Removal and Disposal of Rubble and Hazardous Materials Generated as a Result of Latest Escalation in November 2012 in Gaza
PAL 10-71488

Bill of Quantity (BOQ)
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PREAMBLE TO BILL OF QUANTITY (BOQ)

1. GENERAL
The nature of this contract is measured unit price contract and the Bill of Quantity (BOQ) shall reflect this fact.

BOQ shall be read and construed in conjunction with other Contract Documents.


The Tenderer is obliged to check the number of the pages of the Bill of Quantity and should any be found missing or duplicated or the figures or writing indistinct, the Tenderer must notify the Employer/Engineer at once and have the matter rectified before the Tender is submitted. No liability whatsoever will be accepted in respect of any claim for errors in the Tenderer’s offer resulting from failure to comply with the fore-going.

The Tenderer is deemed to have visited the site/s and fully acquainted himself as to the location of each of the items and works to be carried out and to all conditions which may affect the performance of the works, including but not limited to:

- Access to each of the roads where demolishing and removal process will be carried out, and Access for the storing dump site and crushing site.
- Affected buildings’ conditions.
- Restrictions applicable to working in GAZA Strip area.
- All safety regulations and employer site safety procedures.
- All Palestinian regulations.

The Tenderer is also deemed to have surveyed the actual condition of the site and buildings and made his own assessment of the type and extent of the works prior to submitting his offer.

2. QUANTITIES
Even though that practical care was exercised in preparing the BOQ, but all quantities given herein shall be deemed to be estimated quantities of the work to be done but they are not to be taken as actual and correct quantities of the work to be executed and they are not to absolve the contractor of his obligations under the Contract. They are not to be taken as guarantee that the actual quantities increase or decrease, and any claim
whatsoever submitted for cost or extra expenses incurred from such increase or decrease will not be accepted by Employer/Engineer (UNDP) except where else stipulated in the Contract. All transported rubble should be weighted in UNDP crushing site in Khanyounis. Exception could be made for those quantities transported to Fisherman port in Gaza but in this case the contractor will use at his own expenses an approved private weighting balance. In this case contractor will be paid according to submitted weighting ticket.

3. MATERIALS
All materials used are to be of the best new available and subject to the Employer/Engineer approval, and of durable nature, guaranteed, not liable to any base exchange and manufactured according to applicable BS, ASTM or DIN Standards. Execution also is subject to approval of Employer/Engineer and shall be the best available common practice in engineering codes at the time of execution.

Items that contain materials or products of special make with names of manufacturers are to be taken as samples of what will be required. Subject to the Employer/Engineer approval, the Contractor may, at his discretion, offer similar products of other make if the equivalent quality of the specified materials is guaranteed. In this case, the Contractor shall submit a description and/or drawings showing all technical conditions, characteristics, make, type and address of Manufacturer, etc., of the materials offered as alternatives.

4. PRICES AND CURRENCY
The Unit Prices entered against the various items in the following Bill of Quantities include all operations for execution, completion and maintenance of the various items of the works finished completely in every respect till the final acceptance as specified or described in the Tender Documents, with or without modifications, either by way of additions or deductions, or alterations as may be offered in writing during the progress of the works, and include, without being limited to, all matters and things particularly referred to in the Tender Documents.

The Unit Price shall cover all costs of every kind whatsoever including, without being limited to, all charges for additional site installations, relocation, supervision, labor, transportation and supply of materials; the provision, maintenance, use and efficient repair of all plant, equipment and appliance of every kind, the construction and maintenance of all temporary works, the performance of all services and the fulfillment of all obligations and responsibilities herein defined.

The Tenderer shall be deemed to have fully considered all the conditions, obligations, and requirements of the Tender Documents before entering the respective unit price against the various items of the Bill of Quantities.
The Unit Prices given hereunder the BOQ shall also include erection, installation, fixing, and re-fixing of all elements. These prices shall also include taxes, visa for labor, gate passes, accommodations for the Contractor’s staff and labors, all required insurance and work permits, guarantees, bonds, traffic plan requirements, safety procedures, etc. and all requirements necessary to have the work maintained until its final handing over.

The Unit Prices given hereunder in the Bill of Quantity for this work shall also include overheads, risks, profit etc. and all other financial matters to have all these civil works completed.

The works, materials or activities listed in the following shall always be considered as supportive works to be included in the Unit Prices bid for any item in the Bill of Quantities:

- Any measurement for execution and payment of the works, including the provision of measuring instruments, gauges, setting out marks, marking paint and relevant tools, labor, etc., the maintenance and preservation of gauges and setting-out marks during the execution of the works.
- Provision of small tackle tools or any other equipment required for the execution of the works.
- Supply of consumable materials for the Contractor’s equipment.
- Removal of all contamination (refuse, debris, building rubbish and the like) arising from or in connection with the Contractor’s work.
- Protection of the executed works and of the items made available for execution of the works from damage, fire, inclement weather, vandalism and theft etc., to the time of final acceptance.
- Transportation of all materials and structural components from the storage places on site to the points of use and return transportation, if required.
- Submitting and transporting any samples required.
- Carrying out tests on materials and works, etc., that is required by the Engineer.
- Fuel and lubricants for operation of Contractor’s equipment.
- All safety precautions and measures for safeguarding labor as well as securing surrounding areas.
- Lighting of the work site.
- Maintenance or repair damaged infrastructure resulted by contractor’s activities

5. RIGHTS OF EMPLOYER
The following rights are reserved to the Employer/UNDP:

- To omit individual items mentioned in the Schedule of Prices if not required in the opinion of the Employer and/or to replace them should it be more advantageous to execute them in another way.
- To order execution of alternative or provisional items as if they were main items.
- To order execution of additional works as well as alternatives of works, always in conformity with the conditions outlined in the Contract.
Any order and/or delivery of material or equipment by the Contractor for performance of the works may only be based on instructions and/or approved execution drawings by the Employer/Engineer.

All equipment and materials for installation and finishing works to be incorporated in this contract shall prior to ordering and/or delivery by the Contractor, be approved by the Employer/Engineer both in respect of quality and type as well as of quantity.

6. SITE ACCESS AND STORAGE
The Tenderer shall visit all sites and ascertain the location of required access onto these sites and the location of allowance for complying with the requirements and for the reinstatement to original condition of all roads and areas used or disturbed by the Contractor to the satisfaction of the Engineer.

7. SITE INSTALLATION
All costs of labor, works, provisions, materials and equipment for Site Installations required by the Contractor and stipulated in the Tender Documents shall be included in the various unit prices of the Bill of Quantity. No extra payment will be allowed by the Employer for any of these activities.

9. DURATION
The total duration of the contract is Four (4) calendar months including weekends, holidays and official holidays.
# Removal and disposal of Rubble and Hazardous Materials Generated as a result of latest escalation in November 2012 in Gaza

**PAL 10-71488**

## Bill of Quantity (BOQ)

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Description</th>
<th>Unit</th>
<th>Qty.</th>
<th>Unit Price (US$)</th>
<th>Total (US$)</th>
</tr>
</thead>
</table>

**Notes:**

- Excavation of foundations is included in unit price.
- Back-filling for excavated areas are included in unit price and should be in layers. Suitable Clean Sand should be used for back-filling in layers (25cm max. each & compaction test 98%), selected from the approval excavated soil or imported. Prices shall includes supply, watering, compacting, transporting, testing and anywhere else, needed, all according to drawings, specifications, conditions and directed instructions by the Engineer or his representative.
- In all items, asbestos removal should be carried out according to methodology included in contract document and should be stored according to the instruction of the engineer in special place near UNDP crushing site.
- In all items for sorting and transporting, cutting steel bars is required from concrete elements. Concrete elements including steel should not exceed dimension of 50x50x50 cm
- Steel sheets, sheds and pipes should not exceed 1 meter length during transportation of these materials to the dump site.
- Unexploded Ordinance (UXOs) removal is included in unit price. Special handling and special transportation and disposal of such material should be in close coordination with UN-MAS and according to UNDP instructions.
- For high-raise buildings’ demolition, special machines and/or cranes should be used beside strong safety measures. No workers are allowed to ascend these buildings.
- The unit price includes supply the site with electrical source on daily basis during contract duration.

Contractor’s signature and stamp

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<tbody>
<tr>
<td>1</td>
<td>Demolishing and sorting of non-concrete materials such as wood, aluminum, steel, isolating materials, ceramic, asphalt, terrazzo, asbestos, UXOs, garbage, and others from existing damaged structures and rubble stockpiles. Sorting of these materials should be done according to the specifications and engineer's instruction and should be done for each material separately. Then collecting these materials and transporting each of them to the agreed dump sites. The price includes fees for municipal dump site where the garbage will be disposed.</td>
<td>Tone</td>
<td>10,000</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Payments for electrical fees and bills or generator’s fuel and oil are responsibility of the contractor.

- All quantities in the BOQ are an estimated quantities. UNDP is not responsible for the increase or decrease of any item in the BOQ as per the Information for Bidders even if this increase or decrease exceeds 25% of total quantities. Bidders have to make their own visits to all sites and verify the needs of each site then price accordingly. The site conditions are changing and this will be considered expected situation. In case of any changes in quantities (increase or decrease), same rates quoted will be utilized.
- A part of demolished concrete rubble will be transported to the fishermen port in Gaza, therefore, the unit price will include transporting this material from the sites to the port including reloading transported material.
- In case of existing UXOs, the contractor is responsible to coordinate with UNMAS team to support UXOs removal. No work will be performed in such sites with existing UXOs prior gaining UNMAS approval. All UXOs support is included in UNIT price.
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<tr>
<td>2</td>
<td>Demolishing, sorting and transporting of concrete materials from existing damaged buildings. The work includes excavation for existing foundations, cutting of steel bars, cutting of concrete elements into small parts (maximum 50x50x50 cm), demolishing of damaged buildings and walls, loading of concrete rubble, transporting to the dump site, up-loading concrete rubble, and using of special machines and equipments. The work includes also backfilling of areas excavated for foundation’s removal with approved materials according to the specifications and engineer’s instructions.</td>
<td>Tone</td>
<td>45,000</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| 3       | Preparation of crushing site  
Re-activation and maintenance of existing two weighting balances inside crushing site. The work includes calibration of balances, lubrication, cleaning concrete plates, supply and installing one computer and one printer according to attached specification, software for weighting balances, and electricity supply (temporary subscription for the duration of the contract from GEDECO, and stand-by generator 3KVA min.)  
The work includes Preparation of dumping and crushing site in “Gan Or” ex-settlement including grading and leveling of the upper area, watering and compaction the whole area, and opening closed roads for trucks  
All according to the specifications and supervision’s instructions. | item | 1    |                  |             |
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Summary:

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<tr>
<th>Item</th>
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<tbody>
<tr>
<td>1.</td>
<td>Total of Item #1</td>
<td></td>
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<tr>
<td>2.</td>
<td>Total of Item #2</td>
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<tr>
<td>3.</td>
<td>Total of Item #3</td>
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<tr>
<td></td>
<td>Total (US$)</td>
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<tr>
<td></td>
<td>VAT (0%)</td>
<td>0.00</td>
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<tr>
<td></td>
<td>Grand Total (US$)</td>
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Grand Total (in letters):-------------------------------------------------------------

Contractor’s Name:------------------------------------------------------------------

Signature and Stamp:-----------------------------------------------------------------

Date:-----------------------------------------------------------------------------