



REQUEST FOR QUOTATION (RFQ)

SUBJECT: PROCUREMENT AND INSTALLATION OF SIX (6) METROLOGICAL STATIONS

Date: 19 June 2014

Ref.: RFQ-2014-172

Dear Sir / Madam:

We kindly request you to submit your quotation for the goods and services under subject, details of which are in Annex 1 of this RFQ.

Please be guided by the form attached hereto as Annex 2, in preparing your quotation.

Quotations may be submitted on or before **3 July 2014, 10 a.m. (Jerusalem time)** and via **quotation.papp@undp.org or fax No (+972) (02) 626 8 257**.

It shall remain your responsibility to ensure that your quotation will reach the address above on or before the deadline. Quotations that are received by UNDP after the deadline indicated above, for whatever reason, shall not be considered for evaluation. If you are submitting your quotation by email, kindly ensure that they are signed and in the pdf format (to be electronically received, **email' size (with attachments) should not exceed 5MB; multiple emails could be sent as needed**).

Please take note of the following additional requirements and conditions pertaining to the supply of the abovementioned good/s:

Delivery Term [INCOTERMS 2010]	DAP (Jordan, Palestine, Israel)
Exact Address of Delivery Location	Location in Palestine: Maleh Shobash Catchment Location in Israel: Gilboa Hills Location in Jordan: Zarqa River Basin
Delivery Date	Supplier shall provide the delivery time from placement of purchase order to delivery of the goods to the specified location
Preferred Currency of Quotation	United States Dollars
Tax on Price Quotation	must be exclusive of VAT and other applicable indirect taxes



Payment Terms	100% within 30 days upon UNDP's acceptance of the delivered goods and successful operation of the system as specified and receipt of invoice
Conditions for Release of Payment	☒ Installation ☒ Inspection ☒ Testing ☒ Operation ☒ Training on Operation and Maintenance ☒ Written Acceptance of Goods based on full compliance with RFQ requirements
Language	English; All documentations, including data sheets, catalogs, instructions and operating manuals, shall be in this language
Alternative offers	Not permitted
<u>Additional documents to submit</u>	☒ Company registration certificate ☒ Tax Clearance Certificate ☒ Company profile ☒ Methodology to supply and install the system in the three locations. ☒ List and value of contracts successfully completed in the last three (3) years of a similar size and nature, including contact details of clients who could be contacted for reference purposes. ☒ Detailed specifications , including full technical data of all proposed equipment. Catalogues in English should be provided for all goods tendered for ☒ Manufacturer, model and country of origin ☒ Detailed delivery schedules and milestones from placement of order to installation and commissioning equipment ☒ Full details of 12 months warranty ; and details of extended warranty options ☒ Confirmation that spare parts will be available in the market for the coming 10 years; ☒ Quality Assurance certificates: TUV, CE, ISO9001:2001/2008 (or equivalent) ☒ Maintenance Schedule for installed equipment and details of how/who should undertake this maintenance; For exported items: ☒ A statement whether any import or export licenses are required in respect of the goods to be purchased including any restrictions on the country of origin, use/dual use nature of goods or services, including and disposition to end users;



	☒ Confirmation that licenses of this nature have been obtained in the past and an expectation of obtaining all the necessary licenses should the quotation be selected. ☒ Manufacturer's Authorization of the Company as a Sales Agent and authorization for maintaining the product where applicable.
Period of Validity of Quotes starting the Submission Date	90 days
Partial Bids	Not Permitted. The bidder shall be able to procure, supply and install the six stations in the three locations and guarantee the successful operation of the system and compatibility.
Warranties	All equipment provided shall have a minimum of one (1) year warranty covering both parts and services.
Performance Security	Does not apply
Evaluation Criteria	☒ Technical Expertise ☒ Capability to install the stations in the three locations ☒ Technical responsiveness/Compliance to requirements ☒ Price meeting the budget ☒ Comprehensiveness of after-sales services
Award of Contracts	This tender will result in (1) Purchase Orders with (1) bidder. Winning bidders are: 1) Responsive to tender requirements. 2) First lowest in price 3) Has the capabilities to deliver, install and provide after sale services.
Annexes to this RFQ	☒ Specifications of the Goods Required (Annex 1) ☒ Form for Submission of Quotation (Annex 2) ☒ General Terms and Conditions (Annex 3). Non-acceptance of the terms of the General Terms and Conditions (GTC) may be grounds for disqualification from this bidding process.
Purchaser's Right to Vary Requirements at Time of Award	25% increase or decrease
Contact address for Inquiries	proc3.papp@undp.org

United Nations Development Programme

Programme of Assistance to the Palestinian People

برنامج الأمم المتحدة الإنمائي / برنامج مساعدة الشعب الفلسطيني



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Resilient nations.*

RFQ-2014-172

Goods proposed shall be reviewed based on completeness and compliance of the quotation with the minimum specifications described above and any other annexes providing details of UNDP requirements.

The quotation that complies with all of the specifications and requirements and offers the lowest price shall be selected. Any offer that does not meet the requirements shall be rejected.

Any discrepancy between the unit price and the total price (obtained by multiplying the unit price and quantity) shall be re-computed by UNDP. The unit price shall prevail and the total price shall be corrected. If the vendor does not accept the final price based on UNDP's re-computation and correction of errors, its quotation will be rejected.

After UNDP has identified the lowest price offer, UNDP reserves the right to award the contract based on ex-works price in the event that the transportation cost is found to be at high side.

Any Purchase Order that will be issued shall be subject to the General Terms and Conditions herein attached hereto.

UNDP is not bound to accept any quotation, nor award a contract/Purchase Order, nor be responsible for any costs associated with your preparation and submission of a quotation, regardless of the conduct or outcome of the selection process.

Our vendor protest procedure is intended to afford an opportunity to appeal for persons or firms not awarded a purchase order or contract in a competitive procurement process. In the event that you believe you have not been fairly treated, you can find detailed information about vendor protest procedures in the following link: <http://www.undp.org/procurement/protest.shtml>. It is, however, not available to non-responsive or non-timely bidders or when all bids are rejected.

UNDP implements a zero tolerance on fraud and corrupt practices, and is committed to preventing, identifying and addressing all such acts and practices against UNDP, as well as third parties involved in UNDP activities.

Sincerely yours,

Khaled Shahwan
Deputy Special Representative
(Operations) - UNDP/PAPP



Handwritten signatures and initials in blue ink.



Annex 1 TECHNICAL SPECIFICATIONS

Country: Occupied Palestinian Territory

A. Project name: Fostering co-operation on water management between the Palestinian Israeli, and Jordanian water authorities – Hydro-climate model

B. Task: Procurement and installation of Six (6) Metrological Stations (two (2) in Palestine, two (2) in Jordan, and two (2) in Israel

C. Specifications of the Metrological Station

Item	Description
1	Meteorological station (AWS) with GSM/GPRS data transmission (push or pull) <u>Meteorological sensors:</u> Rain Gauge • Tipping bucket rain gauge with compact dimensions. • Bucket suspension on one side only with double ball bearings. • Bucket made of plastic material to reduce weight. • Suspension of the complete measuring mechanism including collection funnel for bucket contains suspended on one axle and equipped with spirit level and one fixing screw for easy adjustment of the entire mechanism in horizontal position independent from the housing of the instrument. • Collection funnel of bucket contains must be easily removable and must be fixed by one centre screw. • The entire outer instrument housing must be made of white coated aluminum to reduce weight. • The collection funnel must have 200cm² collection area and is required in plastic material for more neutral thermal reasons. • Only systems entirely made of corrosion free material are acceptable. • The compact dimensions of the instrument (max. 350 x 207) must allow an internal installation of a data logger without extra housing • Possibility to attach a bird protection ring to rain gauge • Rain gauge must be mounted on a 2" metal stand with fixing flange. Total height incl. rain gauge: 1200 mm • Installation at a minimum distance to meteorological station: 5m



Item	Description
2	Combined Humidity and Temperature Sensor Temperature Sensor: - Measuring range: -10°C up to +60°C - Resolution: 0,1°C - Accuracy: +/- 0,3°C - Power supply: 4-24V - Output: 0-1V - fixing for 30mm mast - material: aluminum - Humidity Sensor (0-100%): - Resolution: 0.1% - Accuracy: 2% - Operating Temperature: -10°C up to 60°C - Power Supply: 4-24V - Output: 0-1V - Material: aluminum - Incl. vented housing for protection from direct sunlight
3	Barometric pressure: - Operating Temperature: -10°C up to 60°C - Power Supply: 6 – 24V - Integrated in aluminum (cast aluminum) housing IP66 - Fixing for 30mm mast
4	Combined Wind Speed and Direction Sensor: - for measuring range of 0 – 45m/s - totally made of aluminum including cups of wind speed sensor - Diameter of cup rotating circle > 310mm with analogue output in milli-ampere - Burden: < 60Ohm > 400Ohm - Wind van: - Output: 0-1V - Length: > 800mm - Height: > 400mm - Total height of combined sensor: between 600mm and 700mm - Operation Temperature: -30°C up to 75°C



Item	Description
5	- for 50mm pipe fixing Solar radiation sensor: 305-2800nm - Operating Temperature -40°C up to 80°C 0 – 2000 W/m² - Output: 15 microvolt per W/m² - Material: aluminum with glass dome - Fixing for 30mm pipe
6	Evaporation Pan Class A - Pan totally made of stainless steel - Measuring range: 0 – 50mm - Accuracy: 0-1mm - Operating Temperature 0°C up to 60°C - Power Supply: 6 – 24V - Output: 0 – 1V - Dimension: - Pan: Ø 1206,5 mm - Height: 254mm - Dimension float chamber >330mm - Height: > 80mm
7	<u>Data logger with integrated GSM/GPRS modem:</u> Multichannel data logger with integrated GSM/GPRS modem - Universal data logger for different field station tasks. - Robust and reliable system with serial flash memory for highest data safety. - No lost of data in case of interruption in power supply. - Min. memory capacity of 4 MB (more than 250.000 values) - Real time clock, battery buffered, with accuracy of +/- 1 minute per month - Exact free definable time range for downloading of data without erasing of old data - Must have an integrated GSM/GPRS modem with FTP data push option (different protocols) - SMS data push, dynamic data push depending on user-defined thresholds - Alarm management incl. SMS messaging to at least 8 different mobile phone



Item	Description
	numbers or by email (GPRS) or to a fax • Automatic reset of modem in case of network failure • All control and set up options, data download and programming of data logger shall also be done by online session similar to all functions at site by direct connection to a PC without any difference; • Integrated alpha-numerical display for indication of values (current and last memorized), date, time, status (of each channel), battery status and physical units (3 lines, 16 characters each) • 3 plastic foil function buttons for manual operation • LED-Indication of data transmission and processor operation • Possibility to perform and show modem and network diagnostics on data logger display such as: registered IP-address, name of network, field intensity, information about gateway server • Alert functionality for automatic alarming in case of reaching a freely predefined threshold for each channel. Actions of system according to action plan and communication ways, settable at site or remotely. • Possibility of min./max./mean value calculation and registration in separate time series • Polynomial calculation of virtual sensors • Different recording modes: time-, dynamic- and event controlled • Failure safe protocol for field net applications (digital sensors and telecommunication) • Download of data without stop of measurement • 1 x RS232 interface for operation, 1 x RS485 sensor interface • At least up to 32 logical channels, min. 2 analogue inputs onboard, expandable analogue inputs via external A/D converter • Must have impulse input for rain gauge • At least 2 contact inputs (control, protocol) • Optional SDI-12 sensor interface • Option for Bluetooth interface • Full control, operation and adjustment of data logger by palmtop, portable PC or via online connection • Power supply: 4.5...20VDC • Standby power less than 70µA • Consumption during transmission not exceeding 500mA • Power management battery control. • Water tight plastic housing with internal clamp section. Spring clamps for cable connection without tools.



Item	Description
8	- Protection class: IP65 - Operation temperature range: -30°C...+70°C with integrated GSM/GPRS Modem - for data transmission via GSM/GPRS network - frequency: 850, 900, 1800, 1900 MHz (Quadband) - SIM-card: 3 V or 1,8 V - with external antenna Power supply: Station shall be powered by solar panel 12V/12W incl. jib for fixing the panel on protection housing
9	Solar charging regulator - system voltage: 12V DC - mounting: rail mounting Battery 12V / 27 Ah - completely <u>maintenance-free</u> gel battery
10	Accessories: Instrument housing with safety-lock made of fiber-reinforced plastic material, UV-resistant, IP 64 protection, watertight cable inlets, prepared for mast installation, able to pick up data logger, battery and cables. Mast made of aluminum, 4m high including foot nails and set of tensioning cables and sensor boom 1m, only non-corrosive metal like aluminum and stainless steel Lightning Rod - for protecting of the meteorological station - material: steel, hot galvanized Grounding Set - for grounding the mast



Item	Description
11	Field-Software: Operation and Read out Software For operation, setup and read out of data logger Menu should operate with the following characteristics • Indication and manipulation of the configuration of the data logger • Different data formats for handover of data for evaluation (proprietary format and ASCII format) with the possibility to use the data in different standard software programs such as EXCEL • Programming and down- or upload of prepared configuration sets for the data logger in both directions • Option to program the data logger for fixed interval, event (threshold) mode, dynamic mode (depending on a deviation from last value) or to log min/max data only • Start/Stop of measurement • Start at a predefined point of time • Option to put commentaries to the data logger such as identification of measuring site configuration or extraordinary events etc. • Option to put in control data (station guide function) • Individual configuration of each single input channel • Different options for calling of data a) Sampling of data and start of a new measuring period b) Sampling of data and stop of measurement c) Sampling of data without any interruption (continuous time series) d) Download of old (former) time series e) Download of complete memory contains • Direct communication with data logger • Option of data conversion to ASCII • Automatically calibration of data logger channels. • Modem communication with all a.m. features (also by GSM Modem)

D. Description of the Catchments Areas

The Maleh-Shobash catchment in West Bank / oPt: the total area is 537 km² and characterized by relatively medium elevation and orographic¹ precipitation where the annual precipitation is

¹Orography is the study of the formation and relief of mountains and can more broadly include hills, and any part of a region's elevated terrain. Orography (also known as oreography, orology or oreology) falls within the broader discipline of geomorphology.



ranged from 450mm in the west to about 250 mm in the east. The catchment area covers the hydro geological boundary of the Northeastern and Eastern Aquifers; and considered as the sources for the water recharge at the North-East Tip of the Eastern Aquifer and the springs in Bardala and Kardala areas. This part of the Eastern Aquifer is an important water resource in the region and measuring climate information and simulations will help for operating and planning the water use in this region.

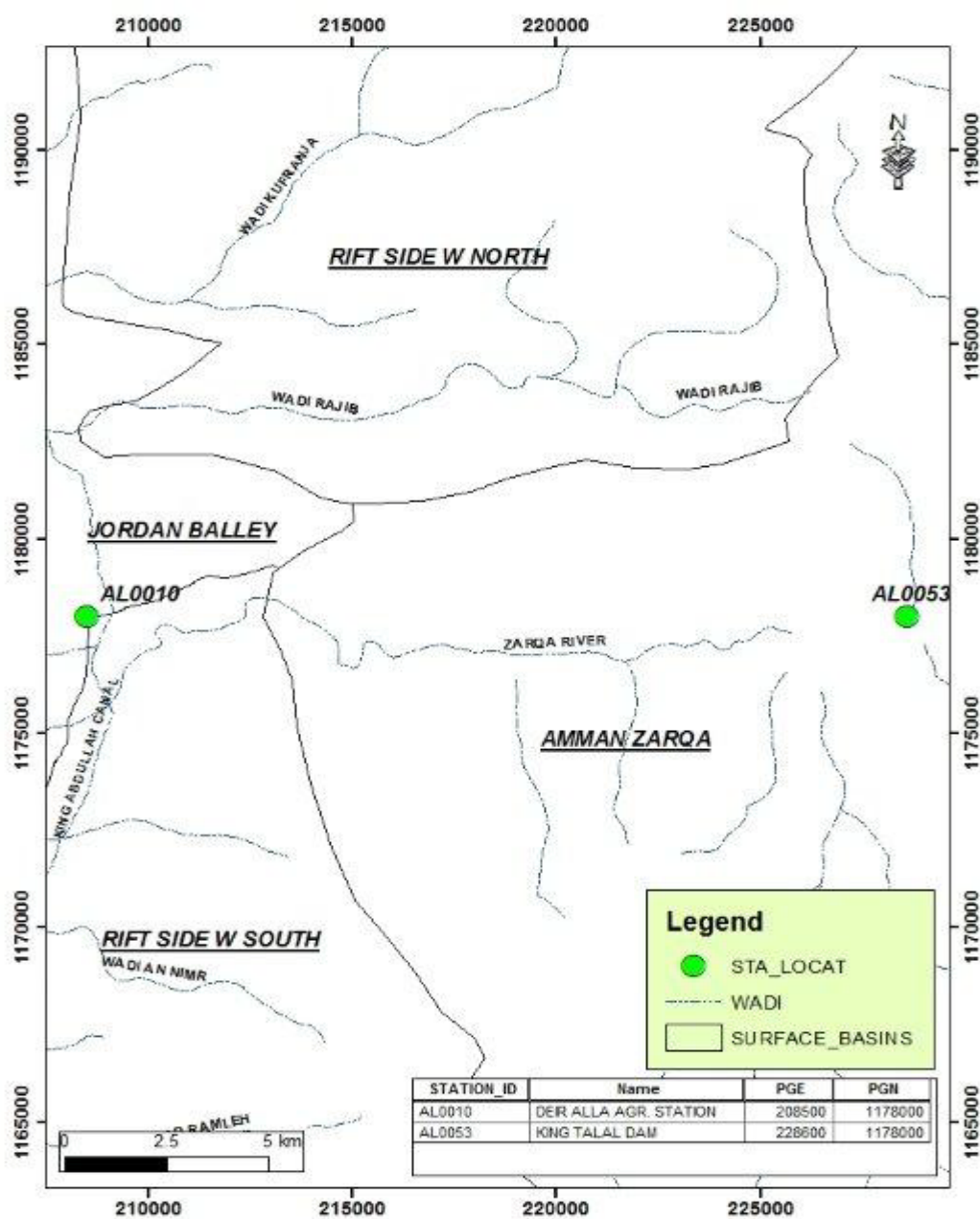
The Gilboa hills, Israel: The Gilboa hills are drainage to the Northeast Mountain Basin, which is a portion of the greater Mountain Aquifer. The hill goes up to 550 m MSL and the average annual precipitation is between 400 to 500 mm/yr. Several major springs are emerging at the outlet out this aquifer. The basin is an important source of fresh water for both the Israeli and Palestinian populations. Regarding surface water, the Harodstream is the main channel that drainage the hills and it is flowing east to the Beit-She'an Valleys and then to the Jordan River. Better representation of the meteorological conditions will allow us to model both groundwater and stream flow in this area.

Study area # 3 in Jordan: Both of the selected sites in Jordan lie in Zarqa river basin (AZB).

The Basin is located in the central part of Jordan and extends from Jabal Druz (in Syria) east to the river of Jordan in the Ghor west. The AZB comprises an area of about 3900 km², where 89% is located in Jordan and 11% inside the Syrian territory. The Zarqa River Basin (Figure 1) is the second main tributary to River Jordan after Yarmouk River, and thus one of the most significant basins in the country with respect to its economic, social and agricultural importance the area of the Zarqa River Basin is about 3,900 km² with mean annual rainfall for the watershed is about 300 mm. The mean annual stream flow is about 63 million cubic meters (MCM). The Zarqa River is perennial with typical monthly flows of 2 to 3 MCM during summer and 5 to more than 8 MCM during winter. The Zarqa River is controlled by the King Talal Dam which provides a storage capacity of 86 MCM. The Amman-Zarqa basin is one of the major sources of water for King Talal dam which is used mainly for agricultural activities in the Jordan valley. Along the basin there are many sources of water contributing to Zarqa River it includes fresh water from surface runoff, industrial water discharging its wastewater into the river and around 85 MCM of treated wastewater from Kherbat Es-Samra.

E. Locations of installing Metrological stations

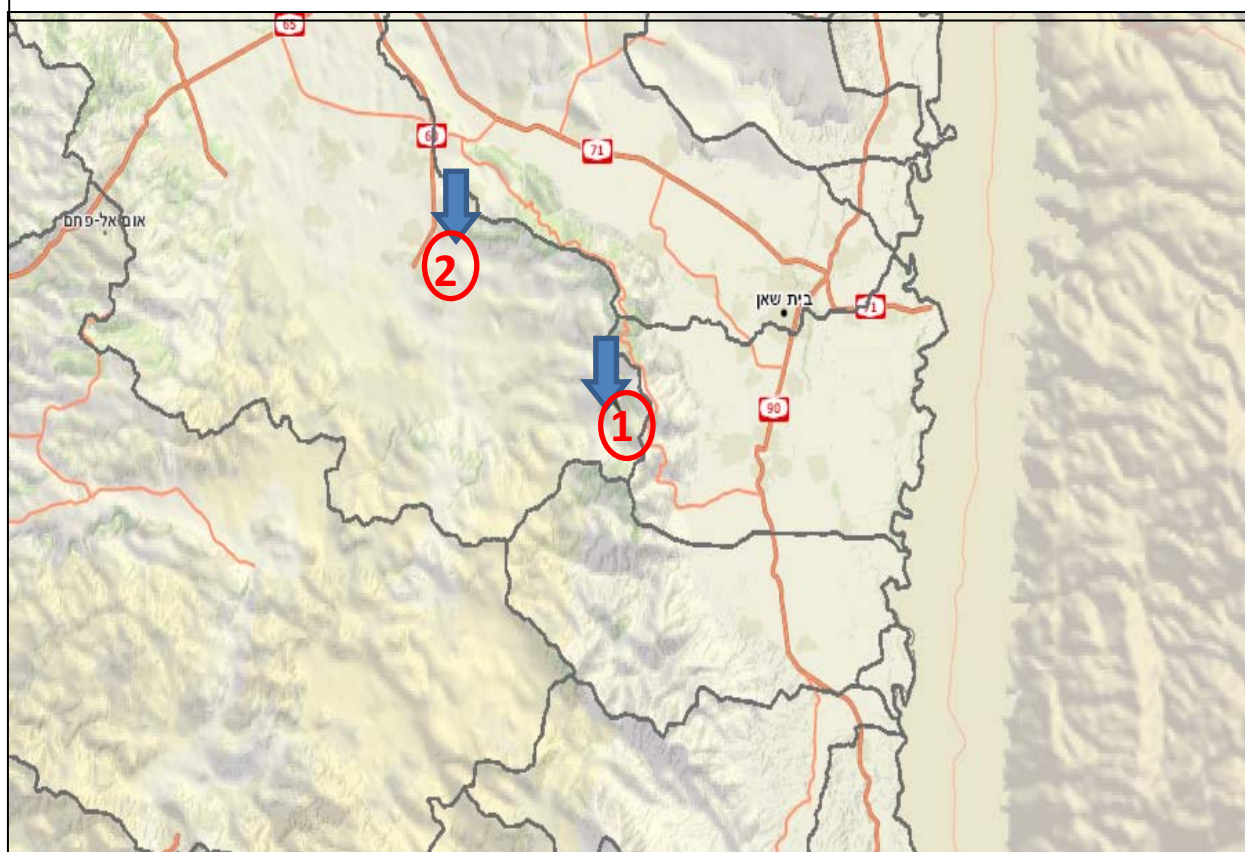
1. Location of metrological stations in Jordan



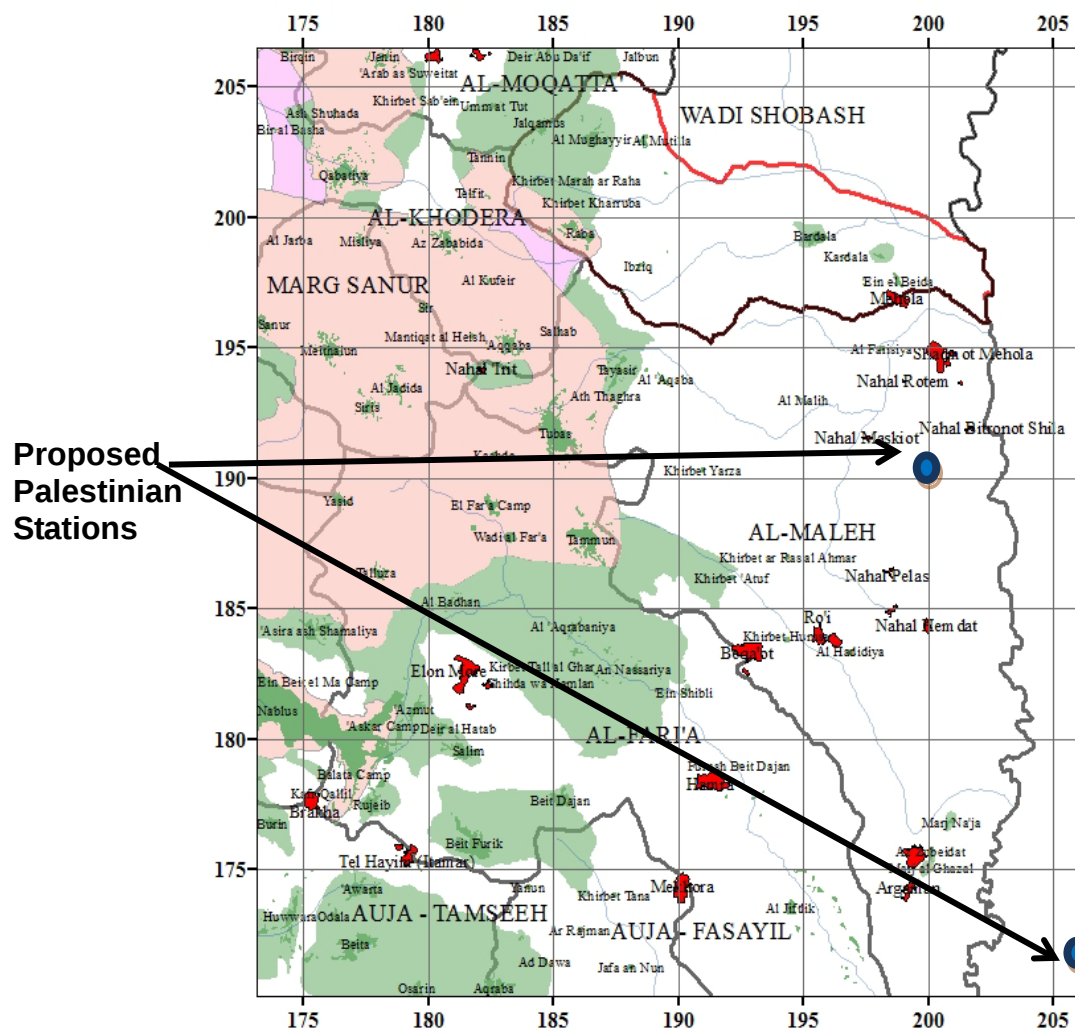


2. Location of Metrological stations in Israel

Location of the Metrological stations in Israel: The Harod basin



3. Location of the Metrological stations in West Bank / oPt



No	Location	X	Y	Z (mSL)	Catchment
1	Maleh	195.222	192.803	7	Maleh
2	MarjNajaSc	201.095	176.926	-235	Maleh

P.S: These locations ARE verified by GPS in April 2, 2014.



Annex 2

SUPPLIER'S QUOTATION

We, the undersigned, offer to supply the items listed below in conformity with the RFQ specification, terms and conditions:

Item No.	Description/Specification of Goods	Quantity	Unit Price USD	Total Price per Item USD
1	Metrological Stations in Palestine	2		
2	Metrological Stations in Jordan	2		
3	Metrological Stations in Israel	2		
Total Prices of Goods in USD including cost of Installation and Operation, Training, Transportation to final destination, Insurance, excluding VAT and Tax.				

Other Information pertaining to our Quotation are as follows :

Delivery Lead Time	
Estimated weight/volume/dimension of the Consignment:	
Country/ies Of Origin:	

All other information that we have not provided automatically implies our full compliance with the requirements, terms and conditions of the RFQ.

[Name and Signature of the Supplier's Authorized Person]

[Designation]

[Contact address]

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Annex 3 GENERAL TERMS AND CONDITIONS

Available on

<http://www.ps.undp.org/content/papp/en/home/operations/procurement.html>