



FEDERAL GOVERNMENT OF SOMALIA

PROJECT: SPECIAL FINANCING FACILITY FOR LOCAL DEVELOPMENT  
CONTRACT FOR CONSULTING SERVICES: DEVELOPMENT OF PRELIMINARY AND  
DETAILED ENGINEERING DESIGNS AND SUPERVISION OF CIVIL WORKS  
CONTRACT NO.: MOF/SSF/SERV/08

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**VOLUME 2 – BILL OF QUANTITIES**  
**PROPOSED INSTALLATION OF SOLAR STREET LIGHTING**  
**GARBAHAREY DISTRICT – JUBBALAND STATE**  
**GEDO REGION**

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OCTOBER 2017

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## **SPECIAL NOTES**

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- 1** The Contractor is required to check the numbers of the pages and should any be found to be missing or in duplicate or the figures or writing indistinct, they must inform the Quantity Surveyors at once and have the same rectified. Should the Contractor be in doubt about the precise meaning of any item, word or figure, for any reason whatsoever, or observe any apparent omission of words or figures they must inform the Quantity Surveyor in order that the correct meaning may be decided upon before the date for the submission of the bid.
- 2** No liability whatever will be admitted nor claim allowed in respect of errors in the Contractor's bid due to mistakes in the Bills of Quantities which should have been rectified in the manner described above.
- 3** Any doubt or obscurity as to the meaning or intention of any part of the bid documents, or any question arising, shall be taken up in writing, before submission of the bid so that the same can be clarified.
- 4** The Contractor shall not alter or otherwise qualify the text of these Bills of Quantities. Any alteration or qualification made without authority will be ignored and the text of the Bills of Quantities as printed will be adhered to.
- 5** The Contractor shall be deemed to have made allowance in their prices generally to cover items of Preliminaries or additions to Prime Cost Sums or other items, if these have not been priced against the respective items.
- 6** All items of measured work shall be priced in detail and bids containing lump sums to cover trades or groups of work must be broken down to show prices for each item before they will be accepted. Lump sums to cover items of Preliminaries shall likewise be broken down if so required.
- 7** In no case will any expenses incurred by Contractors in preparation of this bid be reimbursed.
- 8** The copyright of these Bills of Quantities is vested in the Client and no part thereof may be reproduced without their express permission given in writing.
- 9** The Contractor is solely responsible for the accurate ordering of materials in accordance with the Drawings and Project Manager/Architect's instructions and no claims for any loss or expense will be entertained for orders for materials based upon the Bills of Quantities.
- 10** The Contractor shall be deemed to have satisfied themselves before bidding as to the correctness and sufficiency of their bid for the Works and of the rates and prices stated in the priced Bills of Quantities, which rates and prices shall cover all their obligations under the Contract and all matters and things necessary for the proper completion and maintenance of the Works.
- 11** The Contractor shall allow for the payment of all Stamp Charges in connection with the Surety Bond and Contract Agreement.
- 12** Definitions and Abbreviations - Terms used in these Bills of Quantities shall be interpreted as follows:
 

"Approved"	shall mean approved by the Project Manager/Architect
"as directed"	shall mean as directed by the Project Manager/Architect or any other consultant
"BS"	Shall mean the current British Standard Specification published by the British
"CM"	shall mean Cubic Meters
"SM"	shall mean Square Meters
"LM"	shall mean Linear Meters
"mm"	shall mean Millimeters
"Kg"	shall mean Kilograms
"No."	shall mean Number
"m.s"	shall mean Measured separately
"Ditto "	shall mean as described before or as above described
"PR"	shall mean Pairs
"Item"	shall mean Lump Sum

**13** The Contractor shall, upon receiving instructions to proceed with the work, draw up a Time and Progress Schedule setting out the order in which the Works are to be carried out with the appropriate dates thereof. This Time and Progress Schedule is to be agreed with the Project Manager/Architect and no deviation from the order set out in this Schedule will be permitted without the written consent of the Project Manager/Architect. The Main Contractor will be responsible for arranging the above programme with all Sub-Contractors including the Nominated Sub-Contractors and Nominated Suppliers.

**14** The Contractor shall constantly keep on the Works a literate English-speaking Agent or Representative, competent and experienced in the kind of work involved, who shall give his whole time to the superintendence of the Works. Such Agent or Representative shall receive on behalf of the Contractor, directions and instructions from the Project Manager/Architect and such directions and instructions shall be deemed given to the Contractor in accordance with the Conditions of Contract. The Agent shall not be replaced without the specific approval of the Project Manager/Architect.

It is to be a specific condition of this Contract that the successful bidder shall provide on site throughout the period from the completion of the substructure to the Date for Practical Completion a suitably qualified, experienced and competent person to ensure that the works are carried out to the standard required by the specification and detailed on the Drawings; and shall ensure that upon any termination of employment a suitable replacement is found.

Before the bidder's offer is accepted the Project Manager/Architect will personally interview the Contractor's proposed Representative. A curriculum vitae of past experience and qualifications must be provided for the Project Manager/Architect's scrutiny.

The Project Manager/Architect's decision will be final regarding the suitability of the proposed Representative.

**15** All materials shall be new unless otherwise directed or permitted by the Project Manager/Architect and in all cases where the quality of goods or materials is not described or otherwise specified, is to be the best quality obtainable in the ordinary meaning of the word "best" and not merely a trade signification of that word.

All materials and workmanship shall, unless otherwise specified or described, conform to the appropriate British Standards Institution Specification current at the date of bid.

The Contractor shall order all materials to be obtained from overseas immediately after the Contract is signed and shall also order materials to be obtained from local sources as early as necessary to ensure that such materials are on Site when required for use in the Works.

The Contractor shall be responsible for and shall replace or make good at their own expense any materials lost or damaged.

The Works throughout shall be executed by skilled workmen well versed in their respective trades.

**16** Any workmanship or materials not complying with the specific requirements or approved samples or which have been damaged, contaminated or have deteriorated, must immediately be removed from the Site and replaced at the Contractor's expense, as required.

**17** Where proprietary materials are specified herein-after the Contractor may propose the use of materials of other manufacture but equal quality for approval by the Project Manager/Architect.

All materials and goods, where specified to be obtained from a particular manufacturer or supplier are to be used or fixed strictly in accordance with their instructions.

**18** The Bills of Quantities must be priced in US Dollar currency, i.e. US Dollars and Cents.

**19** The bid documents must be priced in ink.

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## **PRELIMINARIES AND GENERAL ITEMS**

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<b>SECTION NO. 1</b>	PRELIMINARIES AND GENERAL ITEMS
<b>SECTION NO. 2</b>	PROPOSED INSTALLATION OF SOLAR STREET LIGHTING GARBAHAREY DISTRICT - JUBBALAND STATE - GEDO REGION
<b>GRAND SUMMARY</b>	

ITEM	ITEM DESCRIPTION	AMOUNT (US\$)
	<p><b>PREAMBLE TO BILLS OF QUANTITIES</b></p>	
<b>A</b>	<p><b>LIGHTING AND POWER</b></p> <p>The Contractor shall provide at their own risk and cost all artificial lighting and power for use on the Works, including all Sub-Contractors' and Specialists' requirements and including all temporary connections, wiring, fittings, etc., and clearing away on completion. The Contractor shall pay all fees and obtain all permits in connection therewith.</p>	
<b>B</b>	<p><b>SAFETY</b></p> <p>In particular there shall be proper provision against falling materials and tools and the Site shall be kept tidy and clear of dangerous rubbish.</p>	
<b>C</b>	<p><b>PROTECTIVE CLOTHING</b></p> <p>The Contractor shall provide all protective or any other special clothing or equipment for their employees that may be necessary.</p> <p>These shall include, inter-alia, safety helmets, gloves, goggles, earmuffs, gumboots, steel toed boots, overalls, etc according to the type of work. The Contractor shall ensure that all safety and protective gear are worn by all staff on site at all times</p>	
<b>D</b>	<p><b>WATCHING AND LIGHTING</b></p> <p>The Contractor shall provide at their risk and cost all watching and lighting as necessary to safeguard the Works, plant and materials against damage and theft.</p>	
<b>E</b>	<p><b>SIGNBOARD</b></p> <p>The Signboard and lettering on same for the display of the General and Sub-Contractors' names shall be of an approved size with the Employer's name painted thereon. The Project Manager/ Architect's, Quantity Surveyor's and other Consultants' names shall be printed in 50 mm letters all to the Project Manager/Architect's approved design. No other signboard or advertising will be permitted without prior permission from the Project Manager/Architect.</p>	
<b>F</b>	<p><b>ENVIRONMENTAL AND SOCIAL MANAGEMENT</b></p> <p>Provide a provisional sum for the costs of implementing the Environmental Management Plan (EMP) that involves the protection, conservation and sustainable use of the various elements or components of the environment such as the following impacts of both the construction and operation phases; health and sanitation, socio-environmental values of the society, adversely noise pollution, construction waste, air/dust pollution, public health safety and awareness, storm-water, insecurity, increased water demand, solid waste generations, demand for electricity and fire hazards &amp; accidents.</p>	
	<p style="text-align: center;"><b>Carried To Collection</b></p>	<p style="text-align: center;"><b>US\$</b></p>

ITEM	ITEM DESCRIPTION	AMOUNT (US\$)
	<p style="text-align: center;"><b><u>Collection</u></b></p> <p>Brought forward from Page      1/4</p>	
	<p><b><u>TOTAL FOR SECTION 1: PRELIMINARIES AND GENERAL ITEMS CARRIED TO GRAND SUMMARY</u></b></p>	<p style="text-align: right;">US\$</p>



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**SOLAR STREET LIGHTING**

**GARBAHAREY DISTRICT**

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ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE (US\$)	AMOUNT (US\$)
	<b><u>PROPOSED INSTALLATION OF SOLAR STREET LIGHTING GARBAHAREY DISTRICT - JUBBALAND STATE - GEDO REGION</u></b>				
	<b><u>SECTION 2: SOLAR STREET LIGHTING</u></b>				
	<b><u>ELEMENT NO. 1</u></b>				
	<b><u>SOLAR STREET LIGHTING</u></b>				
	<b><u>LENGTH COVERED = 1.28 KM</u></b>				
	<b><u>TOTAL LENGTH ASSESSED = 1.28 KM</u></b>				
	<i>Supply and assemble with necessary accessories; fix and install the following on manufacturer's detail and architect's approval</i>				
	<i>Solar Panel Lights</i>				
A	200W Mono/Polycrystalline Silicon solar panel lights	No.	42		
	<i>Battery</i>				
B	12V/250AH gel storage battery	No.	42		
	<i>Lighting points and fittings</i>				
C	60W IP65 LED light fixture	No.	42		
D	Light fixture mounting bracket	No.	42		
	<i>Controller</i>				
E	24V/20 Amp controller to regulate batteries and low voltage disconnect	No.	42		
F	Underground plastic battery box	No.	42		
G	Standard street lighting 8m hot deep galvanized pole with thickness 3.25mm on top at 1.75m height; 4.85mm along the middle at 1.75m; 5.4mm thk at the bottom at height 4.5m with base plate round in shape with slotted holes for 343mm dia anchor bolts. Panel bracket attached at the top; lamp housing welded and connected to the main pole.	No.	42		
H	Provide street lighting pyramid concrete footing 420mm top x 915mm base x 1680 height complete with 4-25mm dia x 750mm galvanized anchor bolts c/w-2 nuts 2 flat washers 1 lock washer each; each has 19mm dia rigid conduit coiled with 2m conductor; duct entry on each side 2-75mm PVC DB2 duct 90deg 610mm radius and approved backfill around footing to be compacted in 150mm layers	No.	42		
I	Provide 3m x 19mm dia ground rod with 19mm dia clamp at every fifth and last pole in the circuit with #8 AWG IGRD	Item			
J	Test the completed lightning system and log in results	Item			
K	Contingency sum				
	<b>TOTAL CARRIED TO THE END OF SECTION 2</b>	<b>US\$</b>			

ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE (US\$)	AMOUNT (US\$)				
<p><b><u>PROPOSED INSTALLATION OF SOLAR STREET LIGHTING GARBAHAREY DISTRICT - JUBBALAND STATE - GEDO REGION</u></b></p>									
<p><b><u>MAIN SUMMARY</u></b></p>									
	<table border="0"> <thead> <tr> <th data-bbox="124 470 242 526"><u>ELEMENT NO</u></th> <th data-bbox="347 470 422 497"><u>TITLE</u></th> </tr> </thead> <tbody> <tr> <td data-bbox="156 616 172 638">1</td> <td data-bbox="347 616 630 638">SOLAR STREET LIGHTING</td> </tr> </tbody> </table>	<u>ELEMENT NO</u>	<u>TITLE</u>	1	SOLAR STREET LIGHTING		<p><b><u>PAGE</u></b></p> <p>2/1</p>		
<u>ELEMENT NO</u>	<u>TITLE</u>								
1	SOLAR STREET LIGHTING								
<p><b>TOTAL FOR SECTION 2: SOLAR STREET LIGHTING - CARRIED TO GRAND SUMMARY</b></p>		<p><b>US\$</b></p>							

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## GRAND SUMMARY

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ITEM NO.	DESCRIPTION	PAGE	AMOUNT (US\$)
<p><b><u>PROPOSED INSTALLATION OF SOLAR STREET LIGHTING GARBAHAREY DISTRICT - JUBBALAND STATE - GEDO REGION</u></b></p>			
<p><b><u>GRAND SUMMARY</u></b></p>			
1	SECTION 1: PRELIMINARIES AND GENERAL ITEMS	1/3	
2	SECTION 2: SOLAR STREET LIGHTING	2/2	
<p><b>SUB-TOTAL</b></p>			
<p>Add for 10% Contingencies</p>			
<p><b>TOTAL AMOUNT CARRIED TO FORM OF BID</b></p>			
		<b>US\$</b>	
<p><b>SIGNED:</b></p>			
<p><b>(CONTRACTOR)</b> .....</p>			
<p>Name of the Authorized Representative .....</p>			
<p>Address: ..... ..... .....</p>			
<p>Tel No: .....</p>			
<p>Date: .....</p>			