



**UNITED NATIONS DEVELOPMENT PROGRAMME**

**Rubble Removal from Gaza Strip**

**ITB-0000143614: Rubble Removal from Gaza Strip**

**Package 1 -Rubble Removal from Gaza Governorate**

## **Bill of Quantities**

| Item No. | Description  | Unit | Qty | Unit Price-US\$ | Total-US\$ |
|----------|--|------|-----|-----------------|------------|
|          | <b>Package # 1 - Rubble Removal from Gaza Governorate -</b>  |      |     |                 |            |
|          | <p>Notes:</p> <p>The unit rate shall include the following:</p> <ul style="list-style-type: none"> <li>- All safety measures for both site and labors according to contract document and make sure proper training for all staff, Insurance policy will cover all locations across the Gaza Strip and coverage will include all risks emerging from UXOs and other hazards connected with rubble removal. All according to supervisor Engineer approval.</li> <li>- All quantities are estimated according to the site measurements at the date of contract advertisement. In case of any changes in quantities (increase or decrease), same rates quoted will be utilized.</li> <li>- Supply the sites with internet, continuous electrical source on daily basis. Payments for electrical fees and/or generator's fuel and oil and maintenance are the responsibility of the contractor.</li> <li>- All works should be done according to specifications, contract conditions and instructions as directed by the UNDP Engineer.</li> <li>- Excavation of foundations and Back-filling for excavated areas that will be done in layers utilizing sieved excavated soil from the site.</li> <li>- Backfilling with clean Sand in layers (25cm max. each &amp; compaction test 98%) if needed to the level of Surrounding roads or sidewalks in full coordination with the UNDP engineer</li> <li>- Backfilling prices shall include supply, watering, compacting, transporting, testing and all required necessary works needed.</li> <li>- In all items, asbestos removal should be carried out according to the specifications included in the contract document and to be transferred to identified agreed upon locations by the UNDP Engineer.</li> <li>- 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. Reinforcing steel bars shall be disposed to places identified by UNDP engineer</li> <li>- Steel sheets, sheds and pipes should not exceed 1 meter length during transportation of these materials to the dumping site or locations identified by UNDP engineer.</li> <li>- Handling of UXOs removal which needs special dealing, special transportation and disposal of such material to be done in close coordination with UNMAS as well as local authorities.</li> <li>- For demolishing of high-rise buildings, a special machines and/or cranes should be used while taking strong safety measures and precautions including safety of pedestrians in full coordination with police. No workers are allowed to ascend these buildings, works must be according to the approved methodology and safety plans.</li> <li>- The contractor is requested to start working with locations prioritized by UNDP Engineer.</li> <li>- All trucks must have sealed cover applied during transportation.</li> <li>- The contractor has to submit the weight receipt of each truck from the dumping site, weighing costs is included in unit price</li> <li>- Any fees or costs at the dumping site (for disposal of non-concrete elements).</li> <li>- Temporary access road from the site to the main road.</li> <li>- Water tank to be used at the site for watering all demolishing activities, sorting and uploading to minimize dust</li> <li>- Supplying and installing temporary steel bars sieve of net opening 7cm at every site before starting any activity.</li> </ul> |      |     |                 |            |

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|---|---|------|-------|-----------------|------------|
| <b>Package # 1 - Rubble Removal from Gaza Governorate -</b> |   |      |       |                 |            |
| 1   | Demolishing and sorting of non-concrete materials such as wood, aluminum, steel, insulating materials, ceramic, asphalt, granite, clay tiles, asbestos, UXOs, garbage, false ceiling system including boards and other materials from existing damaged structures and rubble stockpiles. Sorting of these materials should be done according to the specifications, UNDP Engineer's instruction and should be done for each material separately. Then collecting these materials and transporting each material to the agreed locations/dumping sites. The price includes fees for municipal dumping site where the garbage will be disposed.   | ton  | 3000  |                 | -          |
| 2   | Demolishing, sorting and transporting of concrete materials from existing damaged structures, rubble stockpiles, water tanks etc. 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 dumping site and offloading concrete rubble.<br>The work includes also backfilling of areas excavated for foundations and to be filled with suitable sieved excavated soil from the site or with clean sand if needed according to the specifications and UNDP Engineer instructions.  | ton  | 30000 |                 | -          |
| 3   | Demolishing, sorting and transporting of concrete materials from existing damaged high-rise buildings (more than 12 meters high measured from ground level to the roof existing slab level, this will not include staircase height). 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, uploading concrete rubble, and using of special machines and equipment.<br>The work includes also backfilling of areas excavated for foundations with approved suitable sieved excavated soil from the site or with clean sand if needed according to the specifications and UNDP Engineer instructions. | ton  | 4000  |                 | -          |
| 4   | Ditto but to remove certain totally damaged floors on top of buildings including necessary extra propping needed.   | m2   | 1000  |                 | -          |
| 5   | Removal of rubble from UNRWA premises and schools one of them in Rafah. The works include sorting, cutting of steel bars, cutting of concrete elements into small parts (maximum 50x50x50 cm), loading of concrete rubble, transporting to the dumping site and uploading and offloading of concrete rubble.<br>All will be according to the specifications and UNDP Engineer instructions.   | ton  | 3000  |                 | -          |
| 6   | Provisional Item:<br>Stock piling of non-crushed concrete rubble inside dumping and crushing site. The works include preparation area for stockpiling, preparation of ramps and access roads for stockpiling and to streamline the traffic flow of the trucks. Stockpile height should be between 6-8 meters.   | hour | 100   |                 | -          |

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|---|---------------------------|-----------|
| Item No.  | Description               | Total-USD |
| 1   | Total of Item 1           | -         |
| 2   | Total of Item 2           | -         |
| 3   | Total of Item 3           | -         |
| 4   | Total of Item 4           | -         |
| 5   | Total of Item 5           | -         |
| 6   | Total of Item 6           | -         |
|   | Grand Total USD           | -         |
|   | Grand Total (in letters): |           |
|   | Contractor's Name:        |           |
|   | Signature and Stamp:      |           |
|   | Date:                     |           |