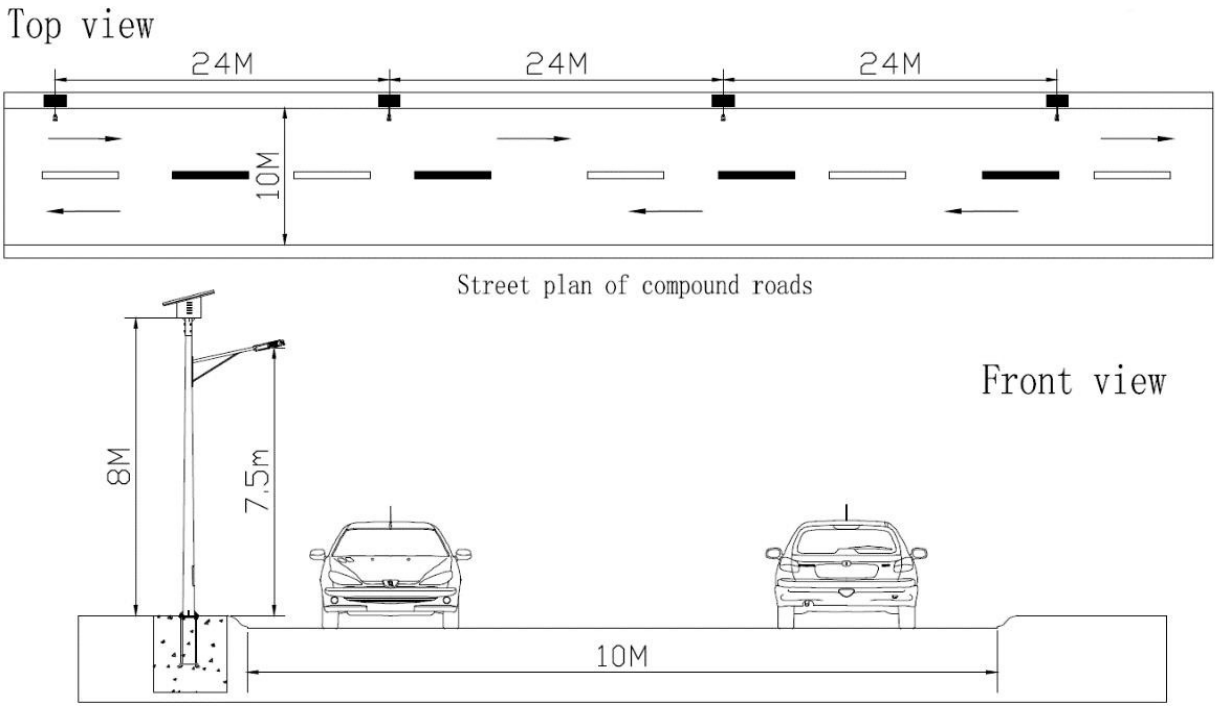
SSL Case Study in Kuwait

Project Description

The project scope is the construction of the outdoor lighting facilities for two roads of Salem Air Force Base in Kuwait based on the following dimensions:

- Road1 is 10 metres width divided into two lanes with a distance 10 Km.

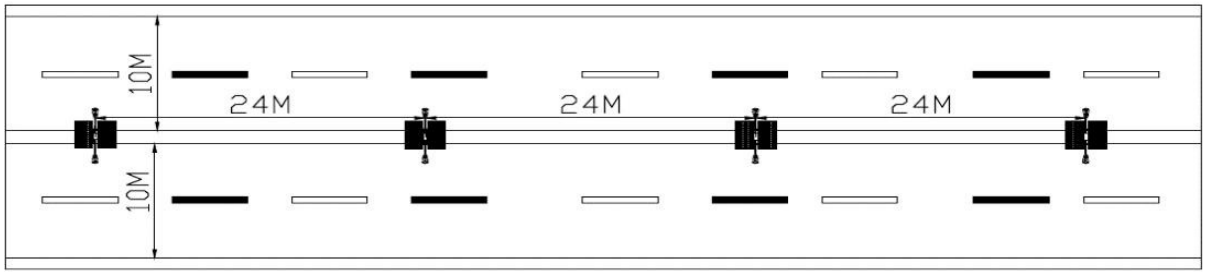


Project Description

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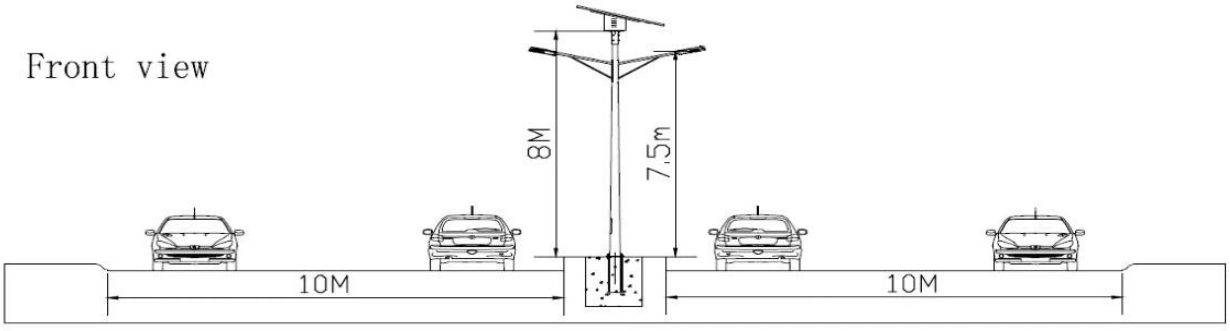
- Road2 is 20 metres width included two parts with an island in the middle, each part is divided into two lanes with a distance 7 Km 800 metres.

Top view



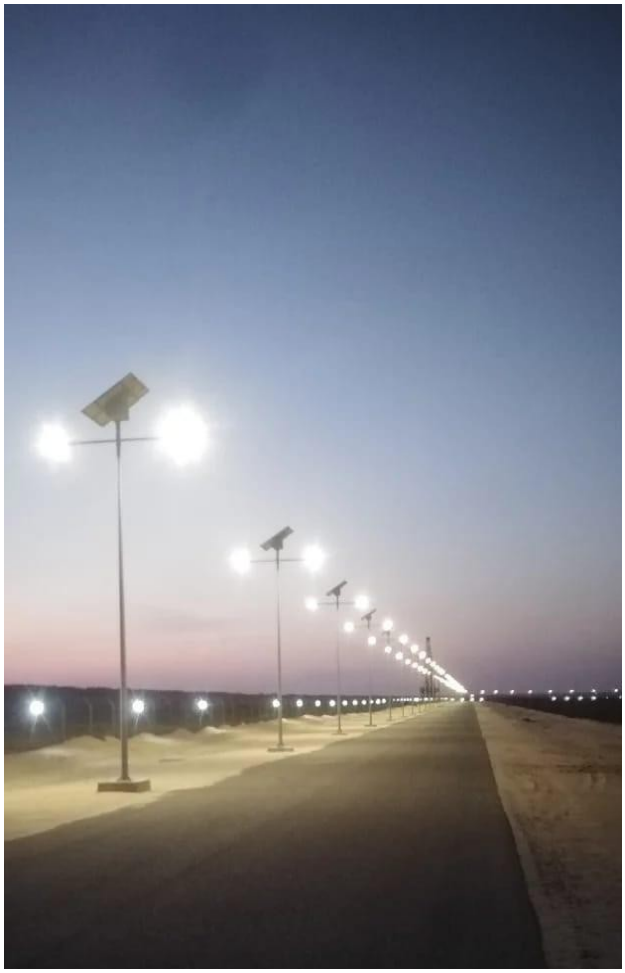
Street plan of compound roads

Front view



Project Specifications

Location: Salim Air Force Base, Kwuait.
End user: Kuwaiti Ministry of defense.
Project Quantity: 596 double arms, 287 single arm.
Project Scope: Illumination of Military air force base in the desert.
Products Used: Sunmaster SLD42.

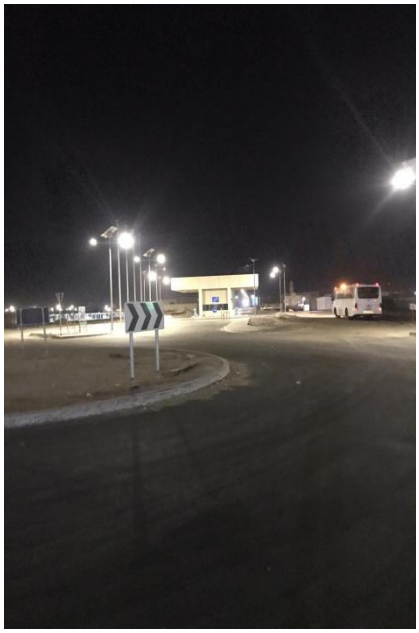
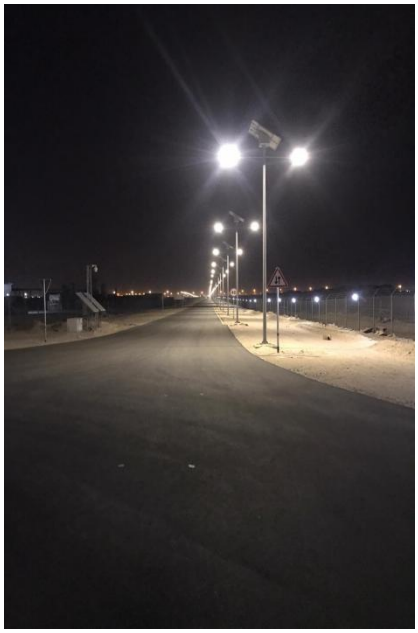
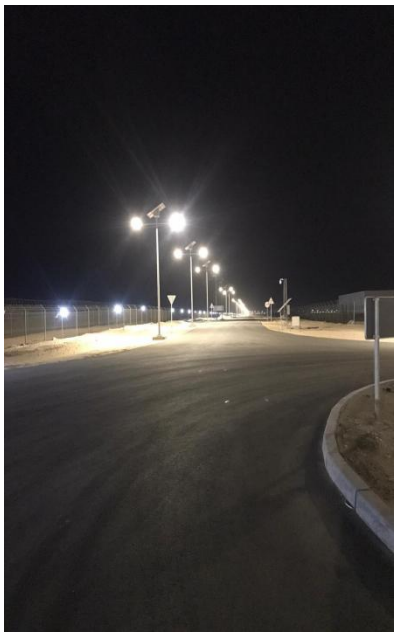


Project overview:
Design,supply and installation guidance for full sets of solar street lighting with GPRS control system in how the End-user can control the lighting by one click and even more to monitor the status of each component in the lighting system.

Project Specification:
- Luminaire: 65W.
- Solar Panel: 150W.
- Battery: 60Ah/12v * 2 pcs.
- Mounting Height: 8m.
- Operation profile: Dusk to dawn.

Project Result

- **Road1:** a quantity of 287 single arm solar lighting sets.
- **Road2:** a quantity of 596 double arms solar street lighting sets.

SunMaster Proposal for Kuwait Ali Al Salem Air Force Base Solar Project get approved

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Transmittal (TR) for Drawings, Documents, Samples, etc.

Project Title	Infrastructure for Ali Al Salem Air Force Base	**Contract No.**	KU/KAF/15/452
Employer	Leonardo Aircraft	**TR No.**	MD/AG8/EL/GN/3121
Contractor	Alghanim International Gen. Trad. & Cont. Co.	**Rev. No.**	0
Consultant	DAR Al-Handasah	**Date**	08/11/2018

We are sending herewith/under separate cover, the drawings/documents/samples listed below.
We certify that the item listed below is in strict accordance with the contract documents.

Qty.	Dwg No.. / BOQ. Ref.	Item Seq. No.	Description	*Type	Submitted For	Action
			Material Data			
1	SEC- 265100			MD	0	B
			Type - Solar System			
			Source: Sunmaster Solar (China)			
			Subcontractor : Bait Al Aseel For Trading & Contracting			

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*Contractor to submit one item only per transmittal.

Submitted for:	1 - Approval	2 - Information		
Action:	A - Approved	B - Approved as Noted	C - Approved and Resubmit	D - Rejected
Type:	SD - Shop Drawings	TS - Test Report	CT - Certificates	MC - Mock-up
	SM - Sample	RM - Re-Measurement	OT - Other	MD - Manufacturer's Data
	GT - Guarantee	VT - Variation	NC - Non-Conformance	AB - As Built

Sub-Contractor	Name and Signature: Jaya	ALGHANIM INT'L GEN. TRAD. & CONT. CO. KAFB PROJECT 11/11/18	Date : 08/11/2018
Contractor	Name and Signature		Date :
Received by ER.	Name and Signature		Date :

Copies to: ☐ Employer ☐ Engineer's Representative ☐ Contractor ☐ Sub-Contractor

Engineer Representative's approval/comments

The proposed Color finish (RAL 9004 Signalschwarz Black Mat) For Solar Street light System (Poles + Luminaires) is Approved As NOTED.
2. Above Color to be Coordinated with MOD for Final Acceptance or otherwise.

Mohsen Mansour
16 November 2018

Corrections or comments made relative to submittals during this review do not relieve the contractor from compliance with the requirements of the drawings and specifications. This check is only for review of general conformance with the design concept of the project and general compliance with the information given in contract documents. The contractor is responsible for confirming and correlating all quantities and dimensions selecting fabrication processes and techniques of the construction coordinating his work with that of other trades, and performing his work in a safe and satisfactory manner and approved by Consultant.

Engineer's Rep.	Name and Signature	DAR Al-Handasah Consultants (Shair & Partners) dar	Date : 17/11/2018

Distribution : ☐ Employer ☐ Engineer's Representative ☐ Contractor ☐ Sub-Contractor

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