



Empowered lives.
Resilient nations.

UNITED NATIONS POPULATION FUND UNFPA

MINISTRY OF HEALTH, GAZA STRIP

**UNITED NATIONS DEVELOPMENT PROGRAMME
PROGRAMME OF ASSISTANCE TO THE PALESTINIAN PEOPLE**

برنامج الأمم المتحدة الإنمائي / برنامج مساعدة الشعب الفلسطيني

PRICED BILLS OF QUANTITIES FOR

**PAL 10-0079915 RENOVATION AND REHABILITATION WORKS FOR
MATERNITIES AND PHCC'S IN GAZA STRIP - PACKAGE# 2**

(I) NASER HOSPITAL – KHAN YOUNIS

(II) YAFA HOSPITAL - DEIR AL BALAH

(III) RAFAH CLINIC – RAFAH

(IV) KHERBET AL ADASS CLINIC – RAFAH



الشركة الفنية للإستشارات الهندسية

Technical Engineering Consulting Company

Gaza, Rimal, Al Rasheed St.

P.O. Box: 119, Gaza

Tel: 00970 8 2844933 / 2821614 Fax: 00970 8 2844166

E-Mail: tecc@teccgaza.com Web Site: www.teccgaza.com

22st November, 2011

BILLS OF QUANTITIES

(I) Naser Hospital - Khan Younis

(II) Yafa Hospital - Deir Al Balah

(III) Rafah Clinic – Rafah

(IV) Kherbet Al Adass Clinic - Rafah

PREAMBLES

1. Introduction

These Pricing Preambles set out the basis on which the Bills of Quantities have been prepared. Notwithstanding the provisions of these pricing preambles, the Contractor is reminded that the Tender Drawings and the Specifications form part of the Tender Documents and as such mutually refer to the intent of the Tender Documents.

Where a discrepancy occurs it is deemed that the Contractor has allowed for the intent of the Tender Documents unless this is clarified specifically at the time of Tender.

All works included in the Bills of Quantities shall be executed according to the drawings, specifications and engineer's instructions and approval.

2. Bills of Quantities

The Bills of Quantities define the items, which are measurable, and the units of measurement represent the entire work to be carried out in accordance with the Drawings and the Specifications. The measurement items in the Bills of Quantities are to be accepted as the full interpretation of the requirement of the Drawings and Specifications. "Descriptions" are given in outline only, the Contractor is to refer to the Specifications and Drawings and make himself familiar with the requirements.

No additional measured items will be allowed to interpret further the information so given. Other requirements which are not measurable in terms of quantity of labour and materials (e.g.. specialist supervision, shop drawings, bar bending schedules, as built drawings, samples, tests, mock-ups, maintenance, materials, guarantees and the like) and are not given as specific items in the Bills, are to be included in the prices of the measured items. The method of measurement for the Contract is thus established by the measured items and units of the measurement in the Bills of Quantities. No other measurement method shall be used to measure the executed works.

The same method of measurement and no other will be used in re-measuring the executed work.

3. Pricing

The Contractor shall satisfy himself as to the meaning of every item in the Bills of Quantities and the rates and prices inserted by him shall cover all Works required by the Contract Documents. All costs in connection with the proper and successful construction, completion and maintenance of the Works including, but not limited to, completion of all temporary works, furnishing all materials, equipment, supply and appurtenance, providing all construction plants, equipment, tools, sampling, testing, profits, overheads, charges, provision of guarantees, performing all necessary labour and supervision and other cost of whatsoever nature necessary to fully complete the works, shall be included in the unit and lump sum prices called for in the bills of Quantities. All works not specifically set forth as a pay item in the Bills of Quantities shall be considered as subsidiary obligation of the Contractor and all costs in connection therewith shall be included in the Priced Tender. Prices shall be deemed to include for all straight ranking and circular cutting and consequent waste. **VAT Not included in prices.**

The Contractor shall maintain and keep all item rates and prices fixed through out the execution of the contract. No extra rates shall be allowed for the changes of specified materials, if required by the Contractor and approved by the Engineer, due to the unavailability of the material or to improve the quality of the same.

4. Quantities

All estimated quantities stipulated in the Bills of Quantities or other Tender Documents are approximate and are to be used only;

- a) as a basis for estimating the probable cost of the Work and
- b) for the purpose of comparing the bids submitted for the Work.

The actual amount of work done under each unit price items may differ from the estimated quantities. The basis of payment for work will be the actual quantities. The Contractor agrees that he will make no claim for damages anticipated profits or otherwise on account of any difference between the amounts of work actually executed and the estimated amount.

5. Items in Bills of Quantities

Such items are the subject of re-measurement of completion in accordance with Clause 12.1 of the General Conditions of Contract. Quantities given in the Bills are based upon measurement from the Contract Drawings and Specifications.

6. Measurement

Metric measurements and weights have been used throughout the Bills of Quantities. Work is measured net as fixed in position and each measurement is taken to the nearest centimetre. Fractions of a centimetre less than half are disregarded and all other fractions are regarded as whole centimetres. This principle shall not apply to dimensions stated in item descriptions. Where minimum deductions of voids are dealt with they refer only to openings or voids, which are wholly within the boundaries of measured areas. Openings or voids that are at the boundaries of measured areas are always the subject of deduction irrespective of size.

Rates and Prices shall be clearly spelled out alphabetically and numerically.

No items are to be measured twice under separate headings.

7. Descriptions

The order of stating dimensions in descriptions is generally in the sequence of Length, Width and Height. Unless otherwise stated in the Bills of Quantities or herein, all measured items are deemed to include supply and fix in place complete, thus all measured items shall include all incidentals to complete the work in a proper manner such as but not limited to the following:

- Labour.
- Materials, including all cost in connection herewith (e.g. conveyance, delivery, unloading, storing, and handling, lowering into position and the like).
- Customs and import duties as applicable, insurance, levies and the like.
- All shop treatment of materials (e.g. Preservation of timbers, galvanizing, priming, chrome plating, stove enamelling, anodizing and the like, pipe wrapping, coatings, etc.).
- Fitting and fixing materials in position includes all necessary fixing devices and materials.
- Commissioning & use of plant.
- Disposal of waste of material.
- Square, raking or curved cutting.
- Work in volumes, areas and length of any size, No separate items being measured for isolated work or work in small quantities, short length, narrow widths, etc.
- Establishment charges, on-costs, overhead charge profits (The Value Added Tax – VAT not included).
- All obligations and liabilities in complying with the Bidding Documents for the Contract and not specifically referred to in the following items.
- Provision maintenance and removal of all temporary works. Temporary works to include traffic diversions and all necessary signing and lighting required for the diversion and protection of traffic. It is to be noted that all traffic diversions and traffic control devices used in diversions should comply with Ministry of Transport requirements. All traffic diversions shall be asphalt surfaced. All diversion proposals will require the approval of the Project manager, Ministry of Transport and the Traffic Police.
- An approved location, a furnished and equipped (including consumable office supplies and surveying equipment) site office for the supervising engineer and his staff. The office shall be provided with all service connections and shall be maintained throughout the currency of the contract, including all servicing and watching. The office shall be removed at the completion of the Contract and the site made good.
- Assistance to the Engineer as specified in the technical specifications.
- The specified 3 project's sign boards.
- The specified computer, printer and photocopier.
- Daily & monthly progress reports (4 copies each).
- Sets of progress photographs as specified.
- The mobilization, remobilization where necessary, maintenance on site and demobilization of all plant and equipment required completing the Works.
- Contractor's site supervision and administration staff.
- The provision of a Performance Security in accordance with the Contract Data and Conditions of Contract.
- The provision of all insurance in accordance with the Contract Data and Conditions of Contract.

- Provision maintenance and demobilization of the Contractor's site establishment and making good the site.
- The location and protection of all existing services and all co-ordination with the relevant authorities.
- The Contractor's Head Office overheads and running costs.

Junctions between straight, raking and curved work are in all cases included with the work in which they occur.

Certain items are referenced directly to detail drawings to eliminate detailed description. All such reference includes all work to execute the detail.

Where Specification clauses and / or detail drawing numbers are referred to in a description such information is provided for convenience only and the Contractor is to Note that all other relevant Specification requirements and relevant drawings and details are to be taken into account.

8. Abbreviations

The following abbreviations are used throughout the Bills of Quantities.

mm	Millimetre
cm	Centimetre
R.M	Linear meter
M.S.	Square meter
M.C	Cubic Meter
L.S.	Lump Sum
No.	Number
Kg.	Kilogram
Ref.	Reference

9. Definitions

The terms "include", "is included", "including" and similar, are used herein to indicate that the items in question are Not measurable as separate items and are Not specifically mentioned in the descriptions but the costs of which are to be included in the measured items.

Such references are not comprehensive and are for convenience only and the Contractor is to Note that all-relevant requirement of the Specifications and Drawings are to be taken into account in the measured items.

The word "Site" used in the Bills of Quantities means the whole of the areas within the Contract limit lies for this Contract as shown on the Contract Drawings. With reference to the clearance of debris, rubbish, trash, excavated material and the like the definition is extended to include the whole of the site.

The word "ditto" used in the Bills of Quantities means the repetition of all or part of the preceding item as applicable to complete the sense of the item.

The word "extra" used in the Bills of Quantities means the additional cost of the item of work in question over and above the rate of the item as stated in the bills of quantities.

10. Protection

All rates in the Bills of Quantities shall include for protection as required and deemed necessary.

11. Shop Drawings / co-ordinated drawings.

All rates shall include where required for producing shop drawings & co-ordinated drawings and supporting calculations as requested by the Engineer.

12. As Built Drawings

All rates shall include for producing CD in AutoCAD transparency and four (4) paper copies of all as-built drawings and supporting calculations to the approval of the Engineer.

13. Cutting and Patching

The Contractor shall be responsible for all cutting, patching and making good for all trades for all work and his prices will be deemed to include for all such cutting and patching and making good:

1. Setting out of the buildings, yards, car parks, guardroom, retaining walls & boundaries are to be done by licensed authorized surveyor at the contractor's expense and responsibility.
2. Rates and Prices shall be clearly spelled out alphabetically and numerically.
3. No item is to be measured twice under separate headings.

14. Excavation

(A) Measurements

1. Excavation for foundation trenches. Etc. shall be the actual dimensions shown on Drawings including blinding area, and to be measured from Natural Ground Level or Reduced Level (which is lowermost), i.e.
 - From Reduced level when R. L. is lower than N. G. L.
 - From N. G. L. when N. G. L. is lower than the Reduced Level.
2. Allowance for working space is not applicable, unless it is clearly specified in the Special Conditions.
3. Excavation for foundation of retaining walls is to be measured from Lower Reduced level, or from lower Natural Ground level (as stated in Item 1 above).
4. Trench excavation and back filling for drain and water pipes and electricity cables and excavating for manholes and percolation pits is included in the items of pipe work, cabling, manholes and percolation pits and will not be measured separately.
5. Price to include removal of site obstacles, rocks, trees...etc. and removal of all debris from site according to the instructions of the Engineer and to his satisfaction. Price also to include maintaining all trees that are not obstructing the buildings, boundary walls, courts and roads. Any cutting and removal of trees needs the confirmation of the Engineer.
6. Each layer of back filling shall be tested separately, on the contractor's expense, prior to applying the next layer.
7. Co-ordination with all local authorities to facilitate the works, removal of obstacles or for diversion of roads, Services, etc. is the contractor's responsibility and are deemed to be included in his rates.
8. Excavated soil shall be classified and retained, to back fill with suitable soil and to place agricultural soil where needed as shown in the drawings and as instructed by the Engineer. The extra and unsuitable soil shall be removed, on the contractor's expense with No extra cost.
9. Prior to commencement of site levelling or any excavation, the Contractor shall obtain Engineer's written approval on the survey contour map grid of 5m x 5m, checked jointly by the contractor and the Engineer, the excavation profiles and sections showing all levels and dimensions, and the calculations of excavation quantities.
10. Excavation shall be in Cubic Volume, unless otherwise stated in BOQ. The net measurements of the excavated elements as shown in the drawings, No allowance shall be made for increase in bulk after excavation. The price will include all backfilling works in the whole site to the levels shown in the drawings and according to the Engineer's instructions. Consequently no measurements will be taken for any kind of backfilling. No allowance will be made for working space.
11. Hard-core beds shall be measured superficially, over consolidated depth including finishing, to a maximum depth of 15cm or as stated clearly in the Bills of Quantities. Filling required below this 15cm. depth is intended to be of suitable materials from the excavations and no extra will be paid for hard-core used in lieu thereof. No extra rate shall be paid for Levelling, ramming and filling of voids under the hard core.
12. Dumping of all residual materials shall be coordinated with MOH, Local Community and Council Authority for a dumping permission and if these materials are required by MOH or Local representative it must be handled to them properly with complete cooperation.

(B) Rates

1. Rates for excavation shall include for:
 - a) Removal of all site obstacles and clearing the site of all rubbish, debris, shrubs, trees, bushes, plants, fence and the like including grubbing up roots and foundations prior to the commencement of the Works.
 - b) Excavation to any depth, in any shape, in any type of soil, below water table level and keeping excavation free of water.
 - c) Excavation in any material whatsoever found, including rock.

- d) Excavating circular on plan.
 - e) Allowance for working space.
 - f) Excavating below water-table level.
 - g) Keeping excavations clear of water.
 - h) Levelling, ramming, trimming and grading bottoms of excavations in rock.
 - i) Planking and strutting.
 - j) Cost of lab tests of works and materials.
 - k) Selecting Suitable material from the excavations and returning, filling watering and ramming in layers around foundations and to underside of hard-core beds including all multiple handling and transport about the site.
2. Rates for hard-core beds shall include for:
- (a) Trimming and levelling ground under.
 - (b) Watering, ramming and consolidation.
 - (c) Loss of bulk in consolidation.
 - (d) Finishing top surface to receive concrete, paving and the like.

15. Concrete Work

(A) Measurements

1. Concrete works shall be measured net as per Drawings.
2. Each item of concrete works shall be measured in the unit described in the Bills of Quantities.
3. All recesses, openings or any other space not actually filled with concrete shall be deducted in calculating the volume or the area for payment.
4. Any extra concrete which was cast due to the Contractor's negligence and is not marked specifically on the Drawings shall not be measured for payment.
5. Suspended concrete slabs shall be measured superficially.
6. Drop beams are included in the measurement of the slab.
7. The height of columns shall be measured excluding the depth of beams, slabs and the like.
8. Prices for reinforced concrete elements shall include reinforcement.
9. Prices for ribbed slabs shall include reinforcement and hollow blocks and no separate item for blocks will be provided.
10. The used concrete class is 300 kg/cm² or 250 kg/cm² as mentioned in the drawings and BoQ.
11. The used concrete class for blinding is 200 kg/cm² as mentioned in the drawings and BoQ.

(B) Rates

Rates for concrete works shall include for:

1. Labour
2. Supply and storage of cement,
3. Supply and storage of aggregates and water,
4. Mixing and placing in position,
5. Packing and tamping around reinforcement,
6. Vibrating, compacting of concrete, additives and curing,
7. Grading, tamping and trowelling,
8. Installing of formwork, shutters and supports and dismantling the same.
9. Supplying reinforcement and storing on site including cutting, bending and fixing in position and providing all tying wire, spacers, shop drawings and testing,
10. Finish to exposed faces,
11. Work of any cross-sectional area,
12. Work at any height,
13. Curved work,
14. Forming mortices and grouting in,
15. Forming grooves, throats, holes, chases, rebates, chamfers, splayed angles, mouldings and the like,
16. Casting in or cutting and pinning plugs, holdfasts, brackets, and the like.
17. Hoisting to any height and bedding, jointing and pointing,
18. Wall ties.
19. Hollow blocks for ribbed slabs including supply, storage, laying and arranging.

20. Protective coating of hot bitumen in not less than two coats and not less than 2 mm in thickness to surfaces of reinforced concrete occurring under the ground level including necessary undercoating.
21. Taking samples, performing any laboratory tests that may be required by the Engineer and providing certificates of test results.

16. Block works

(A) Measurements

1. Block work shall be measured net in squared meters. No deductions will be made for voids or openings of less than 0.1 square meters in area.
2. Thickness given refers to the thickness shown on the drawings and no allowance will be made for any additional thickness due to uneven or bad workmanship.
3. Hollow block work compression strength test after 28 days = 40 kg/cm².
4. Solid block work compression strength test after 28 days = 70 kg/cm².
5. For the main building, the reinforced concrete lintels, sills and beams over the length of the block walls are measured separately.
6. For toilet block, the reinforced concrete lintels, sills and beams over the length of the block walls are measured separately.

(B) Rates

Rates for block work shall include for:

1. Labour
2. Supply and storage of cement,
3. Supply and storage of aggregates, water and other materials,
4. Manufacture, curing and supply of blocks,
5. Laying blocks including horizontal and vertical mortar joints,
6. Using closed ends blocks as required by the Engineer at all ends, openings, services locations etc.
7. Work of all classifications in any location,
8. Finishing fair and pointing to exposed faces,
9. Rough and fair cutting,
10. Cutting or leaving holes, chases, grooves, mortices, sinkings and the like and making good, -
11. Cutting and pinning or building in ends of lintels, steps, timbers, rails, brackets, steel sections and the like, and making good,
12. Concrete filling and reinforcing rods to cavities at quoins and door and window openings,
13. Cutting and bonding at angles, intersections and the like.

17. Stone works

(A) Measurements

1. Stone works shall be measured net in squared meters including opening which are less than 0.25 square meters in area.
2. Rubble stone walls shall be measured by volume.
3. Stone facing for drop beams of the suspended slabs will be measured same as the item of stone walls unless otherwise specified in the Bills of quantities.

(B) Rates

Rates for stonework shall include for:

1. Labour
2. Supply and storage of cement,
3. Supply and storage of aggregates, water and other materials,
4. Shaping of the apparent faces of stones as per Drawings and the Instructions of the Engineer.
5. All special pieces such as corners, jambs, pieces around windows and doors and the like.
6. Fabricated wire mesh, dowels, hangers and all tying and fixing tools for stone cladding works.
7. Laying stones including coursing, bonding, and all mortar joints.
8. Works of all classifications in any location.
9. Face or surface finishing including all openings, returns, reveals and the like.
10. Rough and fair cutting,

11. Tying to backing material.
12. Concrete and block backing where included with stonework item. Shutters, spacers, shop drawings and testing,
13. Cutting or leaving holes, chases, grooves, mortises, sinking and the like, and making good
14. Cutting and pinning or building in ends of lintels, steps, timbers, rails, brackets, steel sections and the like, and making good.
15. Pointing including cleaning of stones, scaffolding and dismantling the same and all incidentals.
16. Lintels and other reinforced concrete elements including reinforcement except those elements specified in separate items in the Bills of Quantities.

18. Plastering

A) Measurements

Plastering to all areas shall be measured net in squared meters including openings which are less than 0.25 square meters in area.

B) Rates

The price shall include for running rules:

1. Supply and storage of cement,
2. Supply and storage of aggregates and water,
3. Clearing of walls and other elements to be plastered and spraying with water,
4. Installation of scaffolding and dismantling the same,
5. Mixing and applying plastering to any surface, location, area, width and height,
6. Plastering to jambs and reveals of openings, side of columns, window sills...etc.
7. All narrow widths for taking out joints on block walls or backing concrete face for key, for making good to frames around pipes and other fittings,
8. Making good around steel sections, pipes, tubes, bars, brackets, outlets and the like,
9. Curing,
10. Expanded metal lath, corner mesh, angle beads at all corners and plaster stops at openings, edges, expansion joints, sills,...etc. and where ever needed and according to the instructions of the Engineer,
11. Labour and all incidentals required as specified and/or detailed in Specifications and Drawings.
12. The one meter run of the expansion joint inserted in the bills of quantities is considered as a complete expansion joint from both sides and will not be calculated twice.

19. Carpentry and Joinery Work

(A) Measurements

1. Sizes of timber given in the Bills of Quantities are finished sizes and shall be as per Drawings,
2. Sizes of doors and other items mentioned in the Bills of Quantities shall allow for tolerance to suit the structural openings as per Drawings,
3. Wooden doors and pair of doors shall be measured in number or in squared meters for the structural opening or as mentioned otherwise in the Bills of Quantities,
4. Pre fabricated Magnetic chalk board shall be measured in number.
5. Wall protection wooden rails shall be measured in linear meter,
6. Cloth hangers and hanger wooden base shall be measured in number or in linear meter as stated in the Bills of Quantities.

(B) Rates

Rates for carpentry and joinery work shall include for:

1. Labour,
2. Shop drawings,
3. Any length of timber,
4. Joints in the running length of timber,
5. Raking, curved or circular work and labours,
6. Frames, architrave, chalk holders and other holders and kick plates,
7. Allowance for plastering and tiling and the like,
8. Forming holes, angles, ends, mitres, rebates, splayed edges, grooves, chamfers, scribed edges, rounded edges, rounded corners, notches, sinkings, fitted ends, far ends and the like,

9. Cutting and fitting around obstructions,
10. Forming mouldings,
11. Nosing, bed moulds, margins, and the like,
12. Facing and edging to blackboard, cupboards and leaves.
13. Bedding and painting,
14. Grounds, blockings and backings,
15. Plugging concrete, block work, and stonework, and making good,
16. Ironmongery including cylindrical locks, handles, stoppers, screws, temporarily fixing, re-fixing, oiling and adjusting,
17. Providing two keys for each lock including tagging,
18. Hardware including nails, screws, dowels, cramps and the like,
19. Steel legs, brackets, bearers and other supports including painting,
20. Glass and glazing including cutting to size and putty,
21. Fly screening including cutting to size,
22. Preparing surfaces to receive finishes,
23. Painting, varnishing, polishing, oiling, and the like, to any area or width in any location including work in multi colours and cutting in edges.

20. Metal (Steel and Aluminium) Works

(A) Measurements

Metal works shall be measured in number or in squared meters as stated in the Bills of Quantities.

(B) Rates

Rates for metalwork shall include for:

1. Labour,
2. Preparing shop drawings,
3. Cutting,
4. Assembling,
5. Welding grinding and joining,
6. Drilling, countersinking, screwing, bolting and riveting,
7. Bedding and painting,
8. Frames, including galvanized steel frames for Aluminium windows and architrave,
9. Lugs, plugs, holdfasts and the like,
10. Gaskets, sashes, double weather strips and external and internal silicon filling around frames,
11. Ironmongery including locks, stoppers, handles, temporarily fixing, re-fixing, oiling and adjusting,
12. Providing two keys for each lock and padlock including tagging,
13. Hardware including cramps, dowels and the like,
14. Glass and glazing including cutting to size, putty and rubber,
15. Preparing surfaces for and painting one coat of primer before fixing,
16. Sealing,
17. Painting to any area or width in any location including work in multi colours and cutting in edges.
18. All other accessories and incidentals required to execute the work.

21. Tiling, Flooring and Marble

(A) Measurements

1. All tiling works (terrazzo, ceramics, marble) shall be measured net in squared meters and the rate shall include skirting. Skirting will not be included in the measurements.
2. Marble works for steps and treads of stairs shall be measured in linear meter. The tread and the riser shall be measured as a single unit,
3. Marble works for sills for windows and other openings shall be measured in linear meter or in squared meter as stated in the Bills of Quantities,
4. Marble works for urinals shall be measured in number,
5. Parapet coping shall be measured in linear meter,
6. Marble works for stair flight's skirting shall be included in (2) above.

(B) Rates

(1) Rates for finishes shall include for:

1. Supply and storage of cement,
2. Supply and storage of aggregates and water,
3. Mixing,
4. Hacking concrete, applying cement slurry or raking out joints of block work to form key,
5. Application to any surface,
6. Any width or area,
7. Any location and any height,
8. Beds, bedding and backing,
9. Finish to surface,
10. Finish to edges and arises,
11. Grouting and pointing,
12. Making good around steel sections, pipes, tubes, bars, brackets, outlets and the like,
13. Finish to falls, cross falls and currents,
14. Forming bays including joints,
15. Treating surfaces with dust proofer, hardener and the like,
16. Ends, intersections, angles, ramps, and the like on skirting,
17. Forming rounded top edges and coves at bottom on skirting,
18. Curing.

(2) Rates for floor tiling: In addition to the related items stated above the rates for floor tiling shall also include:

1. Supply, store and cure of tiles,
2. Bedding and lining in cement and sand mortar
3. Sand or concrete filling as required by the Specifications,
4. Pointing and grouting with white cement,
5. Forming holes,
6. Forming grooves.
7. On site mechanical grinding and polishing.

(3) Rates for wall tiling: In addition to the related items stated above the rates for wall tiling shall also include:

1. Supply, store and cure of tiles
2. Plastering,
3. Cutting and patching around the services and other openings,
4. Mortar,
5. Purpose made tiles including rounded edge tiles and bull nosed tiles.
6. Grouting, grinding, and cleaning.

22. Roof Finishes:**(A) Measurements**

1. All finishes shall be measured superficially net unless otherwise stated clearly.
2. All finishes, except triangular shaped fillets and cement and sand lining to gutters, shall be measured superficially.
3. Rates for the triangular shaped fillets, cement and sand lining to gutters shall be included in the rate of the finished work.

(B) Rates

(1) Rates for cement and sand work shall include for:

1. Supply and storage of cement.
2. Supply and storage of aggregates and water,
3. Mixing,
4. Hacking concrete, applying cement slurry or raking out joints of block work to form key,
5. Application to any surface,
6. Any width or area,
7. Finish to surface,

8. Finish to falls, cross falls and currents,
9. Forming bays including joints,
10. Finish to edges and arises,
11. Making good around steel sections, pipes, tubes, bars, brackets, outlets, and the like,
12. Ends, intersections, ramps, and the like, on fillets,

(2) Rates for waterproofing shall include for:

1. Preparation of surface,
2. Any area or width,
3. Cutting in edges.
4. Over laps, priming and treatment at the corners and floor drains.
5. Dressing over parapets and stub columns including forming groove to receive edge of plasticised bitumen membrane and sealing with elastic sealer.

(3) Rates for roof sheets shall include for:

1. Side and end laps, Fittings including bolts, hook bolts, screws and washers,
2. Sheets of any width or length.

23. Plumbing Work

(A) Measurements

1. All plumbing work, except rainwater pipes and water supply pipe work in water points shall be measured by number.
2. Rainwater pipes shall be measured run over fittings.
3. Pipe work in frames to shading sheds shall be measured run over fittings.
4. Water supply pipe works, water distribution pipe works shall be measured each as lump sum.

(B) Rates

(1) Rates generally shall include for:

1. Shop drawings,
2. Cutting and forming all chases, recesses, holes, and the like,
3. Pipe sleeves,
4. Building of concrete and/or brick ducts in floors, walls ...etc.,
5. Excavation, forming of trenches for services, concreting, bedding and back filling and ramming after laying,
6. Fixing brackets, clips, holder bats, hangers, and the like,
7. Temporary and final fixing,
8. Nails, screws, bolts, nuts, washers, holes, plugs, sleeves and the like,
9. Building in or cutting and pinning,
10. Testing and drawings,
11. Painting,
12. All work of other trades in connection with plumbing work including all making good.

(2) Rates for building of manholes and pits shall include excavation, concrete, benching, plastering, backfilling and cover as per Drawings and Specifications,

(3) Rates for sanitary fittings, isolated taps and gullies shall also include for:

1. All pipe work in connection therewith and connections thereto including connection to the nearest manhole or gully and to the cold water storage tank.

(4) Rates for pipe work including pipe work in frames to shading sheds shall include for:

1. Joints in the running length,
2. Nipples, connections, sockets, ferrules, couplings, back nuts, unions, and the like,
3. Bends, elbows, tees, reducers, access doors, cleaning eyes, blank caps, stop valves, and the like,
4. Welded joints and connections including grinding,
5. Lagging and wrapping,
6. Excavation, bedding and backfilling.

24. Electrical Work

(A) Measurements

1. All electrical work shall be measured by number, unless otherwise stated.

(B) Rates

- (1) Rates generally shall include for:

1. Shop Drawings
2. Cutting or forming all chases, recesses, holes, and the like,
3. Conduit sleeves,
4. Fixing brackets, clips, holder bats, hangers and the like,
5. Temporary and final fixing,
6. Excavation for and lying of cable carrying pipes, bedding, concreting, backfilling and compacting,
7. Building of manholes, pits, etc.,
8. Building of concrete and/or brick ducts,
9. Nails, screws, bolts, nuts, washers, holes, plugs, and the like,
10. Building in or cutting and pinning,
11. Testing and drawings,
12. Painting,
13. Excavation, forming of trenches, bedding, backfilling and compacting,
14. All work of other trades in connection with electrical work including all making good.

- (2) Rates for fittings, switches, and fuse boards shall include for:

1. Conduit and wiring to and between fittings, switches, and fuse boards (except connections to supply company's main) including all fittings, boxes, connectors and the like and making connections,
2. Lamps, bulbs, tubes and the like,
3. Plates and covers.

- (3) The rate for the connection to the supply company's main shall include for:

1. All the supply company's charges for making the connection to the main,
2. Wiring or cabling between the supply company's main and the distribution board,
3. Underground conduit and junction boxes including excavation, bedding and backfilling,
4. Poles including insulators.

25. Glazing Work**(A) Measurements**

1. Glass and glazing work is included within the items in which the glass is fixed and will not be measured separately.

(B) Rates

Rates for glass and glazing work shall include for:

1. Any size, shape and area,
2. Glazing to wood or metal,
3. Bedding edges,
4. Labours to edges,
5. Drilling holes and grinding

26. Paintings and Decorating**(A) Measurements**

1. Painting and decorating to walls, ceilings and the like shall be measured net in squared meters,
2. Painting and decorating to all other surfaces, items and things are included in the items of surfaces, items and things, will not be measured separately.

(B) Rates

Rates for painting and decorating work shall include for:

1. Preparation of surface including puttying, sealing and priming,
2. Any area or width,

3. Any location,
4. Work in multi colours,
5. Cutting in edges,
6. Any taping and covering to protect areas and others.

27. Asphalt Works

A) Measurement:

1. Base course works shall be measured net in squared meter or in tons as specified in the Bills of Quantities in case of base course works are not included in the asphalt works.
2. Asphalt works shall be measured net in squared meter.

B) Rates

Rates for base course and asphalt works shall include for:

1. Labour,
2. Supply and storage of base course materials,
3. Spreading, levelling, watering and compacting the base course to receive asphalt,
4. Supply and apply asphalt concrete,
5. Spreading by using Finisher,
6. Compacting,
7. Trimming, cutting and making good around edges, openings, corners and trenches.

28) Kerbstone Works

A) Measurements:

Kerbstone works shall be measured in linear meter.

B) Rates

1. Labour.
2. Supply and storage of aggregates. Cement and water.
3. Supply and storage of kerbstone.
4. Excavation in all kinds of soil including rocks, concrete and asphalt.
5. Supply and cast of blinding concrete as per Specifications.
6. Struts.
7. Laying kerbstone including mortar.
8. Backfilling, levelling, watering and compacting.
9. Pointing and grouting.
10. Lowering curbs as entrance and ramps and where requested by the Engineer.

29- Demolishing and Alterations

(A) Measurements

1. Unless otherwise stated, old materials shall be understood to become the property of the contractor and shall be cleared away. Old materials required to remain the property of the Ministry of Health (MOH) shall be so described; setting aside and storing of such materials shall be given in the description.
2. Removing individual fittings, fixtures, engineering installations or the like from an existing structure shall be given as an item, stating the size, or enumerated.
3. Those required to be set aside for reaffixing shall be so described.
4. Removing finishing or coverings to existing structures shall be given as Items, indicating the quantity, or in square meters. Stating the nature of the finishing or coverings.
5. Demolishing individual structure or part thereof, shall be given as an item, stating the dimensions. Alternatively, demolishing all structures on site may be given one item.
6. Cutting opening in existing structures and alterations to existing structures shall be given either as an item or a number. Stating the size of the opening and the type and thickness of the existing structure.
7. Making good all work damaged shall be understood to be included. The provision of new lintels shall be included in the description of such work. The provision of temporary screens and

coverings to protect the existing structure shall be understood to be included in the demolishing and alteration items.

8. Shoring incidental to demolishing and alterations, together with clearing away and making good all work damaged shall be understood to be included. Shoring, other than that incidental to demolishing and alterations. Shall be given as an item stating the location; clearing away and making good all work damaged shall be understood to be included.

(B) Rates

Rates shall include for:

1. Labour, materials and plant.
2. Temporary propping or shoring incidental to the Work.
3. Protection of adjacent buildings.
4. Temporary screens and protection of remaining finishing and structures.
5. Clearing all debris from site.
6. Making good finishes and structures.
7. Disposal of old materials by Contractor unless otherwise stated in the description.
8. Removal of old materials to MOH store where these are to be retained by the MOH.

30. Medical Gas Work

(A) Measurements

1. Medical copper pipes shall be measured by run meter.
2. Medical copper valves shall be measured by number.
3. All fittings, ends capped shall be measured run over pipes.
4. Outlet point shall be measured by number.
5. Equipments shall be measured by number

(B) Rates

(1) Rates generally shall include for:

1. Shop drawings,
2. Cutting and forming all chases, recesses, holes, and the like,
3. Pipe sleeves,
4. Building of concrete and/or brick ducts in floors, walls ...etc.,
5. Fixing brackets, clips, holder bats, hangers, and the like,
6. Temporary and final fixing,
7. Nails, screws, bolts, nuts, washers, holes, plugs, sleeves and the like,
8. Building in or cutting and pinning,
9. Testing and drawings,
10. Painting,
11. All work of other trades in connection with plumbing work including all making good.

31. Air condition Work

(A) Measurements

1. All air condition works work shall be measured by number, unless otherwise stated.

(B) Rates

(1) Rates generally shall include for:

2. Shop Drawings
3. Cutting or forming all chases, recesses, holes, and the like,
4. Conduit sleeves,
5. Fixing brackets, clips, holder bats, hangers and the like,
6. Temporary and final fixing,
7. Excavation for and lying of cable carrying pipes, bedding, concreting, backfilling and compacting,
8. Building of manholes, pits, etc.,
9. Building of concrete and/or brick ducts,
10. Nails, screws, bolts, nuts, washers, holes, plugs, and the like,

11. Building in or cutting and pinning,
12. Testing and drawings,
13. Painting,
14. Excavation, forming of trenches, bedding, backfilling and compacting,
15. All work of other trades in connection with electrical work including all making good.

(I) Naser Hospital - Khan Younis
Bill No. (1)
Demolishing Works
Page No. "1"

Item	Description	Unit	Qty.	Unit Rate \$	Total Amount \$
	All activities must be performed as per specifications, drawings and the engineer's instructions.				
1.	Demolishing safely the existing wall as per the engineer's instructions & removing of all debris from site to approved places.	M ²	120		
2.	Carefully dismantle and handle to MoH the existing floor tiles & wall tiles and removing of all debris from site to approved places.	M ²	300		
3.	Carefully dismantle and handle to MoH the existing doors 160cm and removing of all debris from site to approved places.	No.	6		
Total					

(I) Naser Hospital - Khan Younis**Bill No. (I)****Demolishing Works****Summary**

Total of Page No. "1" of Demolishing Works \$ _____

**Total of Demolishing Works (Bill No. "I")
Carried to General Summary of (I)** \$ _____

(I) Naser Hospital - Khan Younis
Bill No. (2)
Concrete & Block Works
Page No. "1"

Item	Description	Unit	Qty.	Unit Rate \$	Total Amount \$
	All activities must be performed as per specifications, drawings and the engineer's instructions.				
1.	Supply & cast ready mix concrete (250kg/cm ²) for reinforced concrete lintel and decorative elements. (4T12& stirrup T8@20cm).	M ³	1		
2.	Supply & build hollow block walling 20cm thick including the supplying of all materials (block size 20 x 20 x 40cm).	M ²	50		
Total					

(I) Naser Hospital - Khan Younis**Bill No. (2)****Concrete & Block Works****Summary****Total of Page No. "1" of Concrete & Block Works** \$ _____**Total of Concrete & Block Works (Bill No. "2")**
Carried to General Summary of (I) \$ _____

(I) Naser Hospital - Khan Younis
Bill No. (3)
Finishing Works
Page No. 1

Item	Description	Unit	Qty	Unit Rate (\$)	Total Amount (\$)
	All activities must be performed as per specifications, drawings and the engineer's instructions.				
1.	Supply & execute internal plastering 13mm thick to walls, soffits & columns including galvanized metal lath angles for columns, edges & chicken wire at the intersection of concrete & block works, pipes & cement rendering.	M ²	100		
2.	Supply and paint one primer and minimum two coats of emulsion paint (Supercryle) internal walls and drop beams .The price include removing the existing paints with sand plus machine and repair the plastering (Tambour).	M ²	100		
3.	Supply, paint and apply two coats of putty, one undercoat primer and two coats of colored oil paint for the walls up to lintel level .The price include removing the existing paints with sand plus machine and repair the plastering (Tambour).	M ²	50		
4.	Supply and install 45cm x 45cm colour porcelain wall tiles (Spanish grade A) 6mm thick laid on 2cm mortar (1:3).	M ²	500		
5.	Supply and install 45cm x 45cm colour porcelain floor tiles (Spanish grade A) 8mm thick laid on 2cm mortar (1:3) + 5cm sand & cement.	M ²	300		
6.	Supply and install protection stainless steel angle with more than 1mm thick, fixing for the walls corridors corners.	RM	20		
7.	Supply and install Granite counter for security room, 40cm wide, 90cm height and 300cm length, and the counter will be L- shape, tiger table, marble 3cm shelves and divider. The price includes all the needed materials to complete the job.	Unit	1		
8.	Ditto, but for nursing room, 60cm wide, 90cm height and 600cm length.	Unit	1		
9.	Ditto, but for first and second stage room, 60cm wide, 90cm height and 200cm length.	Unit	2		
Total					

(I) Naser Hospital - Khan Younis**Bill No. (3)****Finishing Works****Summary****Total of Page No. "1" of Finishing Works**

\$ _____

**Total of Finishing Works (Bill No. "3")
Carried to General Summary of (I)**

\$ _____

(I) Naser Hospital - Khan Younis
Bill No. (4)
Carpentry & Joinery Works
Page No. 1

Item	Description	Unit	Qty	Unit Rate (\$)	Total Amount (\$)
	All activities must be performed as per specifications, drawings and the engineer's instructions.				
1.	Supply, fix & paint two leave flushed wooden door type D1, overall size 160 x 220cm with galvanized steel frame and double side protection stainless steel sheets with more than 1mm thick , 100cm height.	No.	4		
2.	Ditto, but for two leave type D2, overall size 120 x 220cm.	No.	4		
3.	Ditto, but for one leave type D3, overall size 100 x 220cm.	No.	2		
4.	Supply and fix soft wood rubbing rails size 200mm x 20mm with round edges, smooth surface , apply two coats of sanding sealer, sand lightly and apply two coats of varnish, drill and fix to concrete or block walls using expansion steel bolts.	RM	50		
5.	Ditto, but with PVC coating.	RM	80		
Total					

(I) Naser Hospital - Khan Younis**Bill No. (4)****Carpentry & Joinery Works****Summary****Total of Page No. "1" of Carpentry & Joinery Works** \$ _____**Total of Carpentry & Joinery Works (Bill No. "4")
Carried to General Summary of (I)** \$ _____

(I) Naser Hospital - Khan Younis
Bill No. (5)
Metal & Plastic Works
Page No. 1

Item	Description	Unit	Qty	Unit Rate (\$)	Total Amount (\$)
	All activities must be performed as per specifications, drawings and the engineer's instructions.				
1.	Supply and fix powder coated color aluminum divider (grade A) 2000 or equivalent 250cm length and 220cm height, complete with frame, fibber glass 80cmx60cm, ironmongery and hardware. (The price includes fixation and Repairing the damages).	Unit	13		
2.	Supply and fix powder coated color aluminum (grade A) 2000 or equivalent , for security room,150cm wide , 400cm length and 200cm height, complete with frame, fibber glass 80cmx60cm , clear glass 6mm thick, ironmongery and hardware. The price includes fixation, Repairing the damages.	Unit	1		
3.	Supply and install Acoustic tiles Mineral Fiber false ceiling (ant bacteria) complete with exposed suspension system to suit (60*60) cm size tiles including side spacers and trims.	M ²	220		
4.	Carefully dismantle and re-erect the aluminium door 280cm x 220 cm to the new location.	No.	1		
Total					

(I) Naser Hospital - Khan Younis***Bill No. (5)******Metal & Plastic Works******Summary*****Total of Page No. "1" of Metal & Plastic Works** \$ _____***Total of Metal & Plastic Works (Bill No. "5")
Carried to General Summary of (I)*** \$ _____

(I) Naser Hospital - Khan Younis
Bill No. (6)
Plumbing & Sanitary Works
Page No. 1

Item	Description	Unit	Qty	Unit Rate (\$)	Total Amount (\$)
	All activities must be performed as per specifications, drawings and the engineer's instructions.				
1.	Supply and fix stainless steel surgical scrub medical use sink features include; knee operated water and soap, adjustable water temperature, faucet with rose spray aerator, wall mounted, large scrub area, sloped bottom to minimize splash Vitra or equivalent tybe , Dimensions: 94"W x 27.5"D x 37.125"H. Unit will be supported by a Z-bracket and two main support brackets supplied with the sink. The sink is to be installed with the top of the back 51.5" and base 14.5" above the floor. complete with all water supply pipes ½", waste fitting, trap, plug and chain, chromium plated water mixer 1/2" dia. Jack type) long arm (From Artema-Armix or Hamat -Eris or approved equivalent) and mirror 60x60cm, the drainage line to floor trap 2", water supply feeder 16mm , all needed accessories & the pipe concrete encasement.	Unit	2		
2.	Supply and fix floor trap 4 inch diameter, complete with heavy duty brass grating and 4" diam. 2"UPVC drainage pipe to the nearest floor trap or manhole with copper grass.	Unit	4		
3.	Supply & fix 16mm dia.PE pipe Golan type water, the price include repair any damages in plastering and painting .the price include valves and connection with the existing.	RM	40		
4.	Ditto but 3/4" dia.	RM	20		
5.	Supply and install UPVC pipes 4" diameter for drainage, with sockets joint 3.2 mm wall thickness. The work shall include the fixation, jointing, and the pipe concrete encasement.....etc to complete the job.	RM	10		
Total					

(I) Naser Hospital - Khan Younis**Bill No. (6)****Plumbing & Sanitary Works****Summary****Total of Page No. "1" of Plumbing & Sanitary Works** \$ _____**Total of Plumbing & Sanitary Works (Bill No. "6")
Carried to General Summary of (I)** \$ _____

(I) Naser Hospital - Khan Younis
Bill No. (7)
Air Condition Works
Page No. 1

Item	Description	Unit	Qty	Unit Rate (\$)	Total Amount (\$)
	All activities must be performed as per specifications, drawings and the engineer's instructions.				
1.	Supply, left to position, install, test and commission, thermally insulated (Supply/Return) air ducts, the ducts must be made of 0.6 mm thick galvanized steel sheets, insulated with external one inch thick glass wool and covered with aluminium vapour barrier foil, price shall include all required and necessary volume dampers, fire dampers, split dampers, supports, accessories and all works upon completing the works, in accordance with standards, and the price shall include making suitable opening into the wall including covering it with aluminium covering from wall both sides according to engineers instructions and approved shopdrawings . 300 x 600 mm	RM	20		
2.	Ditto, but for 200 x 500mm.	RM	8		
3.	Ditto, but for 200 x 400mm.	RM	10		
4.	Ditto, but for 200 x 300mm.	RM	20		
5.	Ditto, but for 200 x 200mm.	RM	30		
6.	Supply, left to position, install, test and commission, SHEVAH exhaust air fan (to be connected "In conjunction" with the Package 01), complete with fan casing made of 0.6 mm thick galvanized steel sheets, price shall include all required and necessary volume dampers, fire dampers, split dampers, supports, accessories and all works upon completing the works, in accordance with standards. 765 cfm @ 400 Pa	Unit	2		
7.	Supply, left to position, install, test and commission, (Supply - Return - Exhaust) YAAD air outlets (White Color) complete with air registers, price shall include all required and necessary supports, accessories and all works upon completing the works, in accordance with standards. 30x30cm 4ways diff.	Unit	15		
Total					

(I) Naser Hospital - Khan Younis
Bill No. (7)
Air Condition Works
Page No. 3

Item	Description	Unit	Qty	Unit Rate (\$)	Total Amount (\$)
8.	Ditto, but for 30x30cm return/exhaust grill.	Unit	15		
9.	Supply, left to position, install, test and commission, 12,000 but Wall mounted S.U.A.C. consists of indoor and outdoor units, remote control unit with temperature sensor and digital screen, dust filter, copper pipes, copper evaporators and condensers coils with aluminum fins. Price shall include supply and install Thermally insulated 1¼" PVC condensate pipe with S trap, external unit supports made of galvanized steel and painted with primary and secondary painting layers, connections to the existing power panel, all low voltage, signal and DC connections, all supports, accessories and all works upon completing the works, in accordance with standard.	Unit	2		
10.	Supply, left to position, install, test and commission, European or U.S. made (Diam. 6") Wall mounted exhaust air fan. Price shall include connections to the existing power panel, all supports, accessories and all works upon completing the works, in accordance with standard.	Unit	3		
Total					

(I) Naser Hospital - Khan Younis**Bill No. (7)****Air Condition Works****Summary**

Total of Page No. "1" of Air Condition Works \$ _____

Total of Page No. "2" of Air Condition Works \$ _____

Total of Air Condition Works (Bill No. "7")
Carried to General Summary of (I) \$ _____

(I) Naser Hospital - Khan Younis
Bill No. (8)
Medical Gases Works
Page No. 1

Item	Description	Unit	Qty	Unit Rate (\$)	Total Amount (\$)
	All activities must be performed as per specifications, drawings and the engineer's instructions.				
1.	Supply, install, test and commission Type "L" copper pipe Diam. 3/8 inch for medical gases pipes, the pipes shall be cleaned , flushed and two ends capped including all connection and fittings.	RM	40		
2.	Ditto, but for Diam. 1/2 inch.	RM	40		
3.	Ditto, but for Diam. 5/8 inch.	RM	100		
4.	Supply, install , test and commission Diam. 5/8 inch valves for medical gases pipes , the valves shall be cleaned, flushed and two ends capped, with nibbles' and all connection and fittings.	No.	14		
5.	Supply & install exposed Oxygen medical gases outlets complete with all necessary fittings.	No.	14		
6.	Ditto, but for Vac. Outlet.	No.	14		
Total					

(I) Naser Hospital - Khan Younis**Bill No. (8)****Medical Gases Works****Summary****Total of Page No. "1" of Medical Gases Works** \$ _____**Total of Medical Gases Works (Bill No. "8")
Carried to General Summary of (I)** \$ _____

(I) Naser Hospital - Khan Younis
Bill No. (9)
Electrical Works
Page No. 1

Item	Description	Unit	Qty	Unit Rate (\$)	Total Amount (\$)
	All activities must be performed as per specifications, drawings and the engineer's instructions. All the electrical fixtures must be Carefully dismantling and handle to MoH.				
1.	Supply, install & commissioning 30cm x 40 cm panel board made of 2mm thick Galvanized steel sheets, painted with anti-rust insulating paint, factory assembled, wired & tested in accordance with approved international testing procedure.	No.	1		
2.	Supply, install and test circuit breaker 10 KA, 3X40A Hager made or approved equivalent.	No.	1		
3.	Ditto, but 25A.	No.	3		
4.	Ditto, but 16A	No.	5		
5.	Ditto, but 10A	No.	3		
6.	Supply and install socket outlet (2P+E) 10/16A, including 3X2.5mm ² wires, covers, conduits, bolts and clamps, and connection boxes, complete with all accessories for connection and commissions.	No.	30		
7.	Ditto, but telephone socket, including 2 pair telephone cable, completes with all accessories wires (Gewis).	No.	5		
8.	Ditto, but net socket, including 2 pair net cable, completes with all accessories wires (Gewis).	No.	5		
9.	Supply and install single pole 10A, 220V, ON/OFF switch, the work includes all accessories (Gewis).	No.	3		
10.	Ditto, but double pole.	No.	10		
11.	Ditto, but triple pole.	No.	2		
12.	Supply and install fluorescent lighting fixture 2x36w with fine polyester diffuser for surface mounting (Ga'ash).	No.	5		
13.	Ditto , but 1x36 Watt	No.	2		
Total					

(I) Naser Hospital - Khan Younis
Bill No. (9)
Electrical Works
Page No. 2

Item	Description	Unit	Qty	Unit Rate (\$)	Total Amount (\$)
14.	Supply and install fluorescent 60cm x 60cm lighting fixture 4x18w with fine aluminum diffuser for recessed mounting into false ceiling (Ga'ash).	No.	35		
15.	Supply and install emergency lighting fixture 8w, 90 min duration with self adhesive "EXIT" sign in both English / Arabic languages for ceiling and wall mounting.	No.	2		
16.	Supply and install fluorescent lighting fixture 18watt above mirror lighting, IP44 for toilets	No.	4		
17.	Supply and install flood lighting fixture 70 watt, HPS lamp, WP type, wall mounting	No.	4		
18.	Supply, install and test ceiling fan (CHMC) with wires and/or cables of not less than 3x1.5mm ² , and all accessories to provide complete fitting with all terminal, fixtures, works and all related parts.	No.	4		
19.	Ditto, but for extractor fan 6" dia. with shutter (venta).	No.	4		
20.	Supply, install test and commission the main public address system main Rack with 250W amplifier that suitable for the job , chime microphone. No (2) unit cables, selector switch and all accessories according to drawings , specifications and engineers instructios (Type is PHILIPS or equivalent)	L.S	1		
21.	Supply , install , test and commission 11 " ceiling mounted loud speaker (6/8W , 8 ohm,) with 100V matching transformer and 93db pressure sensitivity , wiring with 0.9mm cable from amplifier to the loud speakers and all accessories as mentioned in drawings .	No.	10		
21.	Supply, install, connect and test push-button panel composition intercom system, between maternities, polygene, doctors & administration with all needed part, cable, power supply boxes including: Back Boxes and frame , Hood cover ,Button modules , Electric door speaker (Type is PHILIPS or equivalent)	L.S	1		
22.	Supply and install PVC 3" sleeve for the air condition unites, the work include repair all demerges and covering the opining from wall both sides.	No.	8		
Total					

(I) Nasser Hospital - Khan Younis**Bill No. (9)****Electrical Works****Summary**

Total of Page No. "1" of Electrical Works \$ _____

Total of Page No. "2" of Electrical Works \$ _____

Total of Electrical Works (Bill No. "10")
Carried to General Summary of (I) \$ _____

(I) Nasser Hospital - Khan Younis***General Summary***

Total of Bill No. "1" of Demolishing Works	\$ _____
Total of Bill No. "2" of Concrete & Block Works	\$ _____
Total of Bill No. "3" of Finishing Works	\$ _____
Total of Bill No. "4" of Carpentry & Joinery Works	\$ _____
Total of Bill No. "5" of Metal & Plastic Works	\$ _____
Total of Bill No. "6" of Plumbing & Sanitary Works	\$ _____
Total of Bill No. "7" of Air Condition Works	\$ _____
Total of Bill No. "8" of Medical Gases Works	\$ _____
Total of Bill No. "9" of Electrical Works	\$ _____
<i>Total of (I) Naser Hospital - Khan Younis Works Carried to General Summary of the Project</i>	\$ _____

(II) Yafa Hospital - Deir Al Balah**Bill No. (1)****Demolishing Works****Page No. "1"**

Item	Description	Unit	Qty.	Unit Rate \$	Total Amount \$
	All activities must be performed as per specifications, drawings and the engineer's instructions.				
1.	Carefully dismantle the existing aluminum partition and re use it to the new partition location according the drawing and for the new partition between w.c and water fillter location the work include all necessary matirialsand and repering all demeges resulted the work, and the price shell include suppling and installing approved electrical ON/OFF switch ISEO tybe or eqivilent for the corridor door from inside opining and, according to engineer instructions.	L.S	1		
Total					

(II) Yafa Hospital - Deir Al Balah**Bill No. (1)****Demolishing Works****Summary**

Total of Page No. "1" of Demolishing Works \$ _____

**Total of Demolishing Works (Bill No. "1")
Carried to General Summary of (II)** \$ _____

(II) Yafa Hospital - Deir Al Balah
Bill No. (2)
Concrete & Block Works
Page No. "1"

Item	Description	Unit	Qty.	Unit Rate \$	Total Amount \$
	All activities must be performed as per specifications, drawings and the engineer's instructions.				
1.	Supply and build internal 10cm block walls at the existing operation room and kitchen. The price includes supplying and executing concrete lintel 20cmx10cm and any needed repair defects in surface for the existing walls, ceiling and floors.	M ²	10		
Total					

(II) Yafa Hospital - Deir Al Balah**Bill No. (2)****Concrete & Block Works****Summary****Total of Page No. "1" of Concrete & Block Works** \$ _____**Total of Concrete & Block Works (Bill No. "2")**
Carried to General Summary of (II) \$ _____

(II) Yafa Hospital - Deir Al Balah
Bill No. (3)
Finishing Works
Page No. 1

Item	Description	Unit	Qty	Unit Rate (\$)	Total Amount (\$)
	All activities must be performed as per specifications, drawings and the engineer's instructions.				
1.	Supply & execute internal plastering 13mm thick to walls, soffits & columns including galvanized metal lath angles for columns, edges & chicken wire at the intersection of concrete & block works, pipes & cement rendering.	M ²	20		
2.	Supply and paint one primer and minimum two coats of emulsion paint (Supercryle) internal walls and drop beams .The price include removing the existing paints with sand plus machine and repair the plastering (Tambour).	M ²	300		
3.	Supply, paint and apply two coats of putty, one undercoat primer and two coats of colored oil paint for the walls up to lintel level .The price include removing the existing paints with sand plus machine and repair the plastering (Tambour).	M ²	100		
4.	Ditto, but with Anti Bacteria oil paint for Operation room (غرفة العمليات).	M ²	100		
5.	Supply and install Granite table for Fillter Pleace, 3cm tiger top 60cm x140cm dim., 3cm marble shelves and divider. The price includes all the needed materials to complete the job and including shifting location of wash basin.	Unit	1		
6.	Supply and install 45cm x45cm color porcelain wall tiles (Spanish grade A) 6mm thick laid on 2cm mortar (1:3).	M ²	30		
Total					

(II) Yafa Hospital - Deir Al Balah**Bill No. (3)****Finishing Works****Summary****Total of Page No. "1" of Finishing Works**

\$ _____

**Total of Finishing Works (Bill No. "3")
Carried to General Summary of (II)**

\$ _____

(II) Yafa Hospital - Deir Al Balah
Bill No. (4)
Carpentry & Joinery Works
Page No. 1

Item	Description	Unit	Qty	Unit Rate (\$)	Total Amount (\$)
	All activities must be performed as per specifications, drawings and the engineer's instructions.				
1.	maintain the existing two leave flushed wooden door overall size 160 x 220cm.The price shall include, Painting, supplying and erecting hinges, a new hard ware lock type Wally switch or approved equivalent.	No.	4		
2.	Ditto, but for one leave , overall size 100 x 220cm.	No.	4		
3.	Ditto, but for one leave , overall size 80 x 220cm.	No.	4		
4.	Supply, fix & paint two leave flushed wooden door type D1, overall size 160 x 220cm with galvanized steel frame and double side protection stainless steel sheets with more than 1mm thick , 100cm height.	No.	1		
Total					

(II) Yafa Hospital - Deir Al Balah**Bill No. (4)****Carpentry & Joinery Works****Summary****Total of Page No. "1" of Carpentry & Joinery Works** \$ _____**Total of Carpentry & Joinery Works (Bill No. "4")
Carried to General Summary of (II)** \$ _____

(II) Yafa Hospital - Deir Al Balah
Bill No. (5)
Metal & Plastic Works
Page No. 1

Item	Description	Unit	Qty	Unit Rate (\$)	Total Amount (\$)
	All activities must be performed as per specifications, drawings and the engineer's instructions.				
1.	Supply and erect cupboard leaves 300cm x 90cm for the existing kitchen to be used as doctors room, which will be made aluminum frames covered with colored Formica 0.5mm sheets from both sides. (The prices include supply; install marble 60cm x 40 cm to close the sink opening).	L.S	1		
2.	Supply and erect cupboard leaves 100cm x 90cm for the filter place, which will be made aluminium frames covered with colored Formica 0.5mm sheets from both sides. (The prices include fixation and all necessary to complete the job).	L.S	1		
3.	Supply and erect 2.0 mm PVC Flooring (Rolls) Traflex type for operation, incubation room, including Skirting, adhesive material, welding and finishing. The prices include removing the existing PVC flooring.	M ²	35		
4.	Supply and fix powder coated colour aluminum door (grade A) 2000 or equivalent 100cm length and 220cm height, complete with aluminum frame, and 6mm clear glass , ironmongery and hardware . (The price includes fixation and Repairing the damages).	No.	1		
Total					

(II) Yafa Hospital - Deir Al Balah**Bill No. (5)****Metal & Plastic Works****Summary****Total of Page No. "1" Metal & Plastic Works** \$ _____**Total of Metal & Plastic Works (Bill No. "5")
Carried to General Summary of (II)** \$ _____

(II) Yafa Hospital - Deir Al Balah
Bill No. (6)
Plumbing & Sanitary Works
Page No. 1

Item	Description	Unit	Qty	Unit Rate (\$)	Total Amount (\$)
	All activities must be performed as per specifications, drawings and the engineer's instructions.				
1.	Supply, install and test 80cm x 68 stainless steel surgical scrub sink with two stations, for each of the followings must include: long arm hand water control, faucet and knee operated soap dispenser. Complete system include water temperature selector, thermostatically-controlled mixing valve (Artema-Armix or Hamat -Eris or approved equivalent) and mirror 60x80cm, steel brackets supports and the drainage line to floor trap 2", water supply feeder 16mm , all needed accessories & the pipe concrete encasement, the price include carefully dismantle and handle the old one to MOH.	Unit	1		
2.	Supply & fix white glazed porcelain squatting BLOOD DISPOSAL (HARSA EUROPEAN - TYPE or approved equivalent) complete with porcelain flushing cistern, pip hose, seat & plastic cover, 4" dia. P.V.C. drainage pipe to the nearest main drainage line, all needed accessories & the pipe concrete encasement (as shown in the drawings (Vitra-Normus or approved equivalent.), the price include carefully dismantle and handle the old W.C to MOH..	Unit	1		
3.	Supply & fix EUROPEAN WATER FILLTER. Type doctor with 3 filters, 40 litter glass tank and all needed accessories to complete the job.	Unit	1		
Total					

(II) Yafa Hospital - Deir Al Balah**Bill No. (6)****Plumbing & Sanitary Works****Summary****Total of Page No. "1" of Plumbing & Sanitary Works** \$ _____**Total of Plumbing & Sanitary Works (Bill No. "6")
Carried to General Summary of (II)** \$ _____

(II) Yafa Hospital - Deir Al Balah
Bill No. (7)
Air Condition Works
Page No. 1

Item	Description	Unit	Qty	Unit Rate (\$)	Total Amount (\$)
	All activities must be performed as per specifications, drawings and the engineer's instructions.				
1.	Supply, left to position, install, test and commission, 18,000 BTU Wall mounted S.U.A.C. consists of indoor and outdoor units, remote control unit with temperature sensor and digital screen, dust filter, copper pipes, copper evaporators and condensers coils with aluminum fins. Price shall include supply and install Thermally insulated 1¼" PVC condensate pipe with S trap, external unit supports made of galvanized steel and painted with primary and secondary painting layers, connections to the existing power panel, all low voltage, signal and DC connections, all supports, accessories and all works upon completing the works, as per HTM, ASHRAE standard.	Unit	1		
2.	Carefully dismantle and re-erect the existing air condition for the existing doctor room to the new location.	L.S	1		
Total					

(II) Yafa Hospital - Deir Al Balah**Bill No. (7)****Air Condition Works****Summary****Total of Page No. "1" of Air Condition Works** \$ _____**Total of Air Condition Works (Bill No. "7")
Carried to General Summary of (II)** \$ _____

(II) Yafa Hospital - Deir Al Balah
Bill No. (8)
Medical Gases Works
Page No. 1

Item	Description	Unit	Qty	Unit Rate (\$)	Total Amount (\$)
	All activities must be performed as per specifications, drawings and the engineer's instructions.				
1.	Supply, install, test and commission Type "L" copper pipe Diam. 3/8 inch for medical gases pipes, the pipes shall be cleaned , flushed and two ends capped including all connection and fittings.	RM	30		
2.	Ditto, but for Diam. 1/2 inch	RM	30		
3.	Supply, install , test and commission Diam. 5/8 inch valves for medical gases pipes , the valves shall be cleaned, flushed and two ends capped, with nibbles' and all connection and fittings.	No.	8		
4.	Supply & install exposed Oxygen medical gases outlets complete with all necessary fittings.	No.	8		
5.	Ditto, but for Vac. Outlet.	No.	8		
Total					

(II) Yafa Hospital - Deir Al Balah**Bill No. (8)****Medical Gases Works****Summary****Total of Page No. "1" of Medical Gases Works** \$ _____**Total of Medical Gases Works (Bill No. "8")
Carried to General Summary of (II)** \$ _____

(II) Yafa Hospital - Deir Al Balah
Bill No. (9)
Electrical Works
Page No. 1

Item	Description	Unit	Qty	Unit Rate (\$)	Total Amount (\$)
	All activities must be performed as per specifications, drawings and the engineer's instructions.				
1.	Supply and install fluorescent lighting fixture 2x36w with fine polyester diffuser for surface mounting, including 3X1.5mm ² wires, and connection boxes, complete with all accessories for connection and commissions.	Unit	5		
2.	Supply and install single pole 10A, 220V, ON/OFF switch, the work includes 3X1.5mm ² wires and all accessories needed.	Unit	2		
3.	Ditto, but double pole.	Unit	2		
4.	Supply and install socket outlet (2P+E) 10/16A, including 3X2.5mm ² wires, covers, conduits, bolts and clamps, and connection boxes, complete with all accessories for connection and commissions.	Unit	5		
5.	Supply, install & commissioning 30cm x 40 cm panel board made of 2mm thick Galvanized steel sheets, painted with anti-rust insulating paint, factory assembled, wired & tested in accordance to approved international testing procedure.	Unit	2		
6.	Supply, install & commissioning Kwh meter 3 phases 3x5A.	Unit	1		
7.	Supply, install & commissioning KVAR meter 3 phases 3x5A.	Unit	1		
8.	Supply, install & commissioning 16mm cable	RM	30		
9.	Supply, install, connect and test complete public address system with all required cables, junction boxes conduits, ceiling mounted loud speaker, power amplifier, microphone desk stand and all necessary accessories between maternities, polygene, doctors & administration (Type is PHILIPS or equivalent)	L.S	1		
10.	Supply, install, connect and test push-button panel composition intercom system, between maternities, polygene, doctors & administration with all needed part, cable, power supply boxes including: Back Boxes and frame , Hood cover ,Button modules , Electric door speaker (Type is PHILIPS or equivalent)	L.S	1		
Total					

(II) Yafa Hospital - Deir Al Balah***General Summary***

Total of Bill No. "1" of Demolishing Works	\$ _____
Total of Bill No. "2" of Concrete & Block Works	\$ _____
Total of Bill No. "3" of Finishing Works	\$ _____
Total of Bill No. "4" of Carpentry & Joinery Works	\$ _____
Total of Bill No. "5" of Metal & Plastic Works	\$ _____
Total of Bill No. "6" of Plumbing & Sanitary Works	\$ _____
Total of Bill No. "7" of Air Condition Works	\$ _____
Total of Bill No. "8" of Medical Gases Works	\$ _____
Total of Bill No. "9" of Electrical Works	\$ _____
<i>Total of (II) Yafa Hospital - Deir Al Balah Carried to General Summary of the Project</i>	\$ _____

(III) Rafah Clinic - Rafah
Bill No. (1)
Finishing Works
Page No. 1

Item	Description	Unit	Qty	Unit Rate (\$)	Total Amount (\$)
	All activities must be performed as per specifications, drawings and the engineer's instructions.				
1.	Demolishing safely the existing wall as at the existing emergency room 7m length with 3m height & removing of all debris from site to approved places.	L.S	1		
2.	Carefully dismantle the existing wooden door 90cm wide x 220 cm high and re-erect again to new location. The price shall include supply and execute paints, wooden frame, hinges, a new hard ware lock type Wally switch or approved equivalent.	No.	2		
3.	Ditto, but for wooden door 160cm wide x 220 cm high .the price include modify the door to mach the existing opening 100x220cm.	No.	2		
4.	Supply and build internal 20cm block walls at the existing emergency room. The price includes supplying and executing the plastering, concrete lintel 20cmx20cm and any needed repair defects in surface for the existing walls, ceiling and floors.	M ²	12		
5.	Supply and paint one primer and minimum two coats of emulsion paint (Palisade) for ceiling and drop beams.	M ²	50		
6.	Supply and paint one primer and minimum two coats of emulsion paint (Supercryle) internal walls and drop beams.	M ²	50		
7.	Supply and paint, apply two coats of putty, one undercoat primer and two coats of colored oil paint for the walls up to lintel level.	M ²	50		
8.	Supply, install and test ceiling fan (CHMC) with wires and/or cables of not less than 3x1.5mm ² , and all accessories to provide complete fitting with all terminal, fixtures, works and all related parts.	No.	1		
Total					

(III) Rafah Clinic – Rafah***General Summary***

Total of Bill No. “1” of Finishing Works \$ _____

***Total of (III) Rafah Clinic – Rafah Works
Carried to General Summary of the Project*** \$ _____

(IV) Kherbet Al Adass Clinic - Rafah
Bill No. (1)
Finishing Works
Page No. 1

Item	Description	Unit	Qty	Unit Rate (\$)	Total Amount (\$)
	All activities must be performed as per specifications, drawings and the engineer's instructions.				
1.	Scrap mechanically thin layer of terrazzo floor tiles, wash it with water to remove dust, allow for drying then, the work shall include the polishing, the pointing with white cement and all the needed materials to complete the job.	M ²	180		
2.	Supply and execute two coats of external coloured emulsion paint (Weather Shield) for the Tyrolean finish at the external walls, the work shall include any needed repair defects in surface for these walls.	M ²	100		
3.	Remove old & loose peeling paint with scrapper & coarse sand paper until firm basis is reached, sweeping to remove dust, and allow drying, repair the defects in surface; supply, apply one coat of super bondrol, and two coats of emulsion paint (Poliside) for the ceiling & the walls from the lintel level up to the ceiling.	M ²	180		
4.	Remove old & loose peeling paint with scrapper & coarse sand paper until firm basis is reached, sweeping to remove dust, and allow drying, repair the defects in surface; supply, apply one coat of super bondrol, and two coats of emulsion paint (Supercryle) for walls above the lintel level up to the ceiling.	M ²	220		
5.	Remove old & loose peeling paint with scrapper & coarse sand paper until firm basis is reached, sweeping to remove dust, and allow drying, repair the surface; supply, apply two coats of putty, one undercoat primer and two coats of colored oil paint for the walls up to lintel level.	M ²	440		
Total					

(IV) Kherbet Al Adass Clinic - Rafah
Bill No. (1)
Finishing Works
Page No. 2

Item	Description	Unit	Qty	Unit Rate (\$)	Total Amount (\$)
6.	Remove all peeling, loose paint and take away all rust of steel gate size 200cm wide x 220cm high, supply, apply one coat of undercoat and two coats of colored oil paint. The price shall include supplying and erecting hinges, a new hard ware lock type Wally switch or approved equivalent.	No.	1		
7.	Ditto, but for steel door size 120cm wide x 220 cm high.	No.	2		
8.	Ditto, but for steel door size 90cm wide x 220 cm high.	No.	2		
9.	Ditto, but for wooden door size 90cm wide x 220 cm high.	No.	10		
10.	Remove all peeling, loose paint and take away all rust of the wooden windows 250cm wide x 100cm high, supply, apply prime, undercoat & two coats of colored oil paint.	No.	1		
11.	Ditto, but for size 150x120cm	No.	3		
12.	Ditto, but for size 120x120cm	No.	3		
13.	Remove all peeling, loose paint and take away all rust of the steel protection windows 250cm wide x 100cm high, supply, apply prime, undercoat & two coats of colored oil paint.	No.	1		
14.	Ditto, but for size 150x120cm.	No.	3		
15.	Ditto, but for size 120x120cm.	No.	3		
16.	Supply and erect marble 2 cm thick for the polyethylene water tank 150 cm.	Unit	1		
17.	Supply and fix soft wood rubbing rails size 200mm x 20mm with round edges, smooth surface , supply, apply two coats of sanding sealer, sand lightly and apply two coats of varnish, drill and fix to concrete or block walls using expansion steel bolts.	RM	300		
Total					

(IV) Kherbet Al Adass Clinic - Rafah**Bill No. (1)****Finishing Works****Summary**

Total of Page No. "1" of Finishing Works \$ _____

Total of Page No. "1" of Finishing Works \$ _____

**Total of Finishing Works (Bill No. "1")
Carried to General Summary of (IV)** \$ _____

(IV) Kherbet Al Adass Clinic - Rafah***General Summary***

Total of Bill No. "1" of Finishing Works \$ _____

***Total of (IV) Kherbet Al Adass Clinic – Rafah Works
Carried to General Summary of the Project*** \$ _____

GENERAL SUMMARY OF THE PROJECT

Total of (I) Naser Hospital Works \$ _____

Total of (II) Yafa Hospital Works \$ _____

Total of (III) Rafah Clinic Works \$ _____

Total of (IV) Kherbet Al Adass Clinic Works \$ _____

Grand Total of the Project \$ _____

GRAND TOTAL OF THE PROJECT IN WORDS: _____
