

MINUTES OF MEETING FOR PRE-BID MEETING

Date: February 21, 2018 at 10:00am Sana'a time at UNDP office

BID Reference: ITB-YEM-0009-2018

Bid Subject: Solar system

1) **Does UNDP give advance payment?**

It applicable in case one supplier selected for more than 3 lots. At the discretion of UNDP's, it may exceptionally consider advance payment maximum of 20% of contract amount or US Dollars 30,000 (or equivalent) to cover the mobilization cost whichever is the less.

2) **Does UNDP facilitate the inland transportation to Lahj?**

Mainly, the delivery of all systems to each targeted site its suppliers responsibility.

3) **How many years is the maintenance period?**

As specified in tender documents for each lot. Please see the following table

After Sale Service & Warranty
The PV modules will be warranted for a minimum period of 25 years from the date of supply. (Output wattage should not be less than 90% at the end of 10 years and 80% at the end of 25 years).
The mechanical structures, electrical components including inverter and overall workmanship of the Solar System must be warranted for a minimum of 2 years . Except the batteries should be warranted for 1 years .
System Performance Should be Warranted for 1 Year with 80% Performance Ratio.
The contractor shall make arrangement to maintain a sufficient stock of essential spares and consumable spare parts to ensure proper maintenance of the system promptly. (Necessary maintenance spares for five years trouble free operation shall also be supplied with the system)

4) **How long is the distance between the targeted schools and districts?**

Please refer to the distribution tables below to find out the address of targeted sites.

5) **In Lots#5 what is the right quantity for Hodaidah? Is it 8 as it's in the table or 12 as in the data sheet?**

It is 12 solar systems of 2.7Kw as specified in below table:

LOT 5

2.7 Kw Hajjah and Al Hodaidah

Gov.	District	Activity	Location Name	2.7 Kwp Solar PV Power Solution with battery backup
Hajjah	Abs	School	Al Najah-Shafar	1
	Abs	Health	Al Badah	1
	Abs	Health	Red Crescent	1
Al Hodaida	Bajel	School	Khawlah bent Alazwar	1
	Bajel	School	FarisAlwaqian	1

Gov.	District	Activity	Location Name	2.7 Kwp Solar PV Power Solution with battery backup
	Bajel	Productive Assets	Alme'agar Neighborhood (Lole Abdoh)	1
	Almraw'ah	Productive Assets	Sadam Neighborhood (Gbrah Ali)	1
	Alzohrah	School	Al Fateh	1
	City	local offs.	IDPs	1
	City	local offs.	Local Authority Office	1
	City/ Alhok	Productive Assets	Alsabaliah Neighborhood (Fatheah Omar)	1
	City/ Alhok	Productive Assets	Alsabaliah Neighborhood (Noal Azey)	1
Total				12

- 6) Could UNDP advertise the bid in word document in addition to the PDF?
We can provide it in PDF, please see attachment of the ITB
- 7) Which company will do the inspection and testing of the equipment before installation?
This is UNDP's responsibility to determine the inspector for solar systems samples, before supplying and installation.
- 8) Can we apply for one lot?
Yes, you can. Its allowed as for each lot. The vendor can apply for one lot or for different lots.
- 9) Can delivery time take longer time due to security situation in the country?
As indicated in the ITB: 2 months for installing 1-2 lots and 4 months for installing more than 3 lots.
- 10) Annex A-1 page 5 there is a missing sentence that need to be rectified, what is the missing sentence?
The missing sentence is " Max Open circuit Voltage (Vdc): To be specified by bidder MPPT Efficiency : not less than 95%"
- 11) Do we have to submit a drawing of the entire system?
You must be provide the connection diagram of system which contain all system details.
- 12) Can we offer any size of the banner not only 300 "which is suitable to the requested system"?
As we specified on the tender documents, the Solar Panel Wattage at STC: Shall be $\geq 250Wp$ (Bigger watt size Solar PV module will be preferred). Recommend 300Wp.
- 13) For the street lights system, can we offer all in one integrated system?
Yes, you can, but you should be noted that all components of system must be correspond the technical specifications listed in tender documents.
- 14) How can we install the street lights system?
A stand-alone solar photovoltaic (SPV) street lighting system (SLS) is an outdoor lighting unit used for illuminating a street or an open area. It consists of **photovoltaic (PV)**

module(s), Luminaries (LED) with control electronics (Photocell), battery (lead acid/Lithium ion), inter-connecting wires/cables, module mounting Pole including hardware and battery box. The control electronics is fixed inside a luminaries which is mounted on the **pole**. The PV module is placed at the top of the pole at an angle to maximize incident solar radiation, and a battery is placed in a box attached to the pole. The module is mounted facing south, so that it receives solar radiation throughout the day, without any shadow falling on it. Electricity generated by the PV module will charge the battery during the day time. This system operates from dusk to dawn.

- 15) **For the batteries, can we offer two options? Can the supplier offer 2 options?**
No, you must be submit one option in your offer.
- 16) **Do you accept the carbon batteries?**
No, Please see the tender documents and comply with the terms of the tender
- 17) **For panel capability, can we offer more than 16%?**
Yes, you can.
- 18) **Why you requested high thickness of the cables and in the fact the system can be connected by less than what was requested?**
As described in the tender document, please comply with the specifications of the tender.
- 19) **What is the percentage of the technical evaluation?**
There is no percentage in the evaluation as the tender follows the ITB evaluation mechanism:
X Pass/Fail Criteria on the Technical Requirements.
- 20) **For the wiring, why you requested G1 pipe?**
GI pipe with **funnel** for watering earth to reduce the electric resistance of earth.
- 21) **For the Fan, why you did not specify the size of fan?**
- All necessary technical specifications of ceiling fans specified in tender documents including size (Sweep: **At least 1200 mm**), please see the technical specifications of ceiling fans in tender documents.
- 22) **Do you prefer international or local made system?**
The only criterion in the preference between products is the well known global / international quality standards / certificates.
- 23) **Can you provide us with the list of locations in each governorates?**
Yes, you can see the below tables which contain the locations name and its address.

LOT 1

1.2 Kw Hajjah and Al Hodaidah

Gov.	District	Activity	Location Name	1.2 Kwp Solar PV Power Solution with Battery Backup
Hajjah	Aslam	local offs.	Education Office	1
	Aslam	local offs.	Health Offices	1
	Aslam	Health	BaiyAmer	1

Gov.	District	Activity	Location Name	1.2 Kwp Solar PV Power Solution with Battery Backup
	Aslam	Health	Alnoa'aman	1
	Aslam	Health	BanyAla'aysi	1
	Aslam	Health	Al Domna'a	1
	Aslam	localAsso.	Al Fogha'a– Incense	1
	Aslam	localAsso.	Deer Aysa– Incense	1
	BaniQaissQai	localAsso.	Alrabia'ah- Incense	1
Al Hodaida	Bajel	Health	Bani Ahmed	1
	Bajel	Health	Malaria Center	1
	Bajel	Health	Deer Salem	1
	Alzohrah	Health	Al Morwagh	1
	Alzohrah	Health	Alkhamees	1
<u>Totals</u>				14

LOT 2

1.2 Kw Lahej and Abyan

Gov.	District	Activity	Location Name	1.2 Kwp Solar PV Power Solution with Battery Backup
Abyan	Lawdar	Health	AlsaelahAlbeda'a	1
	Lawdar	Health	Amsoorah	1
	Lawdar	Health	Mogaifa'ah	1
	Khanfar	Health	Ba Taiss	1
	Khanfar	Health	Shagrah	1
	Khanfar	Health	Al Hesn	1
Lahj	Toban	Health	Al Hamra'a	1
	TaorAlbaha	Health	Al Farsha'a	1
	TaorAlbaha	Health	Al Samitah	1
<u>Total</u>				9

LOT 3

1.8Kw Hajjah and Al Hodaidah

Gov.	District	Activity	Location Name	1.8 Kwp Solar PV Power Solution with Battery Backup
Hajjah	Abs	School	Alzahra'a	1
	Abs	School	AlzobairabnAla'awam	1
	Abs	School	Al Qadesia	1
	Aslam	School	Alemam Abo Hanifah	1
	Aslam	School	Al HikmahAlymaniah	1
	Aslam	School	Abdullah AbnMasa'od	1
	Aslam	School	AlemamAlshafa'ae	1
	Aslam	localAsso.	Al Mahmola– Sewing	1
	BaniQaiss	localAsso.	Koshar– Sewing	1
	city	local offs.	Rural water supply	1
	city	local offs.	Executive Unite for IDPs	1
	city	local offs.	Social service	1
Al Hodaida	Bajel	School	Alwahdah	1
	Bajel	School	Al Fawz	1
	Bajel	Health	AlaOmal health center	1
	Alzohrah	School	Fatimah Alzahra	1
	Alzohrah	School	Al Nasr Female Building	1
	Alzohrah	School	Al Ershad	1
	Alzohrah	Health	Almo'atarad	1
	Alzohrah	Health	Almo'arass	1
<u>Total</u>				20

LOT 4

1.8Kw Abyan and Lahej

Gov.	District	Activity	Location Name	1.8 Kwp Solar PV Power Solution with Battery Backup
Abyan	Lawdar	School	Belqees – Al habeelZarah	1
	Lawdar	School	Al Shaheed Mehnef -	1
	Lawdar	School	Alfarog – AalHezm	1
	Khanfar	School	Mohamed Aldorah - Saken	1
	Khanfar	Health	Gea'ar	1
	Khanfar	Prod.	Al Gool Women Ass.	1
	city	local offs.	Education Local Office	1
	city	local offs.	Health Local Office	1
Lahj	Toban	School	Alzahrah – Alfoosh	1
	Toban	School	Alkhansa – Alhabeel	1
	Toban	School	Zaidah – Zaidah	1
	Toban	Health	Al Feoosh	1

Gov.	District	Activity	Location Name	1.8 Kwp Solar PV Power Solution with Battery Backup
	Toban	Health	Herran	1
	Toban	Prod.	Shabab Al HamraAssoci.	1
	TaorAlbaha	School	Sa'ad ben Mouath	1
	TaorAlbaha	School	Al-Zahra	1
	TaorAlbaha	Health	Al Goul	1
	TaorAlbaha	Health	Alrja'a	1
	city	local offs.	Healthy Office	1
	city	local offs.	Healthy Facility	1
Total				20

LOT 5

2.7 Kw Hajjah and Al Hodaidah

Gov.	District	Activity	Location Name	2.7 Kwp Solar PV Power Solution with battery backup
Hajjah	Abs	School	Al Najah–Shafar	1
	Abs	Health	Al Badah	1
	Abs	Health	Red Crescent	1
Al Hodaida	Bajel	School	Khawlah bent Alazwar	1
	Bajel	School	FarisAlwaqian	1
	Bajel	Productive Assets	Alme'agar Neighborhood (Lole Abdoh)	1
	Almraw'ah	Productive Assets	Sadam Neighborhood (Gbrah Ali)	1
	Alzohrah	School	Al Fateh	1
	City	local offs.	IDPs	1
	City	local offs.	Local Authority Office	1
	City/ Alhok	Productive Assets	Alsabaliah Neighborhood (Fatheah Omar)	1
	City/ Alhok	Productive Assets	Alsabaliah Neighborhood (Noal Azey)	1
Total				12

LOT 6

2.7 Kw Abyan and Lahej

Gov.	District	Activity	Location Name	2.7 Kwp Solar PV Power Solution with battery backup
Abyan	Lawdar	School	Al shahedAlaobaidy – Ala'as	1
	Lawdar	Health	Delivery Unit in Lawder Hospital	1
	Khanfar	School	Al Hesn	1
	Khanfar	School	AlsadbnyBatais – Gea'ar	1
	city	local offs.	Local Authority Office	1
Lahj	Toban	School	Abas – Alhusaine	1
	Toban	Health	Alwahed	1
	TaorAlbaha	School	Khadejah	1
	TaorAlbaha	School	Omar ben Abdulaziz	1
	city	local offs.	Local Authority Office	1
<u>Total</u>				10

LOT 7

Ceiling Fansand LED Bulbs

Hajjah and Al Hodaidah

Gov.	District	Activity	Location Name	Ceiling Fan	LED Bulbs
Hajjah	Abs	School	Alzahra'a	Ceiling fans will be distributed into locations with coordination of the inspector	10
	Abs	School	AlzobairabnAla'awam		10
	Abs	School	Al Qadesia		10
	Abs	School	Al Najah - Shafar		10
	Abs	Health	Al Badah		5
	Abs	Health	Red Crescent		5
	Aslam	School	Alemam Abo Hanifah		10
	Aslam	School	Al HikmahAlymaniah		10
	Aslam	School	Abdullah AbnMasa'od		10
	Aslam	School	AlemamAlshafa'ae		10
	Aslam	local offs.	Education Office		5
	Aslam	local offs.	Health Offices		5
	Aslam	Health	BaiyAmer		5
	Aslam	Health	Alnoa'aman		5
	Aslam	Health	BanyAla'aysi		5
	Aslam	Health	Al Domna'a		5
	Aslam	localAsso.	Al Fogha'a - Incense		5
	Aslam	localAsso.	Deer Aysa - Incense		5
	Aslam	localAsso.	Al Mahmola - Sewing		5

Gov.	District	Activity	Location Name	Ceiling Fan	LED Bulbs
	Aslam	local Mark.	Alsomod		0
	BaniQaiss	localAsso.	Koshar– Sewing		5
	BaniQaiss	localAsso.	Alrabia'ah- Incense		5
	Hj city	local offs.	Rural water supply		5
	Hj city	local offs.	Executive Unite for IDPs		5
	Hj city	local offs.	Social service		5
Al Hodaïda	Bajel	School	Khawlah bent Alazwar		10
	Bajel	School	Alwahdah		10
	Bajel	School	FarisAlwaqian		10
	Bajel	School	Al Fawz		10
	Bajel	Health	AlaOmal health center		10
	Bajel	Health	Bani Ahmed		5
	Bajel	Health	Malaria Center		10
	Bajel	Health	Deer Salem		5
	Bajel	local Mark.	Alsomod Market		0
	Alzohrah	School	Fatimah Alzahra		10
	Alzohrah	School	Al Nasr Female Building		10
	Alzohrah	School	Al Fateh		10
	Alzohrah	School	Al Ershad		10
	Alzohrah	Health	Al Morwagh		5
	Alzohrah	Health	Almo'atarad		5
	Alzohrah	Health	Almo'arass		5
	Alzohrah	Health	Alkhamees		10
	City	local offs.	Executive Unite for IDPs		10
	City	local offs.	Local Authority Office		10
Total				415	315

LOT8

Ceiling Fansand LED Bulbs

Abyan and Lahej

Gov.	District	Activity	Location Name	Ceiling Fan	LED Bulbs
Abyan	Lawdar	School	Belqees – Al habeelZarah	Ceiling fans will be distributed into locations with coordination of the inspector	10
	Lawdar	School	Al Shaheed Mehnef - Alnajda		10
	Lawdar	School	Alfarog – AalHezm		10
	Lawdar	School	Al shahedAlaobaidy – Ala'ayn		10
	Lawdar	Health	AlsaelahAlbeda'a		10
	Lawdar	Health	Amsoorah		10
	Lawdar	Health	Delivery Unit in Lawder Hospital		10
	Lawdar	Health	Mogaifa'ah		10
	Khanfar	School	Mohamed Aldorah - Saken		10
	Khanfar	School	Al Hesn		10
	Khanfar	School	AlsadBnyBatais – Gea'ar		10
	Khanfar	Health	Ba Taiss		10
	Khanfar	Health	Shagrah		10
	Khanfar	Health	Gea'ar		10

Gov.	District	Activity	Location Name	Ceiling Fan	LED Bulbs
	Khanfar	Health	Al Hesn		10
	Khanfar	Prod. Asso.	Al Gool Women Ass.		0
	city	local offs.	Local Authority Office		5
	city	local offs.	Education Local Office		0
	city	local offs.	Health Local Office		0
Lahj	Toban	School	Alzahrah – Alfoosh		10
	Toban	School	Alkhansa – Alhabeel		10
	Toban	School	Zaidah – Zaidah		10
	Toban	School	Abas – Alhusaine		10
	Toban	Health	Al Feoosh		10
	Toban	Health	Al Hamra'a		10
	Toban	Health	Herran		10
	Toban	Health	Alwahed		10
	Toban	Prod. Asso.	Shabab Al HamraAssoci.		0
	TaorAlbaha	School	Sa'ad ben Mouath		10
	TaorAlbaha	School	Khadejah		10
	TaorAlbaha	School	Al-Zahra		10
	TaorAlbaha	School	Omar ben Abdulaziz		10
	TaorAlbaha	Health	Al Farsha'a		10
	TaorAlbaha	Health	Al Goul		10
	TaorAlbaha	Health	Alrja'a		10
	TaorAlbaha	Health	Al Samitah		10
	city	local offs.	Local Authority Office		5
	city	local offs.	Healthy Office		5
	city	local offs.	Healthy Facility		10
Totals				380	335

LOT 9
Solar Street Lighting System
Hajjah and Al Hodaidah

Gov.	District	Activity	Location Name	30 - 60 Watt Solar Street
Hajjah	Aslam	Local Market	Alsomod	10
Al Hodaidah	Bajel	Local Market	Alsomod	10
Total				20

With best of luck!
Procurement unit