



**To : All Bidders (Manufacturers of Pharmaceuticals)**

**From : Chief, Procurement and Logistics Division,  
UNRWA Headquarters, Amman**

**Subject : Reply to Queries against EOI/2015/CPS/0003 –For the Pre-qualification of Suppliers for Mobile Dental Clinic and Dental Equipment to UNRWA Jordan Field Office, Amman.**

UNRWA received a query about the above mentioned Expression of Interest. Please see UNRWA's responses below to the query:

**Query # 1:** We will appreciate if you can send us detailed technical specifications request and quantity needed for LOT1 and LOT2?

**UNRWA's Reply:** ANNEX 1-Terms of Reference is amended to The detailed technical specification of the requested LOT1 and LOT2. The needed quantities from each item will be published in the formal solicitation which will follow this pre-qualification exercise, in the form of an Invitation to Bid (ITB) and will be sent to the Pre-qualified suppliers.

Please also be advised that the **Closing Date and Time: Monday, the 26<sup>th</sup> of October 2015 at 12.00 noon (mid-day) Amman local time.**

Regards,

**Kelvin Ezekiel Kellie**

**Chief, Procurement & Logistics Division  
UNRWA HQ (Amman)**



## **ANNEX 1 – Terms of reference**

### **Lot # 1 Mobil Dental Clinic Complete with the following specifications:**

#### **Vehicle Specifications:**

1. Diesel engine
2. Euro 2 or 3 emission level
3. White color
4. Brand new vehicle ( not used)
5. Local dealer availability in Jordan
6. Warranty on vehicle for at least 2 years

#### **Driver Compartment**

1. Air conditioned driver's compartment.
2. AM/FM radio.

#### **Body Box:**

##### **External Dimensions of the clinic:**

1. Length: Not more than 5 meter
2. Width: Not more than 240 CM
3. Height: Not more than 220 CM

#### **Warranty**

- A. Air conditioner – two (2) years, Unlimited miles;
- B. Corrosion – Five (5) years;
- C. Diesel engine – three (3) years;
- D. Emissions – five (5) years;
- E. Frame rail corrossions – five (5) years;
- F. Generator – 1,000 hours, unlimited miles;
- G. Noise emissions ( quiet operating system) – life of vehicle;
- H. Suspension – two (2) years, unlimited

#### **Dental Chair Unit and Accessories**

##### **Complete Dental Unit consisting of the following:**

**A. Patient Chair (European Origin or CE certified)**

1. Standard patient chair for right handed operation.
2. Automatic rest to zero position.
3. Manual push-buttons movement of raising, lowering and backrest tilting.
4. Wide backrest
5. Articulating cushion head rest.
6. All chair functions are activated by a touch panel on the Dentist Element.
7. Operated from a multi-function foot control.
8. Has emergency stop switches.

**B. Dentist element with OTP arm and hanging hoses (upper connector):**

1. Configuration of the dentist element to three programme positions .
2. The height of the tray is continuously adjustable.
3. Intra-oral x-ray viewer.
4. Equipped with touch panels to control chair movement and programming as well as cuspidor and tumbler filling functions.
5. Single foot control.
6. Has 6 instrument positions.
7. Has 3 connectors:
  - 2 for air turbin borden 4 holes with 2 hand pieces (click and go)
  - 1 for air motor borden 4 holes with straight and contra angle hand pieces (click and go).
  - 3 way syringe.
  - Ultrasonic scaler (Piezo System) with two sets of scaler tips (3 tips/ each set).

**C. Assistant element**

1. Attached to the water unit.
2. Short arm assistant element.
3. Equipped with 3-way Syringe, Saliva Ejector, High-volume Evacuator.
4. 2 dental stools

**D. Water Unit, consist of:**

1. Air-jet pump.
2. Spittoon-unit (cuspidor).
3. Tumbler filling and bowl flush are programmable and activated from the dentist element.
4. Control panel for the Assistant.
5. Amalgam separator.

**E. Operating Light Unit:**

1. High performance operating light with two intensities, protective shield, removable handles and concentrated beam shadow less.

**F. Silent Oilless Air Compressor:**

1. Nominal voltage 230/50 (60).
2. Operation pressure: 4.5-6.0 bar.
3. Air tank capacity 25-50 Liter.
4. Delivery: 200 Liter/minute.
5. Power hose: 1.5-2.0.

**Wall mounted X-Ray Unit**

- A. 220V, 50/60Hz, 10mA, 70KVp.
- B. long cone, one horizontal arm and two vertical articulating arms.
- C. Effective focal point 0.8 \* 0.8mm.
- D. Total filtration 2.1mm.
- E. Oil cooling system.
- F. Tube head weight: 7-8Kgs.

**Light cure LED light unit:**

- A. Cordless gun or pen type for polymerization of light curing dental material.
- B. 400-600 nanometers.
- C. With integrated electronic light meter.
- D. Rechargeable

**Amalgamator:**

- A. High speed with timer (1-30 seconds)
- B. Electronic secured protection.
- C. Very stable.
- D. Extremely quiet.
- E. Very easy to clean and maintain.

**Dental Steam Sterilizer with multiple sterilization cycles:**

- A. Sterilization cycle: 121c-134c.
- B. Capacity: 17-20 liter.
- C. Trays: 4 trays 283x180mm.
- D. Absorbent power: 1400w.
- E. Feeding power: 220v, 50/60Hz.
- F. Construction: Stainless steel

## Dry Heat Oven

- A. Medium size
- B. Stainless steel structure with removable , perforated 3-4 trays
- C. Thermostat; automatic, adjustable 0-200
- D. Timer: 0-120 minutes
- E. Thermometer of high precision

## **Lap top, as per following specifications:-**

### **Notebook Computer (Portable PC) - 15.0" Display (Slim without internal DVD/CD drive)**

- A. Processor: Intel Core i5-5300UM (2.3 GHz) minimum
- B. Secondary Cache RAM: Minimum 3-MB
- C. System Memory: 4 GB 1600 MHz DDR3 SDRAM, expandable to a minimum of 16 GB
- D. HDD Capacity: Minimum 500 GB, 5400 RPM
- E. Power Supply 110/220 VAC Switchable AC Adapter, Battery: 4-Cell 51W/HR
- F. Minimum Interfaces:-
  - 4 x USB 2.0 (2 side/front, 2 back)
  - 1 x External VGA Port 1 x Docking Connector
  - 1 x microphone-in-jack; stereo headphones/speakers jack
  - 1 x Integrated 10/100/1000 BaseT Network Card (compatible to IEEE 802.3.
  - (The card must be operational and with drivers for TCP/IP & MS Networks)
  - Built-in wireless adaptor WPA compliant, 802.11g
  - Bluetooth
- G. Keyboard: Full size Arabic/English keyboard with MS Windows keys, Backlit keyboard (For Dell Only)
- H. Pointing device: Integrated
- I. Display Screen: 15.6" HD display with minimum resolution: 1366\*768
- J. Video Graphics controller: Graphics controller with 256 MB RAM min.
- K. Cameras: Integrated Full HD Camera with Microphone
- L. Security: Power conservation utilities turning off the hard drive and display, or side lighting after a period of inactivity. LED indicator and/or audible alert when battery power is low. Desirable: Auto resume feature
- M. Operating System: MS Windows 8.1 Professional Edition, US English version with an original CD and a certificate of authenticity (License)
- N. Carrying Case: Leather Carrying Case

### **Treatment room**

- A. Isolated seamless fiberglass roof – protection from moisture/ excessive summer heating; and, heat retention in cold weather.
- B. Walls fortified to support X-Ray arms.
- C. LED ceiling lighting with controls throughout the clinic.
- D. Exhaust Fan
- E. Aluminum porcelain – sink and tap with hot water
- F. Sufficient, well distributed electric sockets to operate equipment
- G. Utility area – Ample storage cabinets or drawers (for supplies) throughout vehicle (with separately keyed locks.
- H. Office- sized Refrigerator.
- I. Have all cabinet /counter tops fabricated of Corian or similar material with a bullnose edge.
- J. 2 patient Bank seating
- K. Operable glass window with mini blinds , metal protection
- L. 24000 BTU, ceiling / side mounted AC at treatment room.

### **Other features**

- A. All system in the mobile dental clinic should be operated by a land line power supply through an approx. 30m long electric cable and through a petrol or diesel powered whisper quit 7000 watt generator which is housed and insulated in a separate easy servicing compartment, equipped with changeable switch.
- B. Have master switches to turn on water, compressor, and all electricity
- C. Self-contained fresh water & waste water storage approximately 200 liters each with volume indicators and water heating system to sink.
- D. An external waste valve for water and waste disposal with 10-15 meter drainage pipe.

### **Warranty**

- A. 2 years warranty for all medical equipment and generator.
- B. 2 years warranty for air conditions

### **Literature and general conditions**

- A. All medical equipment should have a local agent
  - 1. At time of delivery the successful respondent shall supply the following for all equipment:
  - 2. Repair manual.

3. Parts manual.
4. Service manual (the service manual must cover the complete vehicle including emissions diagnosis).
5. Maintenance manual.
6. Operator's manual.
7. Dental Equipment manual for all dental equipment with complete specifications and wiring information.
8. Compressor manual with complete specifications and wiring information.

### **Lot # 2 Dental Equipment**

#### **Dental X-ray unit**

- **Digital Panoramic X ray unit Specifications**

- 1. Fully Digital Panoramic X ray unit using CCD sensor technology.**

- 2. Patient Positioning:**

- a. Patient Positioning through Exact and immediate positioning in the sharp layer using a bite block.
- b. Stable, accurate and reproducible patient positioning using 3 points fixation technique
- c. Centrally controlled, motorized height adjustment, forehead and temple supports
- d. Only 2 light localizers are required for ideal positioning in the sharp slice.

- 3. 16 Bit image acquisition, technology, optimized preprocessing**

- 4. Direct connection to the Network without a dedicated PC with built in capture board and Network card.**

- 5. Software:**

- a. Upgradeable Software system.

- b. Using state of the art SW for image acquisition, processing, archiving and reporting.
- c. Same SW platform as all imaging modalities integrated into the Digital imaging network of the center.
- d. Unlimited License for all working stations in the same practice which helps to the expansion in the digital viewing and archiving with no extra cost.

**6. Programs:**

- a. Four programs. Each program has a specific orbital curve to deliver the best results for the corresponding task

**7. Spine compensation with automated KV increase not through dose increase.**

**8. Tubehead:**

- a. Multipulse High frequency Generator (120 KHZ)
- b. X ray Tube Voltage:60-90 KV
- c. X ray Tube current:3-16 MA
- d. Focal Spot Size:0,5 mm x0,5 mm.
- e. Total Filter:2.5 mm AL

**9. All controls on a control panel on which all parameters are displayed.**

**10. Remote Control where exposure parameters are displayed on its screen**

**Note: Warranty at least two years.**

**Automatic steam autoclave for sterilization of liquids and other hard2**

- a. Chamber dimensions 30-35 cm (Diameter) x 60-70 cm (Depth) Approx. 50-3. LCD Display.
- b. Internal tanks with pump powered filling system
- c. The clean water tank, and the used water tank are autonomous and
- d. Fixed sterilization cycle parameters 15 min. at 121-134 C for liquids
- e. Power supply: 220V, 50/60 Hz. 8. Complete with accessories as follows:
  - a. User manual in English.
  - b. Temperature control switch.
  - c. Door safety catcher.
  - d. Over heat display.
  - e. Safety Valve.
  - f. Electronic safety system.
  - g. Sterilization complete indicator.
  - h. Emergency exhaust switch.
  - i. Special auto-heat program.



**Notes:**

- Price to be including installation & training the concerned using staff.
- After sale services & availability of spare parts.
- A minimum of one year warranty.
- Offers should be approved by Health Dept., JFO

**The DENTAL UNIT** including installation and training, with availability of a local agent and two years warranty from the date of installation.

The complete dental chair consisting of the components described below:

**Patient Chair**

- a. Electro-mechanical type, maintenance free
- b. The chair is controlled by microprocessor with safety features
- c. Upholstery: Seamless & removable, Multi-motion Headrest
- d. Lifting capacity not less than 140 Kg.
- e. All movements could be controlled from both control panels on the dentist table and assistant panel

**Programs:**

- a. Pre-Programmed positions
- b. Zero position
- c. Last position memory (Rinsing position)
- d. Minimum two programmable positions:
- e. The chair provided with safety switches sensitive to obstacles when lowering the chair or the backrest
- h. Patient Chair with Wide Backrest.

**Dentist Element**

- a. Dentist Element with OTP arm and Hanging hoses( upper connector) Style.
- b. Five instruments positions with:
  - 1st. position: Turbine Hose (Midwest type/ 4-holes) with push button turbine handpiece
  - 2nd. position: Turbine Hose (Midwest type/ 4-holes) with push button turbine handpiece
  - 3rd. position: Electrical Micro motor, internal spray, with: Contra-angle hand piece. internal spray, push button.
  - 4th. Position: Ultrasonic scalar with 4 different tips.
  - 5th. Position: 3-way syringe.

- c. X-ray viewer

#### **Water Unit (Assistant Element)**

- a. Automatic Cup filler with timer can be operated from the dentist element.
- b. Cuspidor with Automatic Bowel rinsing flush system can be operated from the dentist element.
- c. High volume surgical suction with vacuum pump & with two hoses:
  - One for surgical suction. with three different size HP1
  - One for saliva ejector.
- d. control panel for the assistant

#### **Multi-function Footswitch for controlling the following:**

- a. Programmed chair movements:
- b. Rinsing position (last-position memory)
- c. Zero position
- d. Controlling the instruments (Turbine, Micro motor & Scalar)

#### **Operating Light:**

- a. Cold light, shadow-less & the intensity is not less than 20,000
- b. Two intensities.

### **Two Working Stools**

#### **Dental Compressor**

- a. Single-phase motor 50 Hz - 230V
- b. Air tank not less than 24 liters.
- c. Delivery air at 5 bar not less than 65 lt/ min
- d. Oil-Free

#### **Notes:**

- Price to include installation & training of the concerned staff.
- After sale services & availability of spare parts.
- two year warranty from the date of installation.

#### **Dental unit, stationary, complete**

- 1. steel tray

2. operating light concentrated beam shadow less
3. cup filler
4. spitton unit (caspidor)
5. water suction (with filter)
6. high volume surgical suction
7. balance arm
8. film viewer
9. 3-way syringe connection
10. two hand piece connectors:
11. one for air micro motor, borden two holes
12. one for air turbine, borden two holes
13. with hand pieces:
14. high speed (air turbine) hand piece normal standard head, borden 2 halls
15. low speed air motor complete with contra angle and straight heads
16. dental chair, electro-mechanical:
17. automatic rest to zero position
18. manual push-button movements of raising, lowering and backrest tilting
19. the seamless upholstery is easy to clean, pillow can be attached to the surface of the upholstery of the headrest or
20. backrest upper section, the surface of the upholstery of the headrest or backrest upper section