## BILL OF QUANTITIES CONSTRUCTION OF WASTE HANDLING FACILITY HA. BAARAH HEALTH CENTER

Item	Description	Unit	Quantity	Rate/ Unit	Rate/Unit	Total Unit Rate Rates per Units	Amount
	BILL No: 01 PRELIMINARIES					- CARGO	
(1)	General Notes  Abbreviations m - meter No - numbers m³ - cubic meter m² - square meter Lm - Linear meter KG - Kilograms incl - including mm - millimeter dia - diameter SS - Stainless Steel						
(1)	GI - Galvanized Iron  Sign Board  Allow for sign board.  INSPECTION TRIPS	no	1.00				
	Arrange inspection trip to PMU team. Each inspection trip takes 2 days.  Contractor has to arrange following for trips:  (a) Air tickets for 2 person: Male'/Hdh. Hanimaadhoo/Male' by air (normal fair),  (b) Speed boat transfer from Hdh. Hanimaadhoo/Ha. Baarah/Hdh. Hanimaadhoo.  (C) Accommodations (2 Air-condition room) per trip.	no	1.00				
	BILL No: 01 PRELIMINARIES TOTAL OF BILL No: 01 - Carried over to summary						
2.1	BILL No: 02 GROUND WORKS  General  (a) Rates shall include for: leveling, grading, trimming, compacting to faces of excavation, keep sides plumb, backfilling, consolidating and disposing surplus soil.  Site Clearing						

(1)	Rates shall include for: leveling, grading, trimming and compacting as specified.  Basement filling Above ground level.	$m^3$	6.74			
	Back Filling up to ground level.	111	0.04			
	GB (200x150mm) C1 (200x200mm)	$m^3$ $m^3$	1.04 0.04			
	TB (250x350mm)	$m^3$	2.98			
- 1	F1 (750x750x200mm)	$m^3$	1.81			
	Excavation for Foundation Pads, Foundation Beams and Tie Beams					
	Excavation  Excavation shall be carried out in all type of materials and by whatever means are necessary accurately to the lines and levels shown in the approved drawing. No blasting of any kind will be permitted. Excavation for foundations and will include timbering of soil faces and dewatering. Excavation quantities are measured to the faces of concrete members. Rates shall include for dewatering, leveling, grading, trimming compacting to faces of excavation, keeping sides plumb, backfilling, consolidating and disposing surplus soil and include for all additional excavation required to place the formwork / shuttering and dewatering the trench for the required days.					
	water tanks carefully.  Rates must includes to reallocate water tank next Prayer room and connect all the pipes and connect electricity.					
	(Sewer, wastewater, freshwater line and inspection chambers).  Rates must included to demolish water tank foundation and clean the debris. also removal of					
	to be remove from site as per site plan before bidding. Rates must include diverting all the pipes laid underground within the new building area	$m^3$	30.00			
	ensure that all necessary works for site clearing are included and on completion of works also includes. Contractor has visit to the site and check ground condition as well as number of trees					

	BILL No: 03				
	<u>CONCRETE</u>				
3.1	<u>General</u>				
	Rates shall include for cleaning, fabrication, placing, the provision for all necessary temporary				
	fixings and supports including tie wire and other supports, laps and wastage, all reinforcement				
	bars except 6 mm dia bars shall be of deformed high strength bars. 6 mm bar shall be round				
	mild steel bars. Binding wire shall be of 1.6 mm or 1.4 mm soft iron wire.				
	Reinforcement bars shall be cleaned before use i.e. should be free from rust, oil, din, or other				
	coatings that reduces bonds, all reinforced bars and binding wires shall be stored under cover				
	of at least 450 mm above the ground, cutting and bending according to approved manner & the				
	approved working drawing, placing and fixing in position and binding should be as per the				
	approved working drawing, laps in the bars shall be staggered, concrete cover for				
	reinforcement shall not less than 50 mm for substructure, 40 mm for columns & side beams				
	and not more than 30 mm for slab and beam bottoms.				
3.2	<u>Lean Concrete</u>				
	Lean concrete shall be 50mm thick & mix ratio shall be 1:3:6 by dry volume. Lean concrete				
	placed at bottom of footing and foundation beam and below plinth for protection according to				
	line and length mentioned in the approved drawing. Quantity measured to the edges of				
	concrete foundation members. Rate shall include of placing any formwork where necessary,				
	batching, mixing, casting in all required items pouring & compacting and curing for 3 days and				
	removal of any formwork include for provision casting of required items & finishing after				
	removal of formwork and additional concrete required to confirm to structural and excavated				
	tolerances and rates shall include supply of all required works				
	tolerances and rates shan include supply of an required works				
(1)	Foundation Pads, 50mm thick	$m^3$	0.13		
7 7	Foundation Beams and Tie Beams, 50mm thick	$m^3$	0.53		
(-)	Townswith Zound and 110 Zound, community				
3.3	Reinforced Concrete				
	In-situ reinforced concrete to:				
	*Add water proofing compound / admixture to concrete mix for walls GL and Roof Slabs				
	rida water probing compound / admixture to concrete mix for wans distinct foot stabs				
3.3 1	Foundation Level				
	F1 (750x750x200mm)	$m^3$	0.78		
	TB (250x350mm)	m <sup>3</sup>	2.31		
	GB (200x150mm)	m <sup>3</sup>	0.65		
	C1 (200x200mm)	m <sup>3</sup>	0.03		
(0)	or (200x200mm)	111	0.12		
337	Ground Floor Level				
	C1 (200x200mm)	$m^3$	0.97		
	RB (200x150mm)	m <sup>3</sup>	0.79		
	75mm Thick RCC Ground Slab	m <sup>3</sup>	2.78		
` ,	50mm Thick Mass Concrete At Hand Washing Area	m <sup>3</sup>	0.07		
	7	m <sup>3</sup>			
	50mm Thick Mass Concrete at Washing Area Lintel beams	m <sup>2</sup>	0.05		
( )			0.31		
` '	100mm Thick RCC Entrance Ramp	$m^3$	0.47		
(8)	100mm Thick RCC Ramp at Autoclaved General Waste Storage	$m^3$	0.46		

5 Lintel & Sill beams 1) Lintel beams and sill beams, Rates includes for concrete, rebar and formworks	m	17.90	
4 Formwork			
(a) 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.			
All materials such as plywood, shutter oils and other items and transportation to work place			
and secure the formwork in highly precise manner guaranteeing straight and smooth concrete			
edges.			
Cutting, fixing, bracing and oiling according to line and length as per approved working			
drawings removal of it after concrete has set without damaging the concrete faces.			
Foundation Level			
) F1 (750x750x200mm)	m <sup>2</sup>	2.76	
) TB (250x350mm)	m <sup>2</sup>	18.52	
) GB (200x150mm) ) C1 (200x200mm)	$m^2$ $m^2$	3.45 1.84	
	111	1.04	
2 Ground Level	_		
) C1 (200x200mm)	m <sup>2</sup>	15.46	
RB (200x150mm) RCC slab for Entrance Ramp area, washing area, hand washing area as per the drawing	m <sup>2</sup> m <sup>2</sup>	10.58 1.69	
Tree stab for Entrance reamp area, washing area, name washing area as per the drawing	111	1.07	
5 Reinforcement			
GENERAL: Rates shall include for cleaning, fabrication, placing, the provision for all necessary			
temporary fixings and supports including tie wire and other supports, laps and wastage, all reinforcement bars except 6 mm dia bars shall be of deformed high strength bars. 6 mm bar			
shall be round mild steel bars. Binding wire shall be of 1.6 mm or 1.4 mm soft iron wire.			
Reinforcement bars shall be cleaned before use i.e. should be free from rust, oil, din, or other			
coatings that reduces bonds, all reinforced bars and binding wires shall be stored under cover			
of at least 450 mm above the ground, cutting and bending according to approved manner & the			
approved working drawing, placing and fixing in position and binding should be as per the			
approved working drawing, laps in the bars shall be staggered, concrete cover for reinforcement shall not less than 50 mm for substructure, 40 mm for columns & side beams			
and not more than 30 mm for slab and beam bottoms.			
(b) All reinforcing bars shall be high strength bars.			
1 Ground Floor			
F1 (750x750x200mm)			
Steel deformed bars, 10mm dia. x 6m	Bars	8.00	
TB (250x200mm)			
) Steel deformed bars, 12mm dia x 6m	Bars	16.00	
Steel ring bars, 6mm dia x 6m	Bars	17.00	

	TOTAL OF BILL No: 03 - Carried over to summary  BILL No: 04  MASONRY AND PLASTERING				
	BILL No: 03 - CONCRETE WORKS				
(1)	Construction of Water tank foundation, including foundation works, Shed with roofing as per the drawings and install water tanks, connect the down pipes of office building, location of new water tank is next of office (east site).	Item	1.00		
	Water Tank area				
	Inspection Chambers (IC) Fabricate and completion of Inspection Chambers as per drawings	Item	2.00		
	Steel ring bars @ 150c/c Both ways, 6mm dia x 6m	Bars	3.00		
	200X200mm beam, end of the ramps. Steel deformed bars, 10mm dia x 6m	Bars	4.00		
	100mm Thick RCC Ground Slab and Entrance Ramps and washing areas. Steel ring bars @ 300c/c Both ways, 6mm dia x 6m	Bars	90.00		
	Steel ring bars, 6mm dia x 6m	Bars	18.00		
	RB (200x150mm) Steel deformed bars, 12mm dia x 6m	Bars	22.00		
	Steel ring bars, 6mm dia x 6m	Bars	8.00		
	C1 (250x250mm) Steel deformed bars, 12mm dia x 6m	Bars	13.00		
	Steel ring bars, 6mm dia x 6m	Bars	6.00		
	GB (200x150mm) Steel deformed bars, 16mm dia x 6m	Bars	8.00		

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	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 leaving holes 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 flashings, bedding				
	frames or plates, building in joists, bearers or similar, temporary supports to openings,				
	templates, reinforcement in walls and for all necessary making good.				
	Bedding mortar (mixing ratio 1:4 i.e. cement: river sand) shall be of OPC & fine aggregate shall				
	be imported river sand shall be approved in grading & clean from any harmful substance.				
	Masonry work shall be done with approved Machine compact cement blocks (300X150X150)				
	with no defects. Lay in line and length as per approved working drawing				
	Block making (mixing ratio 1:4 i.e. cement: river sand) shall be of OPC & Local sand free form				
	salt.				
	floor slabs, cutting or leaving holes 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 flashings, bedding				
	Plastering should be used manufactures sand with Rio fiber and Feb mix chemicals, (mixing				
	ratio 1:4 i.e. cement: river sand) shall be of OPC &Manufactured sand.				
	Rates shall include for: 25mm groove lines on external surfaces as shown on the drawing.				
	Desalinated water shall be used for all purposes if quality of ground water is not drinkable.				
	for floor screeds 1:6 cement: Sand ratio shall be used. Sand shall be OPC & Local sand (Free				
	from salt)				
4.2	Cement block work				
	External and external walls				
	150mm wide machine compress Solid blocks, laid on and incl. 1:5 Cement Mortar, tie rods,				
	compression gap filler, nylon / plastic mesh as specified.				
	Ground Floor (external walls)	$m^2$	105.00		
	Masonry works at Ramp Edges	$m^2$	2.80		
(3)	Masonry works and washing area and Handwashing area	Item	2.00		
4.3	Plastering				
	GENERAL: Interior and Exterior: Plaster All masonry wall have smooth finishing of 20 mm				
	thick cement plastering with mix ratio 1:4 (i.e. cement: River Sand), plastering material shall be				
	of OPC & fine aggregate shall be imported river sand shall be approved in grading & clean from				
	any harmful substance. Plastic net should be provided wherever concrete surface and masonry				
	meets, and cracks are unacceptable. Regular curing up to 7 days must be done.				
	25mm thick cement plastering (2 coat) on external walls and 18mm thick cement plastering on				
	internal walls and concrete surfaces with 1:4 Cement mortar mix as specified incl. wire mesh at				
	joints of concrete surfaces and walls (first, second coats).				
	Interior and exterior wall plastering.	$m^2$	220.00		
4.4	Elecu Coursed				
4.4	Floor Screed				

50mm Thick Cement Floor Screed prior to floor tiling at Autoclave area, (mixing ratio 1:4 i.e. cement: river sand), Infectious Waste Storage, Shredding area, Autoclaved General Waste Storage and Handwashing areas.	m²	33.00		
BILL No: 04 - MASONRY AND PLASTERING				
TOTAL OF BILL No: 04 - Carried over to summary				
BILL No: 05 ROOFING				
<ul> <li>General <ul> <li>(a) Rates shall include for: fair edges, dressing over angel fillets, turning into grooves, all other labours, circular edges, nails, screws and other fixings and laps.</li> <li>(b) Rates shall include to apply Wood preservative to all the surface of timbers (Roof structure).</li> </ul> </li> </ul>				
5.2 Roof Coverings Roofing sheets: Blue scope steel international limited MSP, Total coated thickness minimum 0.47mm thick - Aqua marine or equivalent for Main building and connection area.	m²	60.68		
Capping and Flashings Ridge Capping/ flashing as per drawing: Blue scope steel international limited MSP, Total coated thickness minimum 0.47mm thick- Aqua marine or equivalent Hip Capping (Roof hips): Blue scope steel international limited MSP, Total coated thickness	m	8.20		
minimum 0.47mm thick- Aqua marine or equivalent	m	14.80		
<b>Gutter</b> (a) MSP Color bond flat sheet gutter 200X200mm, Total coated thickness minimum 0.47mm thick, including framing, and supports, straps, brackets, clips, stop ends, overflow, downpipe outlets, mesh flashings and all fixings and fastenings.				
(1) GUTTER: Blue scope steel international MSP- Aqua marine or equivalent for Main building	m	16.40		
5.5 <u>Down Pipes</u>				
(1) 75 mm dia uPVC down pipes including bends, junctions, straps, brackets, clips, roof drain strainer and all fixings. (8 down pipes)	m	17.00		
5.6 Roof Structure				
(1) (a) Rates shall include for: all labour in framing, notching and fitting around projections, pipes, light fittings, hatches, grilles, welding, application of redoxide at welded joints and similar and complete with cleats, packers, wedges and similar and all nails and screws. Also Rates shall include application of two-part epoxy paint on all Steel surfaces including the welded joints.				
(1) 2 nos. of 50 X 100mm GI RHS Ridge beam as per drawing	m	17.00		
(2) 50 X 100mm GI RHS Wall plate on roof beam fixed with 12mm. GI bolt embedded to Roof beam @ 900c/c	m	13.00		
(3) 50 X 100mm GI RHS rafters @ 900 C/C	m	80.00		

(4)	50 X 50mm GI SHS purlin @ 600c/c as per drawing	m	83.00	I		
	Application of two-part epoxy paint on all steel steel surfaces	item	1.00			
(7)	Cement fiber fascia board 12 X 250mm with 2 nos of 25X50 GI RHS section.	m	32.00			
	Roof Insulation 50mm thick Mineral wool installation with both side reflective foil on Fixed to underside of roofing with 12.5X12.5mm plastic mesh, Connection and edges of the foil to be sealed properly with a approved tape from consultant.	$m^2$	60.68			
	BILL No: 05 - ROOFING					
	TOTAL OF BILL No: 05 - Carried over to summary					
	BILL NO: 06 DOORS AND WINDOWS					
6.1	General Aluminum Doors and windows, Fabricate and fix in position the aluminum doors and window frame - aluminum doors and window (white powder coated, 60-80 micron, 1.5mm profile thickness) using recommended material with specified fixtures as shown in approved working drawings and installation should be as per technical specifications. Rates shall include for locks, latches, closures, push plates, pull handles, bolts, kick plates hinges, screws, washer and all door and window hardware and these materials should be of ss steel according to drawing and of superior quality.  (a) All door and window frames and panels shall be as specified in the drawing  (Profiles to be chosen by client, minimum thickness of profile must be minimum 2.5mm).					
6.2	Door / Windows units					
(1)	D1, Minimum 80 Micron Aluminum, Dark sandy grey powder coated Door 1400x2200 mm with panels as per drawings.	no	2.00			
(2)	D2, Minimum 80 Micron Aluminum, Dark sandy grey powder coated Door 800x2200 mm with panels as per drawings.	no	4.00			
(3)	W1, Minimum 80 Micron Aluminum, Dark sandy grey powder coated Door 1000x1150 mm Aluminium window as per drawings.	no	4.00			
	Sink Cupboard at Hand Washing Area Fabrication of Concrete sink cupboard at Hand washing area, 0.9 Meter length and 600mm width as per drawings, Rates shall include, concrete works tiling of all surfaces, installation of Quarts Kitchen Sink 21x18 inch, with an wall mount elbow operated faucet. And Rates shall also include all hydraulic works related to this item. Also rates shall include fixing of timber door panel and shelves.	Item	1.00			
	BILL NO: 06 - DOORS AND WINDOWS					
	TOTAL OF BILL No: 06 - Carried over to summary					
	BILL NO: 07					
	<u>TILING</u>					

	General Prepare surface for approved bedding tiles with reach bedding materials as per the technical specifications & approved working drawings, fix tiles with ct grout in a precise manner to maintain correct alignment, applying tile grout and wiping any excess grout to ensure the required standards of finished works.  Rates shall include for: fixing, bedding, grouting, and pointing materials; making good around pipes, sanitary fixtures, and similar; cleaning down and polishing any other similar works to ensure the required finish.  All tiles shall be homogeneous or equivalent.					
7.2.1	Floor finish 300x300 skid resistant High quality full body homogeneous floor tiles at Autoclave area, Infectious Waste Storage, Shredding area, Autoclaved General Waste Storage, Handwashing area and washing area.	m²	40.52			
	Wall finish 300x600 mm full body homogeneous wall tile, 1.8M Height form FFL, at Autoclave area, Infectious Waste Storage, Shredding area, and Autoclaved General Waste Storage	m²	62.00			
	BILL No: 7 - TILING					
	TOTAL OF BILL No: 7 - Carried over to summary BILL No: 8					
	CEILINGS					
8.1	Interior Ceilings					
	Interior ceiling consist of 6mm Thick Shera board or equivalent cement fiber board suspended ceiling, including framing beading nails and screws. Grid of the frame to be 1200x600 with 50x25mm GI RHS to roof structure at every 3000 mm, Frame and supports shall 50x25 mm, all welding joints and the whole frame shall be coated with two part epoxy paint after installation before fixing cement fiber boards. Rates shall include framing and fixing ceiling boards and sealing all seams with putty before painting including screw holes.					
(1)	Ground floor (Autoclave area, Infectious Waste Storage, Shredding area, and Autoclaved General Waste Storage)	m <sup>2</sup>	30.00			
(1) <b>8.1</b>		m²	30.00 25.00			

	BILL NO: 8 CEILINGS				
	TOTAL OF BILL No:8 - Carried over to summary				
	BILL No: 9 PAINTING				
	<b>General Exterior wall</b> shall be of 1 coat of oil based textured paint and 2 coats of Kansani weather bond paint (oil based) over 1 coat of oil based sealer (white) or equivalent (according to technical specifications or approved drawings). Erection of scaffolding, preparing working platforms, applying sealer and two coats of paint as specified in the working drawings. Removal of scaffolding if any after completion of work. Rates shall include for: the provision, erection and removal of scaffolding, preparation, rubbing down between coats and similar work, the protection and/or masking floors, fittings and similar work, removing and replacing door and window and including soffits and sides of beams.				
	<b>Interior wall</b> shall be of 2-3 coats over 1 coat of water based sealer. Rates includes Erection of scaffolding, preparing working platforms, applying sealer and two coats of paint as specified in the working drawings. Removal of scaffolding if any after completion of work. Rates shall include for: the provision, erection and removal of scaffolding, preparation, rubbing down between coats and similar work, the protection and/or masking floors, fittings and similar work, removing and replacing door and window and including soffits and sides of beams.				
	Exterior & Exterior Ceiling (interior and exterior) shall be of 2 coats of (wood paint over 1 coat of wood primer or equivalent. Erection of scaffolding, preparing working platforms, applying sealer and two coats of paint as specified in the working drawings. Removal of scaffolding if any after completion of work. Rates shall include for the provision and removal of scaffolding, preparation, rubbing down between coats and similar work, the protection and or masking floors fittings and similar work removing and replacing door window furniture. All painting work shall be carried in accordance with the Specifications				
9.2	Wall painting				
(1)	External and Internal Plaster surface of walls	m <sup>2</sup>	218.00		
9.3	Ceiling painting				
	External ceiling, Internal ceiling,	m <sup>2</sup> m <sup>2</sup>	30.00 25.00		
	BILL No: 9 - PAINTING TOTAL OF BILL No: 9 - Carried over to summary				
	BILL No: 10 ELECTRICAL INSTALLATIONS				
	General  (a) Rates shall include for: screws, nails, bolts, nuts, standard cable fixing or supporting clips, brackets, straps, rivets, plugs and all incidental accessories				

<ul> <li>(b) Rates for work in trench shall include for: excavation, maintaining faces of excavations, backfilling, compaction, appropriate cable covers, warning tape and disposal of surplus spoil</li> <li>(c) Rates shall include for electrical conduits, fittings, equipment and similar all fixings to various building surfaces</li> <li>(d) Each Light/ light fixture and its switch is measured as one one point; similarly each fan or each socket outlet is measured as one point;</li> <li>(e) Rates shall include for supply and complete installation</li> </ul>				
10.2 Mains connection				
Main connection: Rates shall include screws, nails, bolts, nuts, standard cable, fixing or supporting clips, brackets, straps, rivets, plugs, and all incidental accessories. Rates shall include electrical conduits, fittings, equipment, and similar items. Three - PHASE CABLE WIRING TO D-BOARD: All necessary work in the trench shall include excavation, maintaining faces of excavations, backfilling, compaction, appropriate cable covers warning tape, and disposal of surplus soil supply and laying of the cable according to Maldives electricity bureau. (16mm2 4-Core Cable, Approved by respective Authorities, GI pipe, warning tape), The main cable is to be connected from Health Center D Board to the waste handling facility, Contractor must upgrade the existing D board to connect Health Canter and the waste handling facility, Contractor Must measure the cable length from the site and additional works required to upgrade existing panel board as per Fenaka Standard to connect 2 building.	no	1.00		
<ul> <li>Electrical Boards         Three phase electrical distribution board (wall embedded) with one Meter: Supply and installation of D-Board. Rates Shall include all required Brackets and other electrical appliance as per drawings and Maldivian Regulations (wall embedded) Meter to be cover with whether proof box. All the light circuit should be one DB Sockets to be one DB.     </li> </ul>	no	1.00		
Electrical wiring Single phase Electrical wiring with copper conductor cable in conduits in walls and in casing on soffits of slab as specified to:  (1) Wiring with 2.5 mm² cable to 1x13 Amp Power points  (2) Wiring with 2.5 mm² cable to 3 phase isolator (40A)  (3) Wiring with 2.5 mm² cable to 1 x 15 Amp Power points  (4) Wiring with 2.5 mm² cable to lights and fan	points points points points	9.00 3.00 5.00 27.00		
Lighting / Fan Ceiling diffusing embedded down light 200mm dia with 21W LED bulb, (Philips) E27, Cool day	no	20.00		
light, (not crystal light or not Stellar bright) Total lumen 1400. or equivalent, (2) LED Emergency light ( 2 hours Battery charge)	no	4.00		
(3) Ceiling Fan, 1200mm dia. USHA or equivalent	no	2.00		
Supply and completion of 300x300mm Ceiling Mounted Heavy duty Exhaust fans (4 nos) KDK or equivalent with pipeline as per the drawings. sound level must be not higher than 50 decibels (dB).	Item	1.00		
0.6 Socket outlets (a) All socket outlets shall be "Legrand" or equivalent.				

(1)	1x13Amp wall Socket outlet with water proof cover, 1200mm above floor level	no	5.00			
	1x13Amp wall Socket outlet with water proof cover, Above Ceiling level for Exhaust Fans	no	4.00			
	Completion of 3 phase isolator (40A), 1200mm above floor level	no	3.00			
	1x13Amp wall Socket outlet with water proof cover, 200mm below ceiling.	no	4.00			
	1x15Amp wall socket outlet with water proof cover	no	5.00			
(0)	1x15/mip wan socket outlet with water proof cover	110	5.00			
10.7	<u>Light switches</u>					
10.7	(a) All light switches shall be "Legrand" or equivalent. Each light should be control by one					
	switch.					
(1)		***	2.00			
	Three gang switch	no	2.00			
	Two gang switch	no	4.00			
	Out door photo cell switch	no	6.00			
(4)	Fan control	no	2.00			
400						
10.8	Earthing					
	Earth pit with resistance less than 2 ohms, 3/4 earth rods must be used and must have clamps					
	at the end, Earth pit should be covered junction with cover.					
(1)	Completion of earth pit with earthing cable and completion of earthing as per the above	Item	1.00			
(1)	requirements.	Item	1.00			
	Fire Fighting					
(1)	CO2 Extinguisher	Item	3.00			
(2)	H20 Extinguisher	Item	3.00			
	BILL No: 10 - ELECTRICAL INSTALLATIONS					1
	TOTAL OF BILL No: 10 - Carried over to summary					
	BILL No: 11					7
	HYDRAULICS & DRAINAGE					
11.1	<u>Hydraulics</u>					
11.1.1	<u>General</u>					
	(a) Rates shall include for excavation, laying pipes and backfilling trenches, maintaining faces					
	of drainpipe trenches and pits, backfilling, disposal of surplus soil, bends, junctions, reducers,					
	expansion joints brackets, joints, straps, hangers, screws, nails and fixing complete, and all					
	joints and other incidental material, All Pipes and fittings area high pressure uPVC pipes					
	fixing complete, including cutting and forming holes; excavating, laying pipes and backfilling					
	trenches.					
	(b) All pipe work shall be uPVC.					
	(b) All pipe work shall be ur vc.					
1117	Cround water gunnly nine work					
	Ground water supply pipe work	T4	1.00			
(1)	Completion of ground water pipe line and Connect to existing water Supply system.	Item	1.00			
44.4.0						
11.1.3	Sanitary fixtures & accessories					
	Sanitary fixtures & Accessories: Sanitary fixtures complete including, piping, brackets, flush					
	pipes, valves, overflows, plugs and washers, as specified.					
	Floor drain with gully & water trap.	no	6.00			

(3)	Wall Mount Faucet , ( Cotto) or equivalent Muslim Shower, ( Cotto) or equivalent with valve for washing area. Ball Valves, ( Cotto) or equivalent	no no No	5.00 1.00 6.00		
	Drainage General (a) Rates shall include for: excavation, maintaining faces of drain pipe trenches and pits, backfilling, disposal of surplus spoil; bends, junctions, reducers, expansion joints and all joints and other incidental materials. (b) All pipe work shall be UPVC				
11.2.2	Pipe work				
(1)	Installation and Complete Connection of Waste disposal pipe 75mm dia UPVC to existing drainage system.	Item	1.00		
	BILL No: 11 - HYDRAULICS & DRAINAGE TOTAL OF BILL No: 11 - Carried over to summary				
(1) (2) (3) (4) (5) (6) (7) (8) (9) (10)	MASONRY AND PLASTERING, Bill no. 04 ROOFING, Bill no. 05 DOORS AND WINDOWS, Bill no. 06 TILING, Bill no. 07 CEILINGS, Bill no. 08				
(1) (2) (3) (4) (5) (6) (7) (8)	GROUND WORKS, Bill no. 02 CONCRETE, Bill no. 03 MASONRY AND PLASTERING, Bill no. 04 ROOFING, Bill no. 05 DOORS AND WINDOWS, Bill no. 06 TILING, Bill no. 07				

(11)	HYDRAULICS & DRAINAGE, Bill no. 10 ELECTRICAL INSTALLATIONS, Bill no. 11 OMISSIONS TOTAL			
	BILL No: 13 - TENDERER'S ADJUSTMENTS			
	TOTAL OF BILL No: 13 - Carried over to summary			