

United Nations Development Programme

Programme of Assistance to the Palestinian People

برنامج الأمم المتحدة الإنمائي / برنامج مساعدة الشعب الفلسطيني



ITB-2011-044

Addendum No. 01 dated 20 January 2012

Pre-bid Meeting Minutes – Addendum No. 01

ITB-2011-044: Rehabilitation of agricultural wells- Nablus and Qalqiliyah districts

Issue Date: 03 January 2012

Original Closing Date & time : 26 January 2012 at 10 a.m

Extended Closing Date & time : 31 January 2012 at 10 a.m

Dear Bidders,

This correspondence pertaining to the above-mentioned project should be considered as an integral part of the tender documents. Below please find the UNDP/PAPP clarifications and an official reply to all inquires raised by participant bidders following the pre-bid meetings/site visits held on **16 January 2012 and 17 January 2012**.

The following clarifications are considered as Addendum No. 1 to the Invitation to Bid, which shall be deemed to form and be read as part of the tender:

A. Please be informed that the bid submission deadline has been **extended** as follows:

Bids must be delivered to the following address **on or before 10 a.m. (Jerusalem time) on 31 January 2012:**

United Nations Development Programme (UNDP / PAPP)
4A Ya'qubi Street
PO Box 51359
Tel: 02-6268200
Jerusalem

Late bids shall be rejected

B. Clarifications on the pricing of the Bill of Quantities (BoQ):

1. The following amended condition shall **replace and supersede** the corresponding condition included originally in the first page of the BoQ:

The Bidders shall quote competitive and reasonable prices for BoQ items, including for Provisional items, with an acceptable margin of deviation in comparison to the real local market prices at the time of bids preparation. UNDP, however, reserves the right either to implement or cancel the Provisional items subject to availability of funds. In case of Unbalanced pricing (i.e. despite an acceptable total evaluated price, the price of one or more BoQ line items is significantly over or understated), UNDP had the right to reject the unbalanced bid if it determines that the lack of balance does pose an unacceptable Risk.

The lowest priced Bidder is the one who quoted the lowest Grand Total **excluding** the provisional items **(total of column (A) in the BoQ summary page)**



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All bidders are requested to price the **provisional items** competitively and reasonably as this will be taken into consideration in the bids evaluation. UNDP reserve the right to **reject** any bid which doesn't include the provisional items duly priced. Furthermore, UNDP reserves the right to subject the priced provisional items to price negotiations based on the reasonable market prices at the time of implementation.

2. In the BoQ summary page (last page), the following is amended:

"Grand total sum– total of Column (C) - (in words)" shall read "**Grand total sum– total of Column (A) - (in words)**"

C. Clarifications on the Bill of Quantities and Specifications of the Water Pumping Systems

1. The electric motors are vertical hollow shaft type, totally enclosed fan cooling complete water proof with high protection degree(IP55) and insulation class H, including none-reverse ratchet, Thermal protection should be by thermistors.
 - a. Maximum temperature of the motor installation site (Well Site) is 46°C this should be respected by selection of the motor type.
 - b. Thrust load is 1.5x rated load. Motor Power (HP): The most nearest available standard value to the calculated value can be selected (i.e. for 23HP we select 25HP and 40HP instead of 41HP, and 50HP instead of 47HP and for Salman Well 75HP instead of 80HP).
2. For the control panel the over load will be according to the load current value :
 - a. $0.8-1.5 \cdot I_{rated}$.
 - b. Surge arrestors : $4 \cdot 20kA$ is acceptable
3. PVC Pipes: At least SCH40 is acceptable, but better type as UPVC-SCH80 is preferred and will be considered during offer evaluation.
4. Water level sensor: Accepted is the simple ON/OFF sensor where both wires are of strong stainless steel, differential pressure type or digital are not required.
5. Type of none return valve (NRV): Requested is the swing type with opening cover and arm with weight (NR040).
6. Pipes used to connect meters and valves: Pipes with internal cement lining and external epoxy coating are not accepted. Only 6" steel pipes 4mm thick internally and externally coated with backed epoxy for connecting the flow switch, pressure switches, meters and valves are acceptable.
7. Riser pipes: I/O galvanized steel pipes instead of I/O epoxy coated pipes are not acceptable, acceptable is only as specified in tender document.
8. Turbine: I/O epoxy coating instead of internal porcelain and external epoxy coating is not accepted, acceptable is only as specified in the tender document.
9. Diesel Electric Generators: The following specifications are mainly and finally valid for this item and should be considered instead of the short specifications of the diesel generator sets given in the BoQ for each of the first five wells:
 - a. Each offered diesel electric generator in this tender must have "prime rating" and should be fully matched with the electric load. It means it should be capable to start and operate efficiently the related vertical induction motor driving the pump correctly through the related control board respecting the features of the available soft start and overload protection. No objection towards adding any necessary assisting components (as Star/Delta three phase switch and capacitors) or increasing (as necessary) the kVA rating of the diesel generator set to be matched with the offered vertical induction motor and delivering its high starting current.
 - b. The Diesel-Electric Generator Set should be a robust unit engineered to operate in the remote and harsh environment. It must be of highly resistant construction, water cooled, naturally aspirated, close circuit breathing, excellent maintenance access, exhaust silencing system



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enclosed for operator safety and fully lockable with common key for extra safety and security. Diesel motor, three phase generator, control panel and battery should constitute one unite built on one strong stable steel structure that can be safely moved. The diesel electric generator set should have also the following specifications :

- i. Output voltage : Sinusoidal three phase 380V , 50Hz
- ii. Engine speed : 1500 revolution per minute
- iii. Rated power: (Prime) apparent power (kVA) should be appropriate to start and operate efficiently the related vertical induction motor driving the pump via the control panel which includes the soft start and overload protection.
- iv. Voltage regulation : +/- 0.5
- v. Total harmonic content : < 4%
- vi. Battery: 12VDC with 100 Ah –capacity (ground is negative), battery charge regulator with current Icharge >40A
- vii. Control panel of the diesel electric generator set: should include main power switch and protection devices and instrumentation to measure and indicate at least the voltage, the current, frequency and the temperatures of the generator set.
- viii. Insulation class : H and ingress protection IP23
- ix. Maximum temperature of the installation site : 46 °C
- x. Cooling system : Water (Pump type : centrifugal)
- xi. Fuel: Diesel, fuel filter type is replaceable.
- xii. Air filter type is replaceable

10. Each electric control cabinet of each well should include a kWh-meter and a manual change over power switch in a separated section of the cabinet with extra door and lock. The two wells in Qalqiliyah (Al Razazeh and Salman) have two kWh-meters that can be installed in a separated section of the control cabinet and do not need change over power switches.
11. Each pressure relief valve should be properly adjustable according to the related given total pumping head for each well so that the pump will never be exposed to dangerous too high pressure.
12. Both low pressure and high pressure switches and the flow switch on each well should be also properly adjustable to ensure continuous proper function and safety of the pump.
13. Catalogues including detailed description, specifications and functions of the main offered components of each water pumping system for each well (electric motor, discharge head, Plate, gear, column pipe with stainless steel shaft, vertical turbine pump, diesel electric generator, flow meter, air relief valve, high pressure switch, low pressure switch, flow switch and pressure gauge) should be submitted. More over performance curves for the offered pumps illustrating their H-Q performance and efficiency in function of Q are very important to be submitted with the offer.
14. Certificate test for each pump type (stability, balance, vibration) with performance curves H-Q and efficiency in function of discharge are necessary.
15. The diesel electric generator set will be located indoor, therefore it is without canopy.
16. Contractor is responsible in case the need for any tests required before or after the implementation according to the specifications and conditions specified in the bid documents.

17. Well Data :

Item	Well No.	Well Depth (m)	well diameter (inch)	Casing Inch (inch)	Casing Depth (m)	Capacity m ³ /h	Total Head	Static Water Level (m)	Dynamic Water Level (m)	Draw Down (m)
1	18-18/013	40	N/A	10	18	40	80	11.6	14.35	2.75
2	18-18/014	18	N/A	12	9	40	70	13.35	14.9	1.55
3	18-18/019A	125	12	10	100	45	125	47.6	70.1	22.5



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Item	Well No.	Well Depth (m)	well diameter (inch)	Casing Inch (inch)	Casing Depth (m)	Capacity m ³ /h	Total Head	Static Water Level (m)	Dynamic Water Level (m)	Draw Down (m)
4	18-18/031	70	12	10	60	50	110	12	21	9
5	18-18/031A	77	12	10	75	40	160	9.6	22	12.4
6	480	130	14	12	40	40	180	86	87	1
7	15-17/015	90	N/A	12	35	100	110	55	56	1

Note: the above data collected from the available resources including Ministry of agriculture, Palestinian water authority, well owners and operators, some of these data has been verified and others are not.

D. Other clarifications :

- 1- A joint venture (JV) entity of mechanical and electrical contractors is eligible to submit a bid, given that both JV partners are classified as minimum **Grade 2** in their respective fields.
- 2- Minimum **Required Engineers** for implementation of the project are as follows (this **amends** the corresponding clause in the Bid Data Sheet of the ITB)
 - **Qualified Electrical & Mechanical Engineers: Both** with a minimum of 5 years of experience in works of a similar nature to the required under the project (full time) or One Electro –mechanical Engineer but provided he is qualified in both fields and is approved by the Employer (full time)
 - **Civil Engineer** with Engineering degree and minimum of 5 years experience in works of a similar nature to the required under the project. (Part time but to be available whenever required during project implementation)
- 3- Contractor is responsible for generating the electricity needed for his work.
- 4- **Pre-shipment inspection of the pumps** at the manufacturer plant may be required. Therefore, the contractor is required to ensure that the manufacturer of the pumps will host and fully cooperate with the designated Experts from the Employer side to check the pumps quality. The costs associated with the said Expert's mission, such as tickets, travel costs, etc., **shall be borne by the Employer alone.**

Interested bidders shall acknowledge receipt of this addendum by returning/including it, signed and stamped, with their bids.

For your kind attention and reference,

Sincerely Yours,

Khaled Shahwan
Deputy Special Representative (Operations)

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