<br>UL/CE/EN  | Set  | 6   |
| 13 | Water Spray Nozzle                            | - NPT 3/4"<br>- Bronze Aluminum                                                                                                                                                    | Flat Cone Type                                                                | -      | INSO<br>UL/CE/EN  | Pcs  | 240 |
| 14 | Flexible Pipe                                 | DN150, Two Head Flanges                                                                                                                                                            | 500 mm Lng.                                                                   | # 150  | ASME Std.         | Pcs  | 4   |
| 15 | Flexible Pipe                                 | DN100, Two Head Flanges                                                                                                                                                            | 500 mm Lng.                                                                   | # 150  | ASME Std.         | Pcs  | 4   |
| 16 | Gate Valve OS&Y                               | DN150 ASME B16.5                                                                                                                                                                   | Stem mat.: Stainless Steel                                                    | # 150  | -                 | Pcs  | 1   |
| 17 | Strainer                                      | DN150, Flanged                                                                                                                                                                     | GGG40                                                                         | PN 16  | DIN Std           | Pcs  | 1   |
| 18 | Advanced Addressable Fire Alarm Control Panel | - 6 Fully independent addressable loops<br>- Monitor conventional inputs<br>- Touchscreen display<br>- Real time monitoring                                                        | - Intelligent, microprocessor-based<br>- Battery backup<br>- European Made    | -      | UL/CE/EN          | Set  | 1   |



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| No | Description                                     | Specification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Remarks                                                                                                                                                           | Rate  | Standard      | Unit | Qty   |
|----|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|---------------|------|-------|
| 19 | Flame Detector                                  | <ul style="list-style-type: none"> <li>- Multi Spectrum Detector</li> <li>- Sensor Type: 3 Channel Infrared</li> <li>- Housing.: Aluminum</li> <li>- Detection Sensitivities: Selectable</li> <li>- Detection Range: 60 m to 0.1 m<sup>2</sup> heptane fire</li> <li>- Field of View: 90° Horizontal Cone of vision, ± 45° from on axis</li> <li>- Temperature Range: Operating: -40 to +85°C</li> <li>- Humidity Range: 5 to 98% relative humidity, non-condensing</li> <li>- Operating Voltage: 24 Vdc nominal (18-32 Vdc) - regulated</li> <li>- Analog Output: 0 - 20 mA stepped source or sink user selectable</li> <li>- Dual Microprocessors</li> <li>- ATEX &amp; IECEx</li> </ul> | Spectral Sensitivity:<br>- Ultraviolet: 185-260 nanometres<br>- Visible: 400-700 nanometres<br>- Near Band IR: 0.7-1.1 microns<br>- Wide Band IR: 1.1-3.5 microns | -     | FM<br>FMC/CSA | Pcs  | 2     |
| 20 | Linear Heat Detector                            | LHD 105°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | European Made                                                                                                                                                     | -     | UL/CE/EN      | m    | 850   |
| 21 | Fire Alarm Push Bottom                          | Addressable, Outdoor Type, Waterproof                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | European Made                                                                                                                                                     | -     | UL/CE/EN      | Pcs  | 7     |
| 22 | Water Alarm Gong                                | <ul style="list-style-type: none"> <li>- Activation flow rate: 10 gpm</li> <li>- Sound Output: &gt;85 dB</li> <li>- Corrosion resistant alloy</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Mechanical, Wall mounted                                                                                                                                          | PN 16 | UL/CE/EN      | Pcs  | 3     |
| 23 | Sounder with Flasher                            | Addressable, Outdoor Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | European Made                                                                                                                                                     | -     | UL/CE/EN      | Pcs  | 9     |
| 24 | Input Module                                    | <ul style="list-style-type: none"> <li>- Intelligent addressable interface</li> <li>- Flame resistant housing</li> <li>- Operating temp.: -30°C to +50°C</li> <li>- Non-condensing Type</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | - Requires compatible fire alarm control panel<br>- European Made                                                                                                 | -     | UL/CE/EN      | Pcs  | 5     |
| 25 | Input / Output Module                           | <ul style="list-style-type: none"> <li>- Intelligent addressable interface</li> <li>- Flame resistant housing</li> <li>- Operating temp.: -30°C to +50°C</li> <li>- Non-condensing Type</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | - Requires compatible fire alarm control panel<br>- European Made                                                                                                 | -     | UL/CE/EN      | Pcs  | 18    |
| 26 | Industrial Fire Alarm Motorized Siren           | <ul style="list-style-type: none"> <li>- Power: 220 V AC</li> <li>- Range: 1000 m (open area)</li> <li>- Sound output ≥120 dB</li> <li>- Operating temp.: -30°C to +60°C</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Weatherproof Housing                                                                                                                                              | -     | UL/CE/EN      | Pcs  | 1     |
| 27 | Synthetic Fluoroprotein-Based Firefighting Foam | <ul style="list-style-type: none"> <li>- AFFF 3%</li> <li>- Expansion Ratio: 1:5 to 1:10</li> <li>- Operating temp.: -10°C to +60°C</li> <li>- Fire Calsses: Class B &amp; Class A</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Aqueous Film Forming                                                                                                                                              | -     | UL/CE/EN      | lit  | 6,000 |