

BILL OF QUANTITIES

KPS Store room & Sun net covering

CLIENT : MINISTRY OF EDUCATION, GOVERNMENT OF MALDIVES

SUMMARY OF BILLS OF QUANTITIES
KPS Store room & Sun net covering

DESCRIPTION	AMOUNT	%
KPS Store		
KPS Sun net covering		
SUB-TOTAL		
GST 8%		
GRAND TOTAL		

SUMMARY OF BILLS OF QUANTITIES

KPS Store room

DESCRIPTION	AMOUNT	%
Bill №: 01 - PRELIMINARIES		
Bill №: 02 - GROUND WORKS		
Bill №: 03 - INSITU CONCRETE WORKS		
Bill №: 04 - MASONRY		
Bill №: 05 - STRUCTURAL METAL WORKS		
Bill №: 06 - ROOFING		
Bill №: 07 - WINDOWS, SCREENS & LIGHTS		
Bill №: 08 - DOORS, SHUTTERS & HATCHES		
Bill №: 09 - FLOOR, WALL, CEILING, AND ROOF FINISHINGS		
Bill №: 10 - PAINTING & DECORATIONS		
Bill №: 11 - MECHANICAL & ELECTRICAL SERVICES		
Bill №: 12 - ADDITIONS AND OMMISIONS		
SUB-TOTAL		
GST 8%		
GRAND TOTAL		

PREAMBLE NOTES

1.1 Discrepancies

All participants in the tender exercise are deemed to have read the Specifications and BOQ carefully in conjunction with all the Contract Drawings. Any discrepancies between these documents are to be brought to the attention of the Employer and clarified prior to the closing of the Tender. Should any said discrepancies be discovered at a later date, the decision of the Employer is final and any extra cost due to the contractor as a result of such discrepancies will NOT be entertained whatsoever. The Contractor shall, at all times, exercise with care and professional scrutiny to ensure that there are no discrepancies and/or divergence between Contract Drawings and specifications prior to execution of any portion of the Works on site. The Contractor shall immediately give the Employer a written notice specifying any such discrepancies or divergence should he discovered such issues and the Employer shall issue instructions in regard thereto. The Contractor should exercise due diligence in this matter as a failure and/or negligence in complying with the above stated requirements may result in extra costs. Any extra costs incurred in respect therefore shall be borne solely by the Contractor.

1.2 General Notes

1. The Bill of Quantities shall be read in conjunction with the Instruction to Bidders, General Conditions of Contract, Appendix to bid, Technical Specification and Tender Drawings.
2. The rates and prices tendered in the priced Bill of Quantities shall, except in so far as it is otherwise provided under the Contract, include all constructional plant, labour, supervision, materials, transportation, installation/erection, profit, together with all general risks, liabilities and obligations set out or implied in the Contract.
3. 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 solid waste transfer process will be carried out, and Access for the dump site.
 - Restrictions applicable to working in proposed area.
 - All safety regulations and employer site safety procedures.
4. A rate or price should be provided for each item in the Bill of Quantities, even if quantities are not explicitly stated. All quantities listed here are considered estimated quantities for the work to be performed. Tenderers must verify and validate these quantities before submitting their tender. In the event that something is missing from the Bill of Quantities but is shown on the drawings, the contractor must include it as an addition in the Bill of Quantities.
5. The whole cost of complying with the provisions of the Contract shall be included in the items provided in the priced Bill of Quantities, and where no items are provided but required for completion of contract works, the cost shall be deemed to be distributed among the rates and prices entered for the related item of work. Only properly executed variation orders shall be recognized for additional payment for items not entered in the Bill of Quantities.
6. General directions and descriptions of work and materials are not necessarily repeated or summarized in the Bill of Quantities. The Bidder shall refer to relevant sections of the Contract Document to fully understand the item requirements before entering rates or prices against each item in the Bill of Quantities. No variation is allowed for the given scope of work.
7. All quantities have been rounded to the nearest whole number. Quantities less than one unit has been given as one unit. Measurement standard applied for calculation of quantities are according to NRM-2, RICS.

BILL OF QUANTITIES

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL	LABOUR RATE	AMOUNT
1.0.00	Bill №: 01 - PRELIMINARIES					
1.1.00	<u>GENERAL NOTES</u>					
	<u>Abbreviations</u> m - metre nr - numbers m3 - cubic metres m2 - Square metres m - linear metre t - tons inc. - including mm - millimetre SS - stainless steel GI - galvanized iron					
1.2.00	<u>SITE MANAGEMENT COSTS</u>					
1.2.01	Allow for all on and off site management cost including costs of foreman and assistants, temporary services, telephone, fax, hoardings & similar.	item	1.00			
1.3.00	<u>SIGN BOARD</u>					
1.3.01	Allow for sign board.	nr	1.00			
1.4.00	<u>CLEAN-UP</u>					
1.4.01	Allow for clean-up upon completion of works.	item	1.00			
1.5.00	<u>INSURANCE, BONDS, GUARANTEES AND WARRANTIES</u>					
1.5.01	Insurance as stated in the general conditions.	item	1.00			
1.6.00	<u>SHOP DRAWINGS & AS BUILT DRAWINGS</u>					
1.6.01	Allow for Shop Drawings during the progress of the project and As-Built Drawings after the completion of the project as stated in the general conditions.	item	1.00			
1.7.00	<u>SAFETY ON SITE</u>					
1.7.01	Safety on site:- Providing and maintaining adequate safety measures on site for all workers and all authorized visitors on site and protecting adjoining properties and people against falling objects or other with regard to the construction works	item	1.00			
1.8.00	TOTAL OF BILL №: 01 - Carried Over To Summary					

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL	LABOUR RATE	AMOUNT
2.0.00	Bill №: 02 - GROUND WORKS					
2.1.00	<u>GENERAL</u> (a) Rates shall include for: leveling, grading, trimming, compacting to faces of excavation, keep sides plumb, backfilling, consolidating, and disposing surplus soil.					
2.2.00	<u>SITE CLEARING</u> Clear the area of site from rubbish and vegetable matters,trees,tree stumps, roots. Rates shall include for removal of trees and tree stumps and disposal of such items.					
2.3.01		m ²	30.00			
2.4.00	<u>EXCAVATION</u> Excavation quantities are measured to the faces of concrete members. Rates shall include for all the additional excavation required to place the formwork. Rates shall include for backfilling.					
2.4.01	Excavation for Foundation beams	m ³	2.27			
2.5.00	<u>FILLING</u> Rate shall include for: levelling, grading, trimming, compacting and similar					
2.5.01	Compacted earth filling under ground slab	m ²	27.60			
2.6.00	<u>DAMP-PROOF MEMBRANE</u> Rate shall include for: dressing around and sealing to all penetrations,laps and turnups.					
2.6.01	Polythene damp proof membrane (500 gauge)	m ²	27.60			
2.7.00	<u>RELOCATION OF EXISTING PIPE LINE</u> (The rate shall include the complete relocation of the soak pit.)					
2.7.01	Soak pits to be relocated outside the store	item	2.00			
2.8.00	TOTAL OF BILL №: 02 - Carried Over To Summary					

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL	LABOUR RATE	AMOUNT
3.0.00	Bill №: 03 - INSITU CONCRETE WORKS					
3.1.00	GENERAL					
	(a) Rates shall include for: placing in position, making good after removal of formwork, mortar touch up to all concrete and casting in all required items; additional concrete required to conform to structural and excavated tolerances					
	(b) Mix ratio for reinforced concrete shall be based on given Concrete Grade.					
	(c) All structural concrete shall be GRADE M25 and lean concrete shall be GRADE M15					
	(d) Rates shall include for: concrete, formwork, reinforcement, cleaning, fabrication, placing, the provision for all necessary temporary fixings and supports including tie wires and chair supports, laps, distribution bars and wastage.					
	(e) Rates shall include for: all necessary boarding, supports, erecting, framing, temporary cambering, cutting, perforations for reinforcing bars, bolts, straps, ties, hangers, pipes and removal of formwork.					
	(f) Rates shall include for: cleaning, fabrication, placing the provision for all necessary temporary fixings and supports including tie wires and chair supports, laps, distribution bars and wastage.					
	(g) All reinforcing bars shall be high strength bars.					
	(h) Slab soffits to be finished fairfaced, use plasteciser and formwork with reducing agent.					
	(i) All exposed & external concrete members shall be casted with Masterpel 777 or equivalent water proofing chemical.					
	(j) Rate shall include for applying 2 coats of waterproofing chemical to substructure.(Below ground level)					
3.1.01	Allow for Concrete Testing.	item	1.00			
3.2.00	MASS CONCRETE					
	Quantity is measured to the edges of concrete foundation members. Rates shall be inclusive for any additional concrete required to place the formwork.					
3.2.01	50 mm Lean Concrete (Foundations)	m ³	0.21			
3.3.00	REINFORCED INSITU CONCRETE					
	SUB-STRUCTURE					
	FOUNDATION BEAMS					
3.3.01	150 x 150 mm Foundation beam, TB	m ³	0.62			
	COLUMNS					
3.3.02	150 x 150 mm Concrete columns SC	m ³	0.08			
3.4.00	GROUND FLOOR					
	COLUMNS					
3.4.01	150 x 150 mm Concrete columns SC	m ³	0.47			
	SLABS					
3.4.02	100 mm thk Concrete Slab	m ³	2.75			
3.5.00	ROOF LEVEL - 02					
	BEAMS					
3.5.01	150 x 150 mm Beam RB	m ³	0.39			
3.6.00	OTHER WORKS					
	Lintel and Sill beams					
3.6.01	150 x 150 mm Beam LT1	item	1.00			
3.09.00	TOTAL OF BILL №: 03 - Carried Over To Summary					

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL	LABOUR RATE	AMOUNT
4.0.00	Bill №: 04 - MASONRY					
4.1.00	GENERAL (a) Rates shall include for: cleaning out cavities, forming rebated reveals and pointing and cleaning down to reveals where necessary; fractional size blocks, all necessary machine cutting, cutting or forming chases or edges of floor slabs, cutting or leavingholes and openings as recesses for and building in pipes, conduits, sleeves and similar as required for all trades; leaving surfaces rough or raking out joints for plastering and flashing, bedding frames or plates, building in joists, bearers or similar, temporary supports to openings, templates, reinforcement in walls and for all necessary making good.					
4.2.00	BLOCK WORK Cement block wall, bricks laid to form alternate courses of headers and stretchers, laid on and inc. mortar. (EXTERNAL WALLS) 150 mm thk full height					
4.2.01	GROUND FLOOR (Including under ground and above roof beam)	m ²	52.50			
4.3.00	TOTAL OF BILL №: 04 - Carried Over To Summary					

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL	LABOUR RATE	AMOUNT
5.0.00	Bill №: 05 - STRUCTURAL METAL WORKS					
5.1.00	GENERAL					
	(a) Rates shall include for: all fabrication work, welding, marking, drilling for bolts incl. those securing timbers, steel plates, bolts, nuts and any type of washer, riveted work, counter sinking and tapping for bolts or machine screws.					
	(b) Rates shall include for fabrication and erection and temporary supports and fixing into position.					
	(c) "Welding" is deemed to be in accordance with the specification and for the material to which it is to be used. Gusset plates, shoe plates, ends, caps, cleats, brackets, stiffeners, bolts, etc., are required to be included to the rate of the associated steel work in which they occur.					
	(d) For the description of materials and workmanship refer to the Specification of works, pricing Preambles and Drawings.					
	(e) Contractor shall submit shop drawings for approval prior to fabrication.					
	(f) Unless specified otherwise, rate shall include for: All shop fabrication work, marking, delivery, unloading, hoisting, erecting and fixing as per detail drawings, All welds & allowance for rolling margin, the weight of weld metal in welded constructions, members of any length, cutting to size and shape and joints in the running length, grinding to a smooth finish, unless otherwise required, Machine drilled bolt, holes, bolts, nuts and washers, cleats, shoe and gusset plates and all other connections, Wire brushing to clean all the steel surfaces (except stainless steel) after fabrication and spray painting with two coats of quick drying metal primer zinc phosphate & two coats of matt anti corrosive paint with final paint, all necessary accessories and preparation and submission of Shop Drawings and As Built Drawings as specified.					
5.2.00	STEEL TRUSS					
	TRUSS TR-Y					
5.2.01	Steel truss 3.3m span with 50x50x2.5mm thick SHS pipe top and bottom chord and 10mm dia rebars in web members as specified in the drawing	nr	3.00			
	COLUMNS					
5.2.02	76mm SHS Columns (3.5m)	nr	3.00			
	76mm SHS Columns (3.5m) embedded to Siffner columns	nr	2.00			
	BEAM					
5.2.01	76mm SHS Beam welded to columns	nr	1.00			
5.3.00	TOTAL OF BILL №: 05 - Carried Over To Summary					

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL	LABOUR RATE	AMOUNT
6.0.00	Bill №: 06 - ROOFING					
6.1.00	GENERAL (a) Rates shall include for: fair edges, dressing over angel fillets, roof sealant, turning into grooves, all other labours, circular edges, nails, screws and other fixings and laps.					
6.2.00	ROOF COVERING					
6.2.01	Lysaght roofing sheet to specification	m ²	35.25			
6.2.02	50mm mineral wool insulation with reflective layers on both installed as per suppliers specifications with recommended lap length and air gap tape. Rate shall include for BRC mesh over purlins to support insulation layer.	m ²	35.25			
6.3.00	FLASHING					
6.3.01	Lysaght ridge cap as per roofing sheet suppliers assembly	m	10.83			
6.4.00	GUTTER					
6.4.01	200 x 200 mm Zinc gutter	m	10.83			
6.5.00	DOWN PIPE					
6.5.01	100 mm dia rain water pipe	item	1.00			
6.6.00	FASCIA					
6.6.01	50 x 200 mm fascia board	m	10.83			
6.7.00	TOTAL OF BILL №: 06 - Carried Over To Summary					

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL	LABOUR RATE	AMOUNT
7.0.00	Bill №: 07 - WINDOWS, SCREENS & LIGHTS					
7.1.00	GENERAL (a) Rates shall include for locks, latches, closers, push plates, pull handles, bolts, kick plates, hinges and all door & window hardware. (b) Rates shall include for door frames, mullions, transoms, trims, glazing, tinting, timber panels, boardings, framing, lining, fastenings and all fixings. (c) Sizes are given overall outside dimensions of actual doors and windows. (d) Thickness and sizes of glass panels are shown on the Drawings and doors and windows schedule (e) Rates shall include for all painting as specified (f) Rates shall include all items specified in the door schedule and specification. (g) Frames and sashes to be 25-60 micron white powder coated aluminium other wise specified.					
7.2.00	WINDOWS					
	GROUND FLOOR					
7.2.01	1875 x 600 V1 - Aluminium window with aluminium frame and Aluminium louvers	nr	2.00			
7.3.00	TOTAL OF BILL №: 07 - Carried Over To Summary					

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL	LABOUR RATE	AMOUNT
8.0.00	Bill №: 08 - DOORS, SHUTTERS & HATCHES					
8.1.00	<u>GENERAL</u> (a) Rates shall include for locks, latches, closers, push plates, pull handles, bolts, kick plates, hinges and all door & window hardware. (b) Rates shall include for door frames, mullions, transoms, trims, glazing, tinting, timber panels, boardings, framing, lining, fastenings and all fixings. (c) Sizes are given overall outside dimensions of actual doors and windows. (d) Thickness and sizes of glass panels are shown on the Drawings and doors and windows schedule. (e) Rates shall include for all painting as specified (f) Rates shall include all items specified in the door schedule and specification. (g) Frames and sashes to be 25-60 micron white powder coated aluminium other wise specified.					
8.2.00	<u>DOORS</u>					
	<u>GROUND FLOOR</u>					
8.2.01	1640 x 2075 D7 - Aluminium panel door on Aluminium frame	nr	1.00			
8.3.00	TOTAL OF BILL №: 08 - Carried Over To Summary					

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL	LABOUR RATE	AMOUNT
9.0.00	Bill №: 09 - FLOOR, WALL, CEILING, AND ROOF FINISHINGS					
9.1.00	GENERAL (a) Rates shall include for: fixing, bedding, grouting, and pointing materials; making good around pipes, sanitary fixtures, and similar; cleaning down and polishing. (b) "Masterseal 550" or equivalent should be applied on top of screeds and walls upto 600mm in all toilets,corridor and Terrace.					
9.2.00	PLASTERING 20 mm thk cement plaster on external surface as specified on the drawing. Waterproofed with Masterpel 777 or equivalent.					
9.2.01	GROUND FLOOR	m ²	52.50			
	16 mm thk cement plaster on internal surface					
9.2.02	GROUND FLOOR	m ²	52.50			
9.3.00	CEMENT SCREED 50 mm thk cement screed					
9.3.01	GROUND FLOOR	m ²	27.50			
9.4.00	FLOOR TILING 600 x 600 mm Homogenous Non-slip tiles					
9.4.01	GROUND FLOOR	m ²	27.50			
9.5.00	SKIRTING 120-150 mm high Homogenous tile skirting					
9.5.01	GROUND FLOOR	item	1.00			
9.6.00	TOTAL OF BILL №: 09 - Carried Over To Summary					

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL	LABOUR RATE	AMOUNT
10.0.00	Bill №: 10 - PAINTING & DECORATIONS					
10.1.00	GENERAL					
	(a) Rates shall include for: the provision, erection and removal of scaffolding, preparation, wall putty application, rubbing down between coats and similar work, the protection and/or masking floors, fittings and similar work, removing and replacing door & window furniture.					
	(b) All painting work shall be carried in accordance with the Specifications.					
10.2.00	WALL PAINTING					
10.2.01	Weatherbound paint finish as specified (EXTERNAL SURFACES) GROUND FLOOR	m ²	52.50			
10.2.02	Emulsion paint finish including putty application on brick walls as specified (INTERNAL SURFACES) GROUND FLOOR	m ²	52.50			
10.3.00	TOTAL OF BILL №: 10- Carried Over To Summary					

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL	LABOUR RATE	AMOUNT
11.0.00	Bill №: 11 - MECHANICAL & ELECTRICAL SERVICES					
11.2.00	<p>GENERAL</p> <p>(a) Design, provide and install electrical network for the entire building complete in accordance to standards set by the local governing body STELCO/FENAKA.</p> <p>(b) The following items and description and the drawings are given as a guidance as to the nature of the information required to be returned by the contractor. Should they not be appropriate the contractor should provide a similar BOQ using the Additions/Omissions sheets provided at the back of this BOQ.</p> <p>(c) The cost shall include for: screws, nails, bolts, nuts, standard cable fixing or supporting clips, brackets, straps, rivets, plugs and all incidental accessories.</p> <p>(d) Rate shall include for necessary chasings, trenching, conduits, cables, cable trays, fittings and clips, cutting holes and chases in brick work/ block work/ concrete work complete with all necessary accessories such as sockets, connections, cable glands and boxes, hardware clips, soldering and jointing materials etc., for proper installing and laying of cables.</p> <p>(e) Rates for electrical isolators, conduits, fittings, equipment and similar items shall include for: all fixings to various building surfaces.</p> <p>(f) A light fixture is measured as one point; switch end of wire is not included in the quantity.</p> <p>(g) A point wiring for power points is measured (regardless of 1 gang, 2 gang etc) as one point for each socket outlet; other end of wire is not included in the quantity.</p> <p>(h) All under ground cables directly buried in ground/run in trenches to be properly laid and covered with cable tiles/trench covers. Rate for under ground cables shall include for all necessary excavation, sand layers, concrete tiles, warning strips and back filling with approved quality earth properly compacted, hot dipped galvanized brackets for trenches, accessories, etc as applicable.</p> <p>(i) The contractors are requested to refer Conditions of Contract, Special Conditions of Contract, Drawings and Specification and other relevant documents related to this tender prior to pricing of the following items</p> <p>(j) The contractor shall provide a schedule of all builder's work in connection with details of such items as necessary, along with the tender.</p> <p>(k) Rates for materials/ plants/ equipments not approved for duty free facilities to be quoted on duty paid basis.</p> <p>(l) All equipments shall be guaranteed for a period of 12 months from the date of commissioning or date of practical completion of the project which ever later</p> <p>(m) The rate shall include for insurance during handling, rehandling, transport, storage until ready for installation, delivery of equipments up to the point of installation and until handing over.</p> <p>(n) The rates shall include for comprehensive maintenance during defects liability period of 12 months from the date of handing over</p> <p>(o) The tenderer shall submit the following information on the items/equipments quoted for together with the tender.</p> <ol style="list-style-type: none"> a. make b. model No. c. technical data d. country of manufacture e. delivery period f. lead time for manufacturing. g. port of shipping h. CIF value of each item in foreign currency. j. Optional items and their additional cost. (additional cost to be submitted separately) k. Schedule of items to be carried out by others connected to installation of generators/transformers/Electrical panels such as some builders work and electrical connection. l. Details of all special features m. schedule attached to specification. <p>(p) Rate for all electrical panels shall include for supply and installation of all necessary MCCBs, MCBS, EFRs, ELCBs, auxiliary contacts, Voltmeters, ammeters, Digital analyser,kWh meters, indicator lamps, selector switches, copper bus bars, inter locks, aligning and grounding of the panel, inter connectors, internal wiring connections to switch gear,steel channels and necessary hardware fixing insulating materials,all in fully enclosed metal clad panels and distribution boards completed as shown in drawing. They shall comply with the specifications and I.E.E.regulations and be complete to working order to the approval of local authorities.</p> <p>(q) Rate shall include for supply, installation, maintaining, testing and commissioning of the system for power and lighting according to drawings and specifications to working order.</p> <p>(r) All materials, equipment wiring shall confirm to local codes, specifications, standards/latest I.E.E. regulations (BS 7671).</p>					
11.2.00	MAIN DISTRIBUTION, SUB DISTRIBUTION AND DISTRIBUTION SYSTEM					

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL	LABOUR RATE	AMOUNT
	<u>Main Panel Board and Distribution Boards (DB)</u>					
	Distribution Panel for each floor as shown on the drawing, complete with all incoming and outgoing MCBs, RCCBs, etc any other item required to working order, wall mounted wall mount steel powder coated, IP44 encloser with neutral link, earth bar and required accessories, all complete as per the specifications & drawings.					
11.2.01	Distribution Boards	nr	1.00			
	<u>MAIN / SUB CABLING</u>					
	All under ground cables directly buried in ground/ in the trenches as applicable, to be laid properly and covered with cable tiles, protection tapes, etc for mechanical protection, PVC sleeves may use if required. Rate shall include for all necessary works/accessories such as excavation, sand layers, cable tiles, warning strips and back filling with approved quality earth,properly compacted, to the satisfaction of the Engineer.					
	All above ground cables shall be laid on cable tray/ truncking /conduits as applicable and covered by tray covers, etc. for mechanical protection. PVC sleeves may use if required. Rate shall include for all necessary works/ accessories such as galvanized brackets, supporting materials, fittings, nails, cable ties, earthing, etc, trays shall be of required sizes, GI powder coated, and shotted, to the satisfaction of Engineer					
	<u>CABLING UP TO MDB</u>					
11.2.02	Feeder Cable	item	1.00			
11.2.03	Cabling from Panel board to DBs	item	1.00			
11.3.00	<u>POINT WIRING AND FITTINGS</u>					
	Rate shall include for supply & installation of cable, conduits for point wiring in concealed installations including lights,switches, power outlet,data points,isolators, etc, all as specified in the drawing					
11.3.01	Supply and Installation of 2 x 1C 1.5mm2 PVC/PVC/Cu + 2.5mm2 PVC/Cu earth cable c/w uPVC conduit, junction boxes etc. for lights and switches point wiring	nr	9.00			
11.3.02	Supply and Installation of 2 x 1C 2.5mm2 PVC/PVC/Cu + 2.5mm2 PVC/Cu earth cable c/w uPVC conduit, junction boxes,ethernet cables, RJ45 Connectors, VGA cables etc. for the Socket outlets point wiring	nr	1.00			
11.4.00	<u>LIGHTS,SWITCHES AND SOCKETS</u>					
	Rate shall include supply and installation of following lighting fixtures, socket outlets as specified and detailed, fixed in position including all fixing accessories, supports and connect to power, under following conditions					
	1. All bathrooms, out door light fixtures shall be IP65					
	2. All switches & sockets shall be Legrand or equivalent brand.					
	<u>LIGHTS AND SWITCHES</u>					
11.4.01	LED Ceiling light 18W	nr	3.00			
11.4.02	Ceiling fan (52" - 54")	nr	2.00			
11.4.03	Ceiling fan switches	nr	2.00			
11.4.04	Light switch (2 G)	nr	1.00			
11.4.05	Light switch (3 G)	nr	1.00			
	<u>SOCKETS</u>					
11.4.06	13 A twin socket outlet	nr	2.00			
11.5.00	TOTAL OF BILL №: 11 - Carried Over To Summary					

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL	LABOUR RATE	AMOUNT
12.0.00	Bill №: 12 - ADDITIONS AND OMMISIONS					
12.1.00	<u>ADDITIONS</u>					
14.1.01	Bill №: 01 - PRELIMINARIES					
14.1.02	Bill №: 02 - EXCAVATION AND FILLING					
14.1.03	Bill №: 03 - INSITU CONCRETE WORKS					
14.1.04	Bill №: 04 - MASONRY					
14.1.05	Bill №: 05 - WINDOWS, SCREENS & LIGHTS					
14.1.06	Bill №: 06 - DOORS, SHUTTERS & HATCHES					
14.1.07	Bill №: 07 - FLOOR, WALL, CEILING, AND ROOF FINISHINGS					
14.1.08	Bill №: 08 - SUSPENDED CEILING					
14.1.09	Bill №: 09 - PAINTING & DECORATIONS					
14.1.10	Bill №: 10 - STAIRS, WALKWAYS AND BALUSTRADES					
14.1.11	Bill №: 11 - MECHANICAL & ELECTRICAL SERVICES					
14.1.12	Bill №: 12 - PLUMBING					
14.1.13	Bill №: 13 - INSULATION, FIRE STOPPING & FIRE PROTECTION					
	<u>TOTAL</u>					
14.2.00	<u>OMISSIONS</u>					
14.2.01	Bill №: 01 - PRELIMINARIES					
14.2.02	Bill №: 02 - EXCAVATION AND FILLING					
14.2.03	Bill №: 03 - INSITU CONCRETE WORKS					
14.2.04	Bill №: 04 - MASONRY					
14.2.05	Bill №: 05 - WINDOWS, SCREENS & LIGHTS					
14.2.06	Bill №: 06 - DOORS, SHUTTERS & HATCHES					
14.2.07	Bill №: 07 - FLOOR, WALL, CEILING, AND ROOF FINISHINGS					
14.2.08	Bill №: 08 - SUSPENDED CEILING					
14.2.09	Bill №: 09 - PAINTING & DECORATIONS					
14.2.10	Bill №: 10 - STAIRS, WALKWAYS AND BALUSTRADES					
14.2.11	Bill №: 11 - MECHANICAL & ELECTRICAL SERVICES					
14.2.12	Bill №: 12 - PLUMBING					
14.2.13	Bill №: 13 - INSULATION, FIRE STOPPING & FIRE PROTECTION					
	<u>TOTAL</u>					
14.3.00	TOTAL OF BILL №: 14 - Carried Over To Summary					

SUMMARY OF BILLS OF QUANTITIES
KPS - SUN NET COVERING

DESCRIPTION	AMOUNT	%
Bill №: 01 - PRELIMINARIES		
Bill №: 02 - STRUCTURAL METAL WORKS		
Bill №: 03 - SUN NET COVER		
Bill №: 04- ADDITIONS AND OMMISIONS		
SUB-TOTAL		
GST 8%		
GRAND TOTAL		

BILL OF QUANTITIES

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	AMOUNT
1.0.00	Bill №: 01 - PRELIMINARIES					
1.1.00	GENERAL NOTES <u>Abbreviations</u> m - metre nr - numbers m3 - cubic metres m2 - square metres m - linear metre t - tons inc. - including mm - millimetre SS - stainless steel GI - galvanized iron					
1.2.00	SITE MANAGEMENT COSTS Allow for all on and off site management cost including costs of foreman and assistants, temporary services, telephone, fax, hoardings & similar.	item	1.00			
1.3.00	SIGN BOARD Allow for sign board.	nr	1.00			
1.4.00	CLEAN-UP Allow for clean-up upon completion of works.	item	1.00			
1.5.00	INSURANCE, BONDS, GUARANTEES AND WARRANTIES Insurance as stated in the general conditions.	item	1.00			
1.6.00	SHOP DRAWINGS & AS BUILT DRAWINGS Allow for Shop Drawings during the progress of the project and As-Built Drawings after the completion of the project as stated in the general conditions.	item	1.00			
1.7.00	SAFETY ON SITE Safety on site:- Providing and maintaining adequate safety measures on site for all workers and all authorized visitors on site and protecting adjoining properties and people against falling objects or other with regard to the construction works	item	1.00			
1.8.00	TOTAL OF BILL №: 01 - Carried Over To Summary					

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	AMOUNT
2.0.00	Bill №: 02 - STRUCTURAL METAL WORKS					
2.1.00	<u>GENERAL</u> (a) Rates shall include for: all fabrication work, welding, marking, drilling for bolts incl. those securing timbers, steel plates, bolts, nuts and any type of washer, riveted work, counter sinking and tapping for bolts or machine screws. (b) Rates shall include for fabrication and erection and temporary supports and fixing into position. (c) "Welding" is deemed to be in accordance with the specification and for the material to which it is to be used. Gusset plates, shoe plates, ends, caps, cleats, brackets, stiffeners, bolts, etc., are required to be included to the rate of the associated steel work in which they occur. (d) For the description of materials and workmanship refer to the Specification of works, pricing Preambles and Drawings. (e) Contractor shall submit shop drawings for approval prior to fabrication. (f) Unless specified otherwise, rate shall include for: All shop fabrication work, marking, delivery, unloading, hoisting, erecting and fixing as per detail drawings, All welds & allowance for rolling margin, the weight of welded metal in welded constructions, members of any length, cutting to size and shape and joints in the running length, grinding to a smooth finish, unless otherwise required, Machine drilled bolt, holes, bolts, nuts and washers, cleats, shoe and gusset plates and all other connections, Wire brushing to clean all the steel surfaces (except stainless steel) after fabrication and spray painting with two coats of quick drying metal primer zinc phosphate & two coats of matt anti corrosive paint with final paint, all necessary accessories and preparation and submission of Shop Drawings and As Built Drawings as specified.					
2.2.00	<u>STEEL TRUSS</u> TRUSS TR-X (Rate shall include for applying redoxide coating and white paint on all trusses)					
2.2.01	Steel truss 11.149m span with 25mm x 25mm x 3.2mm thick SHS pipe on top and bottom chord and 10mm steel bar web members	no	8.00			
2.2.02	50x50mm SHS welded to truss	m	41.25			
2.3.00	TOTAL OF BILL №: 02 - Carried Over To Summary					

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	AMOUNT
3.0.00	Bill №: 03 - SUN NET COVER					
3.1.00	<u>GENERAL</u> (a) Rates shall include for: fair edges, dressing over angel fillets, roof sealant, turning into grooves, all other labours, circular edges, nails, screws and other fixings and laps.					
3.2.00	<u>SUNNET COVERING</u>					
3.2.01	Sun net fixed from all sides	m²	459.94			
3.3.00	TOTAL OF BILL №: 03 - Carried Over To Summary					

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	AMOUNT
4.0.00	Bill №: 04- ADDITIONS AND OMMISIONS					
4.1.00	<u>ADDITIONS</u>					
4.1.01	Bill №: 01 - PRELIMINARIES					
4.1.02	Bill №: 02 - STRUCTURAL METAL WORKS					
4.1.03	Bill №: 03 - SUN NET COVER					
	TOTAL					
4.2.00	<u>OMISSIONS</u>					
4.2.01	Bill №: 01 - PRELIMINARIES					
4.2.02	Bill №: 02 - STRUCTURAL METAL WORKS					
4.2.03	Bill №: 03 - SUN NET COVER					
	TOTAL					
4.3.00	TOTAL OF BILL №: 04 - Carried Over To Summary					