













Owner: 	Client: 	GENERAL AUTHORITY OF HORMOZGAN PERSIAN GULF PORT PAYA OIL PRODUCTION TERMINAL		Consultant: 	Supervisor: 
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MATERIAL TAKE OFF FOR LIGHTING SYSTEM

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rev. No.	Date	Description	Prepared By	Checked By	Approved By





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1- INTRODUCTION

"PAYA OIL OAYESH Commercial Co. intends to construct an Oil Product Terminal facility in Persian Gulf Port in Shahid Rajaei economic zone in Bandar-Abbass.

In this project Behin Tarh Paydar Consultant Co. will be responsible for basic and detail design phases. The purpose of the plant is to prepare required facilities in order to storage heavy and light product in tank and truck loading and unloading truck road and transfer product to jetty and ship.

2- DEFINITIONS

Client: PAYAL OIL PAYESH Commercial Co.





Consultant: Behin Tarh Paydar Co. Consultant

Project: PAYA Oil product terminal in the Persian Gulf port.

Supervision: Tadbir Sahel Pars





3- PURPOSE

The purpose of this document is to provide an accurate material take-off for the lighting system luminance of PAYA OIL Commercial Co.'s Oil Products Terminal facility, located in the Persian Gulf Port at Shahid Rajaei Economic Zone, Bandar-Abbas.





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4- MATERAIL TAKE OFF





ROW	EQUIPMENT	DESCRIPTION	UNIT	QTY	SPARE	FINAL QTY	REMARK
AREA LIGHTING EQUIPMENT							
A-1	LIGHTING TOWER (Motorize Pole)	20 meters Head Suitable for 8 No's Flood Light ,Polygonal shape, Bottom Φ: 600-Top Φ: 300mm, With JB plate and junction box for top of tower aluminum body IP 65, With stainless steel lightning arrester, H.D.G according to ASTM - A123,Electro motor with emergency stop and Gear box , Lighting control panel IP55 th of plate 2mm, Including 8 no. of 1x180 Watt LED Flood lights, 230V,50 Hz, Bracket/ pole mounted, Outdoor industrial type,Housing made of Die-Cast Aluminum, Reflector made of Anodized Aluminum, High power factor corrective capacitor, Mounting accessorieswiring and earth system,IP 65"	No.	1	0%	1	
A-2	INDUSTRIAL FLOOD LIGHT LED TYPE	Industrial flood light LED type, 176-watt, 25000 lm, 6500 K, IP 66, Gray body, aluminuim body, cable gland included, looping is needed.	No.	8	0%	8	For lighting tower
A-3	STREET LIGHTING POLE	Street lighting pole 3m with industrial junction box, 2 Arms 0.5m suitable for 2 street lighting fixture, H.D.G according to ASTM-A123, junction box IP 65 with MCB cb shall be included on lighting pole- Suitable for installation on dike wall.	No.	13	0%	13	revised
A-4	STEET LIGHTING	120-watt LED Street (Asteria M or similar luminaire) light, 230V AC. 50 Hz, Pole mounted, Housing made of Die-Cast	No.	26	5%	27	

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ROW	EQUIPMENT	DESCRIPTION	UNIT	QTY	SPARE	FINAL QTY	REMARK
		Aluminum, Reflector made of Anodized Aluminum, Tempered Glass, Magnetic ballast with PF corrective capacitor, High power factor corrective capacitor, IP 55, cable gland is included.					
A-5	LIGHTING POLE FOR FLUORESCENT FIXTURE (LED TYPE)	HDG lighting poles for installation on storage tanks and stairways shall be 2.5 m in height, with the arm installed at an angle of 30 degrees from the horizontal axis.	No.	21	0%	21	revised
A-6	EX-JB OF LIGHTING POLE FOR FLUORESCENT FIXTURE	Explosion-proof junction box, type Ex-d, suitable for gas group IIC, temperature class T4, with one incoming 5×4 mm ² armoured cable and two outgoing cables: one 5×4 mm ² and one 3×2.5 mm ² armoured cable. Cable glands are included.	No	12	0%	12	
A-7	EX-JB OF LIGHTING POLE FOR FLUORESCENT FIXTURE	Explosion-proof junction box, type Ex-d, suitable for gas group IIC, temperature class T4, with one incoming 5×4 mm ² armoured cable and three outgoing cables: one 5×4 mm ² and two 3×2.5 mm ² armoured cable. Cable glands are included.	No	9	0%	9	revised
A-8	2X36 WATTS FLUORESCENT LIGHT (OR LED TYPE)	2x36 watt fluorescent light (or LED type), dust and moisture proof luminaire, Ex-d, suitable for gas group IIC, Stainless steel body or copper free aluminum.	No	24	5%	26	revised
A-9	EXPLOSION PFOOF LIGHTING FLOOD LIGHT	Explosion proof flood lighting, metal halid lamp, 250-watt, metal halide lamp,25000 lm, Ex-d, suitable for gas group IIC, copper free aluminum body, cable gland included.	No	6	5%	7	

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ROW	EQUIPMENT	DESCRIPTION	UNIT	QTY	SPARE	FINAL QTY	REMARK
A-10	EXPLOSION PROOF HIGH BAY LIGHTING	Explosion proof high bay lighting, 150-watt, metal halide lamp, 10250 lm, Ex-d, suitable for gas group IIC, copper free aluminum body, cable gland included.	No	19	5%	20	
A-11	EX-JB OF LIGHTING FOR HIGH BAY	Explosion proof junction box, type Ex-d, suitable for gas group IIC, temperature class T4, with one incoming 5×4 mm ² armoured cable and three outgoing cables: one 5×4 mm ² and two 3×2.5 mm ² armoured. Cable glands are included.	No.	5	0%	5	
A-12	EX-JB OF LIGHTING FOR HIGH BAY	Explosion proof junction box, type Ex-d, suitable for gas group IIC, temperature class T4, with one incoming 5×2.5 mm ² armoured cable and three outgoing cables: one 5×2.5 mm ² and two 3×2.5 mm ² armoured. Cable glands are included.	No.	3	0%	3	
A-13	INDUSTRIAL FLOOD LIGHT LED TYPE	Industrial flood light LED type, 176-watt, 25000 lm, 6500 K, IP 66, Gray body, aluminum body, cable gland included, looping is needed.	No.	16	5%	17	
BOILER ROOM							
B-1	INDUSTRIAL HIGH BAY	Industrial High Bay, LED type, 170-watt, 28000 lm, dust & moisture proof, hercule type, cable gland included, IP66, similar to HERCULED HT 28000	No.	4	5%	5	
B-2	INDUSTRIAL JUNCTION BOX	Industrial junction box, aluminum body, one incoming 3×2.5 mm ² armoured cable and three outgoing cables: three 3×2.5 mm ² armoured. Cable glands are included.	No.	2	0%	2	

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ROW	EQUIPMENT	DESCRIPTION	UNIT	QTY	SPARE	FINAL QTY	REMARK
B-3	INDUSTRIAL LINEAR LED	Industrail linear LED, IP54, dust & moisture proof, linear LED, 54-watt, 7000 lm, surface mounted, looping needed, cable gland is included, MAZINOOR - LEDiSEAL	No.	4	5%	5	
FIRE FIGHTING PUMP HOUSE ROOM							
C-1	INDUSTRIAL HIGH BAY	Industrial High Bay, LED type, 170-watt, 28000 lm, dust & moisture proof, cable gland included, IP66, similar to HERCULED HT 28000	No.	4	5%	5	
GATE HOUSE BUILDING							
D-1	SQUARE SHAPE LED TYPE PANEL	Indoor LED, Square shape, surface mounted, 29 watt, 4500lm, uniform light	No.	4	0%	4	
SUBSTATION BUILDING							
E-1	INDUSTRIAL LINEAR LED	Industrail linear LED, IP54, dust & moisture proof, linear LED, 54-watt, 7000 lm, pendant mounted-accessories for pendant installation is included, looping needed, cable gland is included, similar to MAZINOOR - LEDiSEAL	No.	17	5%	18	
E-2	INDUSTRIAL LINEAR LED	Industrail linear LED, IP54, dust & moisture proof, linear LED, 54 watts, 7000 lm, surface mounted, looping needed, cable gland is included, similar to MAZINOOR - LEDiSEAL	No.	19	5%	20	
E-3	INDUSTRIAL LINEAR LED	Industrail linear LED, IP38, dust & moisture proof, linear LED, 54 watts, 5500 lm, surface mounted, stainless-steel body, looping needed, cable gland is included, similar to MAZINOOR - SEALMET	No.	7	5%	8	
E-4	EXIT LIGHT	Exit light, battery included, cable gland is included.	No.	2	0%	2	

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ROW	EQUIPMENT	DESCRIPTION	UNIT	QTY	SPARE	FINAL QTY	REMARK
E-5	OVAL SHAPE LIGHT	Oval shape light, 100 watt, bulk head with guard, looping needed, cable gland is included, IP 66, similar to MAZINOOR-ROCKY	No.	12	5%	13	
E-6	INDUSTRIAL JUNCTION BOX	Industrial junction box, aluminum body, one incoming 4×2.5 mmN ² non-armoured cable and three outgoing cables: three 4×2.5 mm ² non-armoured. Cable glands are included	No.	2	0%	2	
OFFICE BUILDING							
F-1	SQUARE SHAPE LED TYPE PANEL	Indoor LED, Square shape, recessed mounted, 29-watt, 4500lm, uniform light	No.	55	5%	58	
F-2	SQUARE SHAPE LED TYPE PANEL	Indoor LED, Square shape, recessed mounted, 54-watt, 7000lm, uniform light	No.	39	5%	41	
F-3	INDUSTRIAL LINEAR LED	Industrail linear LED, IP54, dust & moisture proof, linear LED, 54-watt, 7000 lm, surface mounted, looping needed, cable gland is included, similar to MAZINOOR - LEDiSEAL	No.	4	5%	5	
F-4	OVAL SHAPE LIGHT	Oval shape light, 100-watt, bulk head with guard, looping needed, cable gland is included, IP 66, similar to MAZINOOR-ROCKY	No.	1	0%	1	
F-5	DOWN LIGHT	Down light, 23-watt, 2000 lm,	No.	25	5%	27	