




<b>CLIENT:</b>  <b>NISOC</b>	<b>Development Plan of 28 Reservoirs / BIBI HAKIMEH Oilfield (EPC)</b>								<b>CONTRACTOR:</b>   شرکت مهندسی دریایالا
	<b>Data Sheet for F&amp;G Devices for Bibi Hakimeh Desalting Unit No.2</b>								
<b>Project No.:</b> 053-073-9189	<b>Project Code</b> BH	<b>Work</b> 17	<b>Vendor Abbreviation</b> SM	<b>Facility</b> 100	<b>Discipline</b> IN	<b>Type</b> DT	<b>Sequence No.</b> 1762	<b>Rev.</b> D00	<b>Page No. : 1 of 26</b>





## Data Sheet for F&G Devices for Bibi Hakimeh Desalting Unit No.2

Rev.	Date	Purpose Of Issue	Prepared	Checked	Approved	Client Approval
D00	11.Nov.2024	Issued for Comment	A.Babalou	B.Yadegari	M.Setayesh	-

Class: A





**Status:**  
 IDC: Inter-Discipline Check  
 IFC: Issued For Comment  
 IFA: Issued For Approval  
 IFR: Issued for Review  
 AFD: Approved For Design  
 AFC: Approved For Construction  
 AFP: Approved For Purchase  
 IFI: Issued For Information  
 AB-R: As-Built for COMPANY Review  
 AB-A: As-Built –Approved

  
**ATRIN RAD MEHR**  
 سهامی خاص  
 شماره ثبت: ۴۱۴۵۵۰

<b>CLIENT:</b>  <b>NISOC</b>	<b>Development Plan of 28 Reservoirs / BIBI HAKIMEH Oilfield (EPC)</b>								<b>CONTRACTOR:</b>    شریکت عهدی دریاپالا
	<b>Data Sheet for F&amp;G Devices for Bibi Hakimeh Desalting Unit No.2</b>								
<b>Project No.:</b> 053-073-9189	<b>Project</b> BH	<b>Work Package</b> 17	<b>Vendor Abbreviation</b> SM	<b>Facility</b> 100	<b>Discipline</b> IN	<b>Type</b> DT	<b>Sequence No.</b> 1762	<b>Rev.</b> D00	<b>Page No. : 2 of 26</b>

Tabulation of Revised Pages

SHEET	REVISIONS										SHEET	REVISIONS									
	00	01	02	03	04	05	06	07	08	09		00	01	02	03	04	05	06	07	08	09
1	X										51										
2	X										52										
3	X										53										
4	X										54										
5	X										55										
6	X										56										
7	X										57										
8	X										58										
9	X										59										
10	X										60										
11	X										61										
12	X										62										
13	X										63										
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16	X										66										
17	X										67										
18	X										68										
19	X										69										
20	X										70										
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42											92										
43											93										
44											94										
45											95										
46											96										
47											97										
48											98										
49											99										
50											100										

 NISOC	Development Plan of 28 Reservoirs / BIBI HAKIMEH Oilfield (EPC)								 ماشین سازی اراک MACHINE SAZI ARAK  ENGINEERING AND WELL SERVICES  شرکت مهندسی دریایپالا
	Data Sheet for F&G Devices for Bibi Hakimeh Desalting Unit No.2								
Contract No.:  053-073-9189	Project Code	Package	Contractor	Fac.	Disc.	Doc. Type	Ser. No.	Rev.	Page 3 of 26
	BH	17	SM	100	IN	DT	1762	D00	

**General Notes**





VTa: Vendor To Advise  
VTC: Vendor To Confirm  
N/A: Not Applicable

**Special Notes**



1-All materials exposed to sour service shall be supplied with NACE MR0175/ ISO 15156 certification.

**References:**

Doc Number	Title
BH-17-SM-100-IN-SP-0053	General Specification for Instrumentation
BH-17-SM-100-IN-SP-0054	Specification for Fire & Gas Sensor and Devices
BH-17-SM-100-IN-SP-0059	Specification for Fire & Gas System
BH-17-SM-100-IN-SP-0060	Specification for Instrument/F&G Cables
BH-17-SM-100-SA-PY-1020	Fire & Gas Detector Location Layout for Bibi Hakimeh Production Unit No.2 (Building)
BH-17-SM-100-SA-PY-1022	Fire & Gas Detector Location Layout for Bibi Hakimeh Production Unit No.2 (Process Area)

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	Data Sheet for F&G Devices for Bibi Hakimeh Desalting Unit No.2								
Contract No.:  053-073-9189	Project Code	Package	Contractor	Fac.	Disc.	Doc. Type	Ser. No.	Rev.	Page 4 of 26
	BH	17	SM	100	IN	DT	1762	D00	


**DataSheet for F&G Device of Building Area**

<b>CLIENT:</b>  <b>NISOC</b>		<b>Development Plan of 28 Reservoirs</b>							<b>CONTRACTOR:</b>  شرکت مهندسی دریایالا	
<b>Project No.:</b> 053-073-9189		<b>Data Sheet for F&amp;G Devices for Bibi Hakimeh Desalting Unit No.2</b>							<b>Page No. : 5 of 26</b>	
		<b>Project Code</b>	<b>Work</b>	<b>Vendor</b>	<b>Facility</b>	<b>Discipline</b>	<b>Type</b>	<b>Sequence No.</b>	<b>Rev.</b>	
		BH	17	SM	100	IN	DT	1762	D00	

<b>(SMOKE DETECTOR POINT TYPE)</b>			
1	<b>GENERAL</b>	Tag No	D2-SD-02-02 ~4
2		Total Quantity	3
3		Service	Area Smoke Detection
4	<b>SMOKE DETECTOR</b>	Principle of Operation	Optical type
5		Response Time	≤ 1 Second
6		Body Material	Flame Retadant Polycarbonate
7		Connection - Electrical	M20 x 1.5
8		Power Consumption	≤ 2 W
9		Mounting	Celling Mounted
10		Output	Addressable
11		Output Functions	Fault ; Impaired Optics ; Overrange
12		Power Supply	24 VDC
13		Type of Protection	VTA
14		Temperature Range	0 to + 55 °C
15		Certifying Authority	BASEEFA
16		Certificate No	VTA
17		Ingress Protection	IP 65
18		Area Classification	Safe Area
19		Hazardous Area Certification	Not Applicable
20		Paint Finish	Manufacturer's Std.
21	<b>PURCHASE</b>	Manufacturer	VTA
22		Model Number	VTA
23		Purchase Order Number	TBA
24			

<b>Notes</b> 1. VTA - Vendor to Advise. TBA - To be Assigned. 2. Smoke Detector shall be fitted with stainless steel tags showing tag number. 3. Calibration equipments shall be implemented by vendor 4. Accuracy should be about 100 micron. 5. Remote Light Indicator shall be considered		 ATRIN RAD MEHR سهامی خاص شماره ثبت: ۴۱۴۵۵۰
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<b>CLIENT:</b>  <b>NISOC</b>		<b>Development Plan of 28 Reservoirs</b>							<b>CONTRACTOR:</b>   شرکت مهندسی دریابالا	
<b>Project No.:</b> 053-073-9189		<b>Data Sheet for F&amp;G Devices for Bibi Hakimeh Desalting Unit No.2</b>							<b>Page No. : 6 of 26</b>	
		<b>Project Code</b>	<b>Work</b>	<b>Vendor</b>	<b>Facility</b>	<b>Discipline</b>	<b>Type</b>	<b>Sequence No.</b>	<b>Rev.</b>	
		BH	17	SM	100	IN	DT	1762	D00	




  

Audible Alarm (Safe Area)										
1	GENERAL	Tag No			D2-BL-02-04					
2		Total C.J.Nouri			1					
3		Service			General Area Fire and Gas Alarm Bell					
4	BELL	Power supply			24 VDC					
5		Max Power requirements			VTA					
6		Electrical Connection			M20					
7		Area Classification			Safe Area					
8		Type of Protection			Not Applicable					
9		Fire Retardancy compliance			NFPA 72					
10		Sonder Pressure Level			Min 75 dB(A)					
11		Gong size	Color	6"			RED			
12		Mounting			On the wall					
13		Type			Addressable					
14		Degree of protection			IP 65					
15		Corrosion Free option			Yes					
16		Encasing Material			GRP (Glass reinforced PolYester)					
17		Finish			VTA					
18		Ingress Protection			IP65					
19		Temperature Range			0 to + 55 °C					
20		Humidity			0~100% RH					
21		Unit Mounting			SS316 2" Pipe Mounting Bracket					
22	PURCHASE	Manufacturer			VTA					
23		Model Number			VTA					
24		Purchase Order Number			TBA					
25										

<b>Notes</b> 1. VTA - Vendor to Advise. TBA - To be Assigned. 2. Unit shall be fitted with stainless steel tags showing tag number.										
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 شماره ثبت: ۴۱۴۵۵۰




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<b>Project No.:</b> 053-073-9189		<b>Data Sheet for F&amp;G Devices for Bibi Hakimeh Desalting Unit No.2</b>							<b>Page No. : 7 of 26</b>	
		<b>Project Code</b>	<b>Work</b>	<b>Vendor Abbreviation</b>	<b>Facility</b>	<b>Discipline</b>	<b>Type</b>	<b>Sequence No.</b>	<b>Rev.</b>	
		BH	17	SM	100	IN	DT	1762	D00	

<b>(LINEAR HEAT DETECTOR )</b>			
1	<b>GENERAL</b>	Tag No	D2-LHD-02-01 ~02
2		Total Quantity	2
3		Service	Transformer Area
4	<b>LINEAR HEAT DETECTOR</b>	Principle of Operation	Linear Heat Detector
5		Body Material	PVC based polymer with chemical resistant polymer outer sheath (VTC)
6		Connection - Electrical	M20 x 1.5
7		Alarm Temp	88 °C
8		Mounting	On Transformer
9		Length	25 Meter
10		Signal Type	Digital
11		Power Supply	24 VDC
12		Type of Protection	VTA
13		Temperature Range	0 to + 55 °C
14		Certifying Authority	BASEEFA
15		Certificate No	VTA
16		Area Classification	Safe Area
17		Hazardous Area Certification	Not Applicable
18		Ingress Protection	IP54
19		Paint Finish	Manufacturer's Std.
20		<b>PURCHASE</b>	Manufacturer
21	Model Number		VTA
22	Purchase Order Number		TBA
23			


<b>Notes</b> 1. VTA - Vendor to Advise. TBA - To be Assigned. VTC - Vendor to Confirm		 <b>ATRIN RAD MEHR</b> سهامی خاص شماره ثبت: ۴۱۴۵۵۰
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<b>Project No.:</b> 053-073-9189		<b>Data Sheet for F&amp;G Devices for Bibi Hakimeh Desalting Unit No.2</b>							<b>Page No. : 11 Of 26</b>	
		<b>Project Code</b>	<b>Work</b>	<b>Vendor Abbreviation</b>	<b>Facility</b>	<b>Discipline</b>	<b>Type</b>	<b>Sequence No.</b>	<b>Rev.</b>	
		BH	17	SM	100	IN	DT	1762	D00	

Red Flashing/ Beacon (Fire) For Safe Area				
1	GENERAL	Tag No	D2-RF-02-02~03	
2		Total Quantity	2	
3		Service	Open Area	
4	BEACON	Type	Xenon self-contained Flashing Beacon	
5		Tube energy	30 Joules	
6		Peak Candle power	VTA	
7		Power supply	24 VDC	
8		Max Power requirements	VTA	
9		Electrical Connection	M20 x 1.5	
10		Area Classification	Safe Area	
11		Type of Protection	Not Applicable	
12		Lens Guard	Yes	
13		Number of cable entries	1	
14		Monitored Connection Option	Yes	
15		Additional Features	Duty and tag Label	
16		Light Source Version	XENON	
17		Lens Flash Rate	60 Hz	
18		Lens Colour	RED	
19		Lens Material	Glass With guard	
20		Output	10 Joules	
21		Corrosion Free option	Yes	
22		Encasing Material	GRP (Glass reinforced PolYester)	
23		Finish	VTA	
24		Temperature Range	0 to + 55 °C	
25		Humidity	0~100% RH	
26		Ingress Protection	IP 65	
27		Unit Mounting	SS316 2" Pipe Mounting Bracket	
28		PURCHASE	Manufacturer	VTA
29			Model Number	VTA
30			Purchase Order Number	TBA


<b>Notes</b> 1. VTA - Vendor to Advise. TBA - To be Assigned. 2. Unit shall be fitted with stainless steel tags showing tag number.		 <b>ATRIN RAD MEHR</b> سهامی خاص شماره ثبت: ۴۱۴۵۵۰
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<b>Project No.:</b> 053-073-9189		<b>Data Sheet for F&amp;G Devices for Bibi Hakimeh Desalting Unit No.2</b>							<b>Page No. : 12 Of 26</b>	
		<b>Project Code</b>	<b>Work</b>	<b>Vendor Abbreviation</b>	<b>Facility</b>	<b>Discipline</b>	<b>Type</b>	<b>Sequence No.</b>	<b>Rev.</b>	
		BH	17	SM	100	IN	DT	1762	D00	

Red Flashing/ Beacon (Fire) For Safe Area			
1	GENERAL	Tag No	D2-RF-02-01
2		Total Quantity	1
3		Service	Buildin Area
4	BEACON	Type	Xenon self-contained Flashing Beacon
5		Tube energy	30 Joules
6		Peak Candle power	VTA
7		Power supply	24 VDC
8		Max Power requirements	VTA
9		Electrical Connection	M20 x 1.5
10		Area Classification	Safe Area
11		Type of Protection	Not Applicable
12		Lens Guard	Yes
13		Number of cable entries	1
14		Monitored Connection Option	Yes
15		Additional Features	Duty and tag Label
16		Light Source Version	XENON
17		Lens Flash Rate	60 Hz
18		Lens Colour	RED
19		Lens Material	Glass With guard
20		Output	10 Joules
21		Corrosion Free option	Yes
22		Encasing Material	GRP (Glass reinforced PolYester)
23		Finish	VTA
24	Temperature Range	0 to + 55 °C	
25	Humidity	0~100% RH	
26	Ingress Protection	IP 65	
27	Unit Mounting	SS316 2" Pipe Mounting Bracket	
28	PURCHASE	Manufacturer	VTA
29		Model Number	VTA
30		Purchase Order Number	TBA


<b>Notes</b> 1. VTA - Vendor to Advise. TBA - To be Assigned. 2. Unit shall be fitted with stainless steel tags showing tag number.		 <b>ATRIN RAD MEHR</b> سهامی خاص شماره ثبت: ۴۱۴۵۵۰
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<b>CLIENT:</b>  <b>NISOC</b>		<b>Development Plan of 28 Reservoirs / BIBI HAKIMEH Oilfield (EPC)</b>							<b>CONTRACTOR:</b>    شرکت مهندسی دریایالا	
<b>Project No.:</b> 053-073-9189		<b>Data Sheet for F&amp;G Devices for Bibi Hakimeh Desalting Unit No.2</b>							<b>Page No. : 13 of 26</b>	
		<b>Project Code</b>	<b>Work</b>	<b>Vendor Abbreviation</b>	<b>Facility</b>	<b>Discipline</b>	<b>Type</b>	<b>Sequence No.</b>	<b>Rev.</b>	
		BH	17	SM	100	IN	DT	1762	D00	

<b>(Manual Alarm Call Point Weather Proof-Outdoor)</b>			
1	<b>GENERAL</b>	Tag No	D2-MCP-02-01~02
2		Total Quantity	2
3		Service	Building(Outdoo) Area
4	<b>Manual Alarm Call Point</b>	Style	Break Glass
5		Body Material	GRP (Glass reinforce Polyester)
6		Addressable	Yes
7		Voltage	24 VDC
8		Connection - Electrical	2 x M20 x 1.5
9		Contact Rating	DC :0-30V 5A(Resistive) or 3A (Inductive)
10		Contact Style	1xSPDT
11		Mounting	Surface Mounting
12		EOL Resistor value	VTA
13		In line resistor value	VTA
14		Certifying Authority	ATEX
15		Certificate No	VTA
16		Area Classification	Safe Area
17		Hazardous Area Certification	Not Applicable
17		Ingress Protection	IP65
18		Paint Finish	Red
19		Temperature Range	0 to + 55 °C
20	Humidity	0~100% RH	
20	Degree of Protection	IP 65	
21	<b>PURCHASE</b>	Manufacturer	VTA
22		Model Number	VTA
23		Purchase Order Number	TBA

<b>Notes</b> 1. VTA - Vendor to Advise. TBA - To be Assigned. 2. MAC shall be fitted with stainless steel tag showing tag number. 3. EOL and In line resistors to be fitted by vendor. 4. Mounting set and Weather-proof Covered shall be supplied by vendor. 5. MCP shall be Automatic self-resetting type and Resettable push-button.		 <b>ATIRIN RAD MEHR</b> سهامی خاص شماره ثبت: ۴۱۴۵۵۰
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	<div>Data Sheet for F&amp;G Devices for Bibi Hakimeh Desalting Unit No.2</div>								
<div>Project No.:</div> <div>053-073-9189</div>	<div>Project Code</div> <div>BH</div>	<div>Work</div> <div>17</div>	<div>Vendor</div> <div>SM</div>	<div>Facility</div> <div>100</div>	<div>Discipline</div> <div>IN</div>	<div>Type</div> <div>DT</div>	<div>Sequence No.</div> <div>1762</div>	<div>Rev.</div> <div>D00</div>	<div>Page No. : 14 of 26</div>





### Audible Alarm (Safe Area)

1	<b>GENERAL</b>	Tag No	D2-HOR-02-01 ~ 02
2		Total C.J.Nouri	2
3		Service	General Area Fire and Gas Audible Alarm
4	<b>AUDIBLE ALARM</b>	Power supply	24 VDC
5		Max Power requirements	VTA
6		Electrical Connection	M20
7		Area Classification	Safe Area
8		Type of Protection	Not Applicable
9		Fire Retardancy compliance	NFPA 72
10		Rating	100 dB(A)
11		Additional Features	Duty and tag Label
12		Mounting	Surface
13		Tone Set	Multi Tone, DIL Switches
14		Ingress Protection	IP 65
15		Corrosion Free option	Yes
16		Encasing Material	GRP (Glass reinforced PolYester)
17		Finish	VTA
18		Stage Number	2 Stage
19		Temperature Range	0 to + 55 °C
20		Humidity	0~100% RH
21		Unit Mounting	SS316 2" Pipe Mounting Bracket
22	<b>PURCHASE</b>	Manufacturer	VTA
23		Model Number	VTA
24		Purchase Order Number	TBA
25			




#### Notes





1. VTA - Vendor to Advise. TBA - To be Assigned.
2. Unit shall be fitted with stainless steel tags showing tag number.
3. Sounder Tone Specification:  
 Fire Detection:
  - Continuous tone alarm 500 HZ frequency
 Combustible Gas Detection
  - Intermittent tone alarm 500 HZ frequency with one second interruption

  
**ATRIN RAD MEHR**  
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 شماره ثبت: ۴۱۴۵۵۰

CLIENT: <div> NISOC</div>	Development Plan of 28 Reservoirs / BIBI HAKIMEH Oilfield (EPC)								CONTRACTOR: <div> ماشین دازی آذرگستر ENGINEERING AND WELL SERVICES</div> <div> SeaLand ENGINEERING AND WELL SERVICES</div> <div> شرکت مهندسی دریابالا</div>
	Data Sheet for F&G Devices for Bibi Hakimeh Desalting Unit No.2								
Project No.: 053-073-9189	Project Code	Work Package	Vendor Abbreviation	Facility	Discipline	Type	Sequence No.	Rev.	Page No. : 15 of 26
	BH	17	SM	100	IN	DT	1762	D00	

**DataSheet for F&G Device of Process Area**

<b>CLIENT:</b>  <b>NISOC</b>		<b>Development Plan of 28 Reservoirs / BIBI HAKIMEH Oilfield (EPC)</b>							<b>CONTRACTOR:</b>  <b>شیرکت مهندسی دریایالا</b>	
		<b>Data Sheet for F&amp;G Devices for Bibi Hakimeh Desalting Unit No.2</b>								
<b>Project No.:</b> 053-073-9189		<b>Project Code</b> BH	<b>Work</b> 17	<b>Vendor Abbreviation</b> SM	<b>Facility</b> 100	<b>Discipline</b> IN	<b>Type</b> DT	<b>Sequence No.</b> 1762	<b>Rev.</b> D00	<b>Page No. : 16 of 26</b>
<b>(UV/IR TYPE FLAME DETECTOR)</b>										
1	<b>GENERAL</b>	Tag No	DU2-FD-01-01~35							
2		Total Quantity	35							
3		Service	Area Flame Detection							
4	<b>FLAME DETECTOR</b>	Principle of Operation	UV/IR							
5		Response Time	5 Sec							
6		Range	0.1 m <sup>2</sup> fire at 15 meter							
7		Body Material	Cast Aluminum							
8		Optics	VTA							
9		Connection - Electrical	3 WIRE , M20 x 1.5							
10		Power Consumption	VTA							
11		Mounting	SS316, 2 " Pipe Mounting Bracket with Swivel Adaptor							
12		Output	-							
13			4 - 20mA							
14		Output Functions	VTA							
15		Power Supply	24 VDC							
16		Ingress Protection	IP 65							
17		Cone of Vision (Field of view)	120 ° Horizontal, 90 ° Vertical							
18		Humidity	0~100% RH							
19		Temperature Range	-2 to +58°C							
20		Certifying Authority	ATEX							
21		Certificate No	VTA							
22		Area Classification	ZONE 2, GAS GROUP IIB, T3							
23		Hazardous Area Certification	Ex 'd'							
24	Paint Finish	Manufacturer's Std.								
25	Cleaning System	VTA								
26	Sun Shade	YES								
27	<b>PURCHASE</b>	Manufacturer	VTA							
28		Model Number	VTA							
29		Purchase Order Number	TBA							
31										
<b>Notes</b> 1. VTA - Vendor to Advise. TBA - To be Assigned. 2. Flame Detector shall be fitted with stainless steel tags showing tag number. 3. Calibration equipments shall be implemented by vendor										
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	<b>Data Sheet for F&amp;G Devices for Bibi Hakimeh Desalting Unit No.2</b>								
<b>Project No.:</b> 053-073-9189	<b>Project Code</b> BH	<b>Work</b> 17	<b>Vendor Abbreviation</b> SM	<b>Facility</b> 100	<b>Discipline</b> IN	<b>Type</b> DT	<b>Sequence No.</b> 1762	<b>Rev.</b> D00	<b>Page No. : 22 of 26</b>





**(LINEAR HEAT DETECTOR )**



1	GENERAL	Tag No	DU2-LHD-01-02
2		Total Quantity	2
3		Service	Transformer Area
4	LINEAR HEAT DETECTOR	Principle of Operation	Linear Heat Detector
5		Body Material	PVC based polymer with chemical resistant polymer outer sheath (VTC)
6		Connection - Electrical	M20 x 1.5
7		Alarm Temp	88 °C
8		Mounting	On Transformer Area
9		Length	5 Meter
10		Signal Type	Digital
11		Power Supply	24 VDC
12		Type of Protection	VTA
13		Temperature Range	0 to + 55 °C
14		Certifying Authority	BASEEFA
15		Certificate No	VTA
16		Area Classification	ZONE 2,GAS GROUP IIB, T3
17		Hazardous Area Certification	Not Applicable
18		Ingress Protection	IP 65
19		Paint Finish	Manufacturer's Std.
20	PURCHASE	Manufacturer	VTA
21		Model Number	VTA
22		Purchase Order Number	TBA
23			

**Notes**

1. VTA - Vendor to Advise. TBA - To be Assigned. VTC - Vendor to Confirm

  
**ATRIN RAD MEHR**  
 سهامی خاص  
 شماره ثبت: ۴۱۴۵۵۰

<b>CLIENT:</b>  <b>NISOC</b>		<b>Development Plan of 28 Reservoirs / BIBI HAKIMEH Oilfield (EPC)</b>							<b>CONTRACTOR:</b>   <b>شركت مهندسي دريا پالا</b>	
		<b>Data Sheet for F&amp;G Devices for Bibi Hakimeh Desalting Unit No.2</b>								
<b>Project No.:</b> 053-073-9189		<b>Project Code</b> BH	<b>Work</b> 17	<b>Vendor Abbreviation</b> SM	<b>Facility</b> 100	<b>Discipline</b> IN	<b>Type</b> DT	<b>Sequence No.</b> 1762	<b>Rev.</b> D00	<b>Page No. : 23 of 26</b>
<b>(LINEAR HEAT DETECTOR )</b>										
1	<b>GENERAL</b>	Tag No			DU2-LHD-01-03					
2		Total Quantity			1					
3		Service			Dirty Oil Surge Tank					
4	<b>LINEAR HEAT DETECTOR</b>	Principle of Operation			Linear Heat Detector					
5		Body Material			PVC based polymer with chemical resistant polymer outer sheath (VTC)					
6		Connection - Electrical			M20 x 1.5					
7		Alarm Temp			88 °C					
8		Mounting			On Tanks					
9		Length			10 Meter					
10		Signal Type			Digital					
11		Power Supply			24 VDC					
12		Type of Protection			VTA					
13		Temperature Range			0 to + 55 °C					
14		Certifying Authority			BASEEFA					
15		Certificate No			VTA					
16		Area Classification			ZONE 2,GAS GROUP IIB, T3					
17		Hazardous Area Certification			Not Applicable					
18		Ingress Protection			IP 65					
19		Paint Finish			Manufacturer's Std.					
20	<b>PURCHASE</b>	Manufacturer			VTA					
21		Model Number			VTA					
22		Purchase Order Number			TBA					
23										
<b>Notes</b> 1. VTA - Vendor to Advise. TBA - To be Assigned. VTC - Vendor to Confirm										
 <b>ATRIN RAD MEHR</b> سهمای خاص شماره ثبت: ۴۱۴۵۵۰										




<b>CLIENT:</b>  <b>NISOC</b>		<b>Development Plan of 28 Reservoirs / BIBI HAKIMEH Oilfield (EPC)</b>							<b>CONTRACTOR:</b>  شرکت مهندسی دریایالا	
<b>Project No.:</b> 053-073-9189		<b>Data Sheet for F&amp;G Devices for Bibi Hakimeh Desalting Unit No.2</b>							<b>Page No. : 26 of 26</b>	
		<b>Project Code</b>	<b>Work</b>	<b>Vendor Abbreviation</b>	<b>Facility</b>	<b>Discipline</b>	<b>Type</b>	<b>Sequence No.</b>	<b>Rev.</b>	
		BH	17	SM	100	IN	DT	1762	D00	

<b>( Combustible Gas Detectors)</b>			
1	<b>GENERAL</b>	Tag No	DU2-FGD-01-01 ~ 24
2		Total Quantity	24
3		Service	IR principle
4		Composition	CH4
5		Principle of Operation	Infrared Absorption
6	<b>GAS DETECTOR</b>	Type	IR principle
7		Response Time	T 90 < 20 seconds
8		Path Length	Not Applicable
9		Body Material	Cast Aluminum
10		Range / Accuravy	0 - 100% LEL / 1% LEL
11		Optics	VTA
12		Connection - Electrical	3 Wire , M20 x 1.5
13		Power Consumption	VTA
14		Mounting	SS316 2" Pipe Mounting Bracket
15		Output	4 - 20mA = 0 - 100% LEL
16		Output Functions	VTA
17		Power Supply	10 to 32 Vdc
18		Ingress Protection	IP 65
19		Temperature Range	-2 to +58°C
20		Humidity	0~100% RH
21		Certifying Authority	ATEX
22		Certificate No	VTA
23		Area Classification	ZONE 2, GAS GROUP IIB, T3
24		Hazardous Area Certification	EEx 'd'
25		Sun Shade	Yes
26	Paint Finish	Manufacturer's Std.	
27	<b>PURCHASE</b>	Manufacturer	VTA
28		Model Number	VTA
29		Purchase Order Number	TBA
30			


<b>Notes</b> 1. VTA - Vendor to Advise. TBA - To be Assign. 2. Gas Detector shall be fitted with stainless steel tags showing tag number. 3. LED for Alarm, Pre Alarm and Fault shall be considered		 <b>ATRIN RAD MEHR</b> سهامی خاص شماره ثبت: ۴۱۴۵۵۰
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<b>CLIENT:</b>  <b>NISOC</b>		<b>Development Plan of 28 Reservoirs / BIBI HAKIMEH Oilfield (EPC)</b>							<b>CONTRACTOR:</b>   شرکت مهندسی دریاپالا	
<b>Project No.:</b> 053-073-9189		<b>Data Sheet for F&amp;G Devices for Bibi Hakimeh Desalting Unit No.2</b>							<b>Page No. : 25 of 26</b>	
		<b>Project Code</b>	<b>Work</b>	<b>Vendor Abbreviation</b>	<b>Facility</b>	<b>Discipline</b>	<b>Type</b>	<b>Sequence No.</b>	<b>Rev.</b>	
		BH	17	SM	100	IN	DT	1762	D00	

<b>(TOXIC POINT GAS DETECTORS)</b>			
1	<b>GENERAL</b>	Tag No	DU2-TGD-01-01 ~ 24
2		Total Quantity	24
3		Service	H <sub>2</sub> S Detection
4		Expected Sensor Life	VTA
5	<b>GAS DETECTOR</b>	Principle of Operation	Catalytic Gas Detector
6		Type	VTA
7		Response Time	T 90 < 20 seconds
8		Body Material	Cast Aluminum
9		Range	0 to 50 ppm H2S
10		Accuracy	1 ppm or better
11		Connection - Electrical	3 WIRE , M20 x1.5
12		Power Consumption	VTA
13		Local Indication	YES
14		Mounting	SS316 2" Pipe Mounting Bracket
15		Output	4- 20 mA
16		Output Functions	VTA
17		Power Supply	24 V DC
18		Ingress Protection	IP65
19		Temperature Range	-2 to +58°C
20		Humidity	0~100% RH
21		Certifying Authority	ATEX
22		Certificate No	VTA
23		Area Classification	ZONE 2, GAS GROUP IIB, T3
24		Hazardous Area Certification	Exd,IIC ,T6
25	Paint Finish	Manufacturer's Std.	
26	Repeatability	±2% of full scale	
27	Fault Signals	Less than 1 mA output indicates Fault Condition(VTC)	
28	Sun Shade	Yes	
29	<b>PURCHASE</b>	Manufacturer	VTA
30		Model Number	VTA
31		Purchase Order Number	TBA
32			

<b>Notes</b> 1. VTA - Vendor to Advise. TBA - To be Assigned. VTC - Vendor To Confirm 2. Gas Detector shall be fitted with stainless steel tags showing tag number. 3. Calibration equipments shall be implemented by vendor 4. LED for Alarm, Pre Alarm and Fault shall be considered		 <b>ATRIN RAD MEHR</b> سهامی خاص شماره ثبت: ۴۱۴۵۵۰
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<b>CLIENT:</b>  <b>NISOC</b>		<b>Development Plan of 28 Reservoirs / BIBI HAKIMEH Oilfield (EPC)</b>							<b>CONTRACTOR:</b>   شریکت مہندسی دریازالا	
<b>Project No.:</b> 053-073-9189		<b>Data Sheet for F&amp;G Devices for Bibi Hakimeh Desalting Unit No.2</b>							<b>Page No. : 17 of 26</b>	
		Project Code	Work Package	Vendor Abbreviation	Facility	Discipline	Type	Sequence No.	Rev.	
		BH	17	SM	100	IN	DT	1762	D00	


  





Yellow Flashing / Beacon (Gas)				
1	GENERAL	Tag No	DU2-RG-01-07 ~ 07	
2		Total Quantity	7	
3		Service	General Area Fire and Gas Visual Alarm	
4	BEACON	Type	Xenon self-contained Flashing Beacon	
5		Tube energy	30 Joules	
6		Peak Candlepower	VTA	
7		Power supply	24 VDC	
8		Max Power requirements	VTA	
9		Electrical Connection	M20 x 1.5	
10		Area Classification	Zone 2,IIA, T3	
11		Type of Protection	EEx 'd'	
12		Lens Guard	Yes	
13		Number of cable entries	1	
14		Monitored Connection Option	Yes	
15		Additional Features	Duty and tag Label	
16		Light Source Version	XENON	
17		Lens Flash Rate	60 Hz	
18		Lens Colour	Yellow	
19		Lens Material	Glass	
20		Output	30 Joules	
21		Corrosion Free option	Yes	
22		Encasing Material	Cast Aluminum	
23		Finish	VTA	
24		Temperature Range	-2 to +85°C	
20		Humidity	0~100% RH	
25		Ingress Protection	IP 65	
26		Area Classification	ZONE 2,GAS GROUP IIB, T3	
27		Unit Mounting	SS316 2" Pipe Mounting Bracket	
28		PURCHASE	Manufacturer	VTA
29			Model Number	VTA
30	Purchase Order Number		TBA	

**Notes**

- VTA - Vendor to Advise. TBA - To be Assigned.
- Unit shall be fitted with stainless steel tags showing tag number.
- Visual alarms shall be of the Xenon self-contained flashing beacon type, with 360 degrees of vision. The lens shall be manufactured from impact resistant polycarbonate or toughened glass

  
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 شماره ثبت: ۴۱۴۵۵۰


<b>CLIENT:</b>  <b>NISOC</b>		<b>Development Plan of 28 Reservoirs / BIBI HAKIMEH Oilfield (EPC)</b>							<b>CONTRACTOR:</b>    شرکت عهدی دریاپالا	
<b>Project No.:</b> 053-073-9189		<b>Data Sheet for F&amp;G Devices for Bibi Hakimeh Desalting Unit No.2</b>							<b>Page No. : 18 of 26</b>	
		Project Code	Work Package	Vendor Abbreviation	Facility	Discipline	Type	Sequence No.	Rev.	
		BH	17	SM	100	IN	D'T	1762	D00	





  

Red Flashing / Beacon (Fire)				
1	GENERAL	Tag No	DU2-RF-01-01 ~ 07	
2		Total Quantity	7	
3		Service	General Area Fire and Gas Visual Alarm	
4	BEACON	Type	Xenon self-contained Flashing Beacon	
5		Tube energy	30 Joules	
6		Peak Candle power	VTA	
7		Power supply	24 VDC	
8		Max Power requirements	VTA	
9		Electrical Connection	M20 x 1.5	
10		Area Classification	Zone 2,IIB, T3	
11		Type of Protection	EEx 'd'	
12		Lens Guard	Yes	
13		Number of cable entries	1	
14		Monitored Connection Option	Yes	
15		Additional Features	Duty and tag Label	
16		Light Source Version	XENON	
17		Lens Flash Rate	60 Hz	
18		Lens Colour	RED	
19		Lens Material	Glass with guard	
20		Output	30 Joules	
21		Corrosion Free option	Yes	
22		Encasing Material	Cast Aluminum	
23		Finish	VTA	
24		Temperature Range	-2 to +85°C	
20		Humidity	0~100% RH	
25		Ingress Protection	IP 65	
26		Area Classification	ZONE 2,GAS GROUP IIB, T3	
27		Unit Mounting	SS316 2" Pipe Mounting Bracket	
28		PURCHASE	Manufacturer	VTA
29			Model Number	VTA
30	Purchase Order Number		TBA	

**Notes**  
 1. VTA - Vendor to Advise. TBA - To be Assigned.  
 2. Unit shall be fitted with stainless steel tags showing tag number.  
 3. Visual alarms shall be of the Xenon self-contained flashing beacon type, with 360 degrees of vision. The lens shall be manufactured from impact resistant polycarbonate or toughened glass

  
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 شماره ثبت: ۴۱۴۵۵۰


<b>CLIENT:</b>  <b>NISOC</b>		<b>Development Plan of 28 Reservoirs / BIBI HAKIMEH Oilfield (EPC)</b>							<b>CONTRACTOR:</b>    شيرکت مهندسي درياپالا	
		<b>Data Sheet for F&amp;G Devices for Bibi Hakimeh Desalting Unit No.2</b>								
<b>Project No.:</b> 053-073-9189		<b>Project Code</b> BH	<b>Work Package</b> 17	<b>Vendor Abbreviation</b> SM	<b>Facility</b> 100	<b>Discipline</b> IN	<b>Type</b> DT	<b>Sequence No.</b> 1762	<b>Rev.</b> D00	<b>Page No. : 19 of 26</b>






  





Blue Flashing / Beacon (Toxic)				
1	GENERAL	Tag No	DU2-RT-01-01 ~07	
2		Total Quantity	7	
3		Service	General Area Fire and Gas Visual Alarm	
4	BEACON	Type	Xenon self-contained Flashing Beacon	
5		Tube energy	30 Joules	
6		Peak Candlepower	VTA	
7		Power supply	24 VDC	
8		Max Power requirements	VTA	
9		Electrical Connection	M20 x 1.5	
10		Area Classification	Zone 2,IIB, T3	
11		Type of Protection	EEEx 'd'	
12		Lens Guard	Yes	
13		Number of cable entries	1	
14		Monitored Connection Option	Yes	
15		Additional Features	Duty and tag Label	
16		Light Source Version	XENON	
17		Lens Flash Rate	60 Hz	
18		Lens Colour	BLUE	
19		Lens Material	Glass with guard	
20		Output	30 Joules	
21		Corrosion Free option	Yes	
22		Encasing Material	Cast Aluminum	
23		Finish	VTA	
24		Temperature Range	-2 to +85°C	
20		Humidity	0~100% RH	
25		Ingress Protection	IP 65	
26		Area Classification	ZONE 2,GAS GROUP IIB, T3	
27		Unit Mounting	SS316 2" Pipe Mounting Bracket	
28		PURCHASE	Manufacturer	VTA
29			Model Number	VTA
30	Purchase Order Number		TBA	

**Notes**  
 1. VTA - Vendor to Advise. TBA - To be Assigned.  
 2. Unit shall be fitted with stainless steel tags showing tag number.  
 3. Visual alarms shall be of the Xenon self-contained flashing beacon type, with 360 degrees of vision. The lens shall be manufactured from impact resistant polycarbonate or toughened glass

  
 ATRIN RAD MEHR  
 سهامی خاص  
 شماره ثبت: ۳۱۴۵۵۰

<b>CLIENT:</b>  <b>NISOC</b>		<b>Development Plan of 28 Reservoirs / BIBI HAKIMEH Oilfield (EPC)</b>							<b>CONTRACTOR:</b>    شرکت مهندسی دریایالا	
		<b>Data Sheet for F&amp;G Devices for Bibi Hakimeh Desalting Unit No.2</b>								
<b>Project No.:</b> 053-073-9189	<b>Project Code</b> BH	<b>Work Package</b> 17	<b>Vendor Abbreviation</b> SM	<b>Facility</b> 100	<b>Discipline</b> IN	<b>Type</b> DT	<b>Sequence No.</b> 1762	<b>Rev.</b> D00	<b>Page No. : 20 of 26</b>	
<b>(Manual Alarm Call Point)</b>										
1	GENERAL	Tag No	DU2-MCP-01-01 ~14							
2		Total Quantity	14							
3		Service	Manual Alarm Call Point-Resetable							
4	Manual Alarm Call Point	Style	Break Glass							
5		Body Material	Cast Aluminum							
6		Addressable	No							
7		Voltage	24 VDC							
8		Connection - Electrical	2 x M20 x 1.5							
9		Contact Rating	DC :0-30V 5A(Resistive) or 3A (Inductive)							
10		Contact Style	1xSPDT							
11		Mounting	Surface Mounting							
12		EOL Resistor value	VTA							
13		In line resistor value	VTA							
14		Certifying Authority	ATEX							
15		Certificate No	VTA							
16		Area Classification	ZONE 2,GAS GROUP IIB, T3							
17		Hazardous Area Certification	EEx 'd'							
18		Paint Finish	Red							
19		Temperature Range	-2 to +85°C							
20		Ingress Protection	IP 65							
21	PURCHASE	Manufacturer	VTA							
22		Model Number	VTA							
23		Purchase Order Number	TBA							
<b>Notes</b> 1. VTA - Vendor to Advise. TBA - To be Assigned. 2. MAC shall be fitted with stainless steel tag showing tag number. 3. EOL and In line resistors to be fitted by vendor.										
 <b>ATRIN RAD MEHR</b> سهامی خاص شماره ثبت: ۴۱۴۵۵۰										

<b>CLIENT:</b>  <b>NISOC</b>		<b>Development Plan of 28 Reservoirs / BIBI HAKIMEH Oilfield (EPC)</b>							<b>CONTRACTOR:</b>    شرکت عهدی دریایالا	
<b>Project No.:</b> 053-073-9189		<b>Data Sheet for F&amp;G Devices for Bibi Hakimeh Desalting Unit No.2</b>							<b>Page No. : 21 of 26</b>	
		<b>Project Code</b>	<b>Work</b>	<b>Vendor Abbreviation</b>	<b>Facility</b>	<b>Discipline</b>	<b>Type</b>	<b>Sequence No.</b>	<b>Rev.</b>	
		BH	17	SM	100	IN	DT	1762	D00	

Audible Alarm (2 Tone)			
1	GENERAL	Tag No	DU2-HOR-01-01 ~ 7
2		Total C.J.Nouri	7
3		Service	General Area Fire and Gas Audible Alarm
4	AUDIBLE ALARM	Power supply	24 VDC
5		Max Power requirements	VTA
6		Electrical Connection	M20
7		Area Classification	ZONE 2,IIA, T3
8		Type of Protection	EEx 'd'
9		Fire Retardancy compliance	NFPA 72
10		Rating	110dB(A)
11		Additional Features	Duty and tag Label
12		Mounting	Surface
13		Tone Set	Multi Tone, DIL Switches
14		Ingress Protection	IP 65
15		Corrosion Free option	Yes
16		Encasing Material	Cast Aluminum
17		Finish	VTA
18		Stage Number	2 Stage
19		Temperature Range	-2 to +58°C
20		Humidity	0~100% RH
21		Area Classification	ZONE 2,GAS GROUP IIB, T3
22		Unit Mounting	SS316 2" Pipe Mounting Bracket
23	PURCHASE	Manufacturer	VTA
24		Model Number	VTA
25		Purchase Order Number	TBA
26			

Notes

- VTA - Vendor to Advise. TBA - To be Assigned.
- Unit shall be fitted with stainless steel tags showing tag number.
- Sounder Tone Specification:

Fire Detection:

- Continuous tone alarm 500 HZ frequency

Combustible Gas Detection


- Intermittent tone alarm 500 HZ frequency with one second interruption

20% LEL Flammable Gas Detection: Intermittent tone alarm 1000 HZ frequency with one second interruption

- 50% LEL Flammable Gas Detection: Continuous tone alarm 500 HZ frequency

Toxic Gas Detection:

- Blue Flashing Light
- 10 ppm H2S: Intermittent tone alarm 500 HZ frequency with one second interruption
- 20 ppm H2S: Continuous tone alarm 500 HZ frequency

  
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 شماره ثبت: ۴۱۴۵۵۰