

Annex II- Lot 2

**Bills of Quantities for Civil Works of septic tanks and soak-away wells
in 6 Admin Units in localities of Sinar State**

Lot: 2
Site 2-1: Allakandie

All Prices of items shall include Supplying, Installing, Connecting and testing unless otherwise indicated, the Contractor is required to have approved full coordinated workshop drawings before starting contract activities, and the price shall also include all such works.

The Contractor should install, construct & erect all works according to drawings, specifications & Instructions of the Engineer. The Workmanship and Material to be used shall, unless otherwise Specified, comply with the Latest Editions of the Requirements, Standards, Regulations, Recommendations, Code of Practice (BS, ASTM & Equivalent), and Amendments thereof.

THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS BEFORE COMMENCEMENT OF ANY ACTIVITY FOR CHECK AND APPROVAL

Bill No. (1): Wash Basin for Pesticides Equipment & Percolation Pit Work

Item	Description	Unit	Qty.	Rate	Amount
	<i>Rates shall include but not limited to supply of all materials ,equipments tools, testing commissioning and the installation workmanship as per the drawings and specifications and directions& satisfaction of the Engineer</i>				
1	Provide and install Rectangular Fiberglass Basin. (fine and smooth surface for outer & inner sides) for washing of pesticide Equipment, with all accessories including taps (Germany or European Country), the basin to be consist of six No. layers (2- layers fiberglass [450g/m2], 2-layers fiberglass reinforcement [woven Roving 450g/m2 & 2- layer fiberglass [450g/m2]. External & inner surface to be painted with minimum two coats of epoxy water proof. The holding skeleton of basin to be one unit with the basin, the holding skeleton consist of angles [50x50x5 mm]. The Skeleton Legs to be welded to steel plat 6 mm and fixed to the Concrete platform. All material to be according to the British standers or equivalent & the manufacture to be from a recognized reputable manufacturer	job.	1.00		
2	Provide and lay horizontal & Fix Vertical UPVC pipes (6 bars) (Ø100 mm) from a recognized reputable manufacturer with all fittings and to be laid according to specifications. Rate shall include excavation and backfill and all necessary works related as per drawing, specification and direct by Eng.	ML	4.75		
3	Provide and lay UPVC pipes (6 bars) (Ø50 mm) from a recognized reputable manufacturer with all fittings and to be laid according to specifications (from Wash Basin to Manhole). Rate shall include excavation and backfill and all necessary works related manufacturer all works as per drawings, specification and direction & satisfaction of Eng.	ML	5.50		
4	Provide and fix water supply pipes (Ø25 mm) Black Polythene water pipe from recognized manufacture with all fittings elbow, tee, valve, reduce (from water Source to the Water Tank Position).	ML	35.00		
5	Provide and erect water supply galvanized pipes (Ø25mm) Both water Tank riser & Down Pipes also for the wash basin water supply, Pipes to be from recognized manufacture with all fittings elbow, tee, and valve, reducer, clips,...etc., all works as per drawing, specification and direct by	ML	10.00		
6	Provide and fix in Position galvanized Barbed wire. Preparing post and struts by cut to size and drilling of holes and cuts to receive barbed wire, Erection of post, stretch, fix and tighten barbed wire lines and cross lines & Painting the Posts (measures will be based on the border length) Rates shall include but not limited to supply of all materials (e.g. Post and Strut angles 50x50x6mm, barbed wire, concrete, Paints ...and the like) ,equipments tools, testing commissioning and the installation workmanship as per the drawings and specifications and directions& satisfaction of the	ML	25.00		
7	Excavation & Backfilling Rate shall include digging, Cart away & back filling				
7.1	Excavate percolation pit average depth 3m filled with broken bricks and sand in alternate layers. The drain pipe to be extended in with length of 1.75 m inside the percolation pit, the bricks around the drain pipe to be lay in courses all as per drawings & Satisfaction of Engineer.	job.	1.00		
7.2	Excavation for soil replacement below the reference natural ground level Area (2.20X1.50) with average depth of 100 cm and cart material away to Approved Municipality Locations, then lay and compact selected soil in layers of Max. thickness 200 mm, the last compacted Layer to be in one level with natural ground level, all as per specifications, drawings & Satisfaction of Engineer.	job.	1.00		

Item No.	Description	Unit	Qty.	Rate	Amount
8	Provide, all materials mix and lay in position plain concrete Grade 20 (as per drawings). Cost shall include all materials, form work, labour, sampling, testing, and mix. Design, curing, ...etc.:				
	Provide, all materials mix and lay in position plain concrete Grade 20 with Nominal Steel Mesh Ø 8 mm @ 150 mm c/c both way at mid depth for platform (2.20X1.50 m), Cost shall include all materials, form work, labour, curing, ...etc. All as per specifications, drawings & Satisfaction of Engineer.	job.	1.00		
9	Provide materials and construct one Brick wall manholes of Size 80.0X80.0 cm with invert levels as specified in drawings. The cover for manhole to be concrete with steel angles 50x50/5mm and nominal steel mesh Ø 8 mm @ 150mm/c both way. Rate shall include Excavation, Backfilling, Brickworks, Plastering & Waterproofing Works as per drawings elbow as per drawing, specific and direct by Eng.	No.	1.00		
10	Safety Gate: Provide Manufacture and Fix Rectangular Steel Pipe, in Safety Gate with Frame Section (80x40x1.0) mm & Horizontal and Vertical Grid members of Section (40x20x1.0) mm, gauge heavy duty, factory powder painted red oxide paint before fixing and final paint (colored to be approved by the Engineer), as shown on Drawings. Gate size 1.30X0.90 m	No.	1.00		
11	Provide and install Water tanks (Horizontal type) of capacity 1000 liters with Water pump 0.5 HP (including safety cage for water pump) with all fittings, float, non-return valves, gate valves, drain, overflow, ...etc. Rate shall include the necessary required tank fixing to steel tower by steel flat 25mm as per specification and direct by Eng.	No.	1.00		
12	Provide and fix in Position Water Tank Steel Tower (Base Dimensions 1.2mx1.2m). Rate shall include all material (e.g. Post and Strut angles 75x75x6mm, water tank base plate thickness 6mm, concrete Foundations ...and the like) Rate should include preparation, cutting, size, welding .Painting with anti rust & Final coat and Erection of tower.	No.	1.00		
Total of Bill No. (1) Carried to Summary					
Bill No. (2): Septic Tank, Soak away & Bathroom					
Item	Description	Unit	Qty.	Rate	Amount
1	Excavation & Back filling				
1.1	Excavation for Strip foundation trench of 0.80 Width, in all kinds of soil from the actual surface of soil to the foundation Level (Depth to be decide on site) and net size required by the concrete dimension and Rates shall include but are not limited to the Furnishing all material and to protect nearby existing building and utilities, all to the directions and satisfaction of ENGINEER	M3	7.00		
1.2	Backfilling : provide selected material approved by the engineer in layers not exceeding 15-20 cm ,compacted to a minimum of 95% Modified Proctor Test, as per drawings & specifications, Provide all materials and backfill for floor leveling.	M3	7.00		
2	Concrete Works				
	<i>Rates shall include but are not limited to the following furnishing concrete , all equipment necessary for transferring ,depositing and discharging concrete , all types of forms as required to complete with all tests , struts ,bracing scaffolding or staging and accessories, form oits tapes , reinforcing steel beams, tying wire , spacer , bolsters , joint sealants , water stops , curing compound and sleeves for embedded articles, all to the directions and satisfaction of ENGINEER</i>				
2.1	Provide all materials and lay in position plain concrete under strip	M2	4.50		
2.2	Provide all materials and lay in position plain concrete for floor leveling	M2	3.25		
2.3	Provide all materials and lay in position Reinforced concrete for Strip Foundation 1:2:4 mix, with strength not less than 25 N/mm2 (0.35*0.25 M)	M3	1.00		
2.4	Provide all materials and lay in position Reinforced concrete lintels for doors and window Grill (0.20*0.15 M Beam)	M3	0.10		
2.5	Provide all materials and lay in position Reinforced concrete cover slab (2.35x3.15) of thickness 120mm 1:2:4 mix, with strength not less than 25	M3	0.75		
2.6	Provide all materials and lay in position Reinforced concrete roof beam (200x300 mm)	M3	0.30		

Item No.	Description	Unit	Qty.	Rate	Amount
3	Masonry works				
	<i>Rates shall include but not limited to all necessary formworks, equipments materials cutting around scarps all to the directions and satisfaction of ENGINEER</i>				
3.1	Provide all materials and build 1.5 brick wall with 1:6 C/S mortar for foundation walls up to 30 cm above ground level as per drawings	M2	14.00		
3.2	Provide all materials and build 1.0 brick wall with 1:6 C/S mortar for walls as per drawings & specifications,	M2	26.00		
4	Doors & Window Grills				
	<i>Rates shall include but not limited to providing all material fabrications finishing painting and workmanship as directed by the Engineer</i>				
4.1	Provide all materials and install in position Steel doors Type D1 of steel angles 31.75x 31.75 x 5 mm and steel sheet of thickness 3mm as per	No.	2.00		
4.2	Provide all materials and install in position Steel widow Grill type W1(0.4*0.4m) of steel box section 20x20x1.5mm and lovers of steel flats 50x3 mm	No.	2.00		
5	Finishes Work				
	<i>Rates shall include but not limited to providing all material fabrications finishing painting and workmanship as directed by the Engineer</i>				
5.1	Provide all materials and lay in position min.2cm plaster layer for internal walls with 1:6 C/S mortar	M2	27.00		
5.2	Provide all materials and lay in position min.2cm plaster layer for external	M2	24.00		
5.3	Provide all materials and lay in position 2 layers of under coat (External Talia) and 3 finishing coats (emulsion water based coat) for external walls	M2	24.00		
5.4	Provide all materials and lay in position 2 layers of under coat (internal Talia) and 2 coats of water emulsion paint and one finishing coat of oil paint for internal walls	M2	27.00		
6	Specialties				
	Pavior& Tiles Works				
	<i>Provide & Fix floor tiles according to Drawings, Specifications and Instructions of the Engineer. Rates to include for cutting and bedding and backing in cement/sand mortar (1:6), source Spain or equivalent, grouted in white cement, size and color to be approved by the Engineer, all complete as per Drawings & Specifications. Samples to be submitted for approval of the Engineer with the necessary documents prior to Commencement of Work.</i>				
6.1	Ceramic Tile in Ground Floor Bathroom including skirting tile of height	M2	3.25		
6.2	Provide and apply on R.C slab three coats water proof course of bituminous liquid membrane as per engineer direction. Water proof to be protected with cement screed mortar 1:6 leading to fall with min thickness 30mm.	M2	7.40		
7	Sanitary Work				
	<i>Rates shall include but not limited to providing all material fabrications finishing painting, water proof, workmanship and testing as directed & satisfaction of the Engineer</i>				
7.1	Provide and install Water closet seat (Eastern Type) from recognized manufacturers type Twyford (England) or equivalent from Europe country complete with cistern and all accessories (e.g. Angle valves, shattf, ...etc.)	No.	2.00		
7.2	Provide and install Water Tap from recognized manufacturers (England) or equivalent from Europe country complete with all accessories (e.g. valves, ...etc.) all works as per drawing, specification and direct by Eng.	No.	2.00		
7.3	Provide and install shower rose from recognized manufacturers (England) or equivalent from Europe country complete with all accessories (e.g. valves, ...etc.) all works as per drawing, specification and direct by Eng.	No.	2.00		
7.4	Provide materials and construct one Brick wall Gully trap of Size 30.0X30.0 cm with invert levels as specified in drawings. Provide heavy duty cover for Gully trap Rate shall include Excavation, Backfilling, Brickworks, Plastering & Waterproofing Works as per drawings elbow as per drawing, specific and direct by Eng.	No.	1.00		
7.5	Provide materials and construct one Brick wall manholes of Size 45.0X45.0 cm with invert levels as specified in drawings. Provide heavy duty cover for manhole. Rate shall include Excavation, Backfilling, Brickworks, Plastering & Waterproofing Works as per drawings elbow as per drawing, specific and direct by Eng.	No.	2.00		

Item No.	Description	Unit	Qty.	Rate	Amount
7.6	Provide and lay horizontal & Fix Vertical UPVC pipes (6 bars) (□100 mm) from a recognized reputable manufacturer with all fittings and to be laid according to specifications. Rate shall include excavation and backfill and all necessary works related as per drawing, specification and direct by Eng.	M.L	15.00		
7.7	Provide and fix water supply pipes (□25 mm) Black Polythene water pipe from recognized manufacture with all fittings elbow, tee, valve, reduce (from water Source to Bathroom location).	M.L	65.00		
7.8	Provide and erect water supply pipes PPR from (□19mm) recognized manufacture with all fittings elbow, tee, and valve, reduce all works as per drawing, specification and direct by Eng.	M.L	20.00		
7.9	Provide and install Water tanks of capacity 1000 liters with Water pump 0.5 HP (including safety cage for water pump) with all fittings, float, non-return valves, gate valves, drain, overflow, ...etc. Rate shall include the necessary required tank fixing to R.C slab by steel flat 25mm as per specification and direct by Eng.	No.	1.00		
7.10	Excavation effluent soak-away well internal diameter (net after one brick wall) from grout level to end depth of (2.0m) before lowest summer water table complete with stringer beam cover slab and concrete cover with steel angles 50x50/5mm and nominal steel mesh Ø 8 mm @ 150mm/c both way, and one brick thick wall with mix 1:6 lining to wall with 2.0m internal diameter rate shall include test of water table Constant discharge by using two three phase 10 horse pump for 4 hours + 4 tanker car according to local Municipality all complete to satisfaction of Eng. Recovery test shall be carried out after the constant Discharge test. Until the water level in the well returns approximately to the static level according to the Ssatisfaction of Eng	No.	1.00		
7.11	Rates shall include but not limited to supply of all materials ,equipments tools, testing commissioning and the installation workmanship as per the drawings and specifications and directions& satisfaction of the Engineer Provide and install Fiberglass septic tank (capacity = 45 persons), Septic tank to be consist of TEN No. layers (2- layers fiberglass [450g/m2], 4- layers fiberglass reinforcement [woven Roving 450g/m2 & 4- layer fiberglass [450g/m2]. The External & Internal surfaces to be painted with minimum two coats of epoxy water proof. The Septic tank to be stiffening with steel circular pipe at 0.70 m height & 1.50 m height, three holding Hooks to be welded to the steel circular pipe at 1.5m height. Septic tank top to be reinforced with Heavy steel pipe (80X40X1.5mm) to receive manhole brick walls. All material to be according to the British standers or equivalent & the manufacture to be from a recognized reputable manufacturer.	No.	1.00		
8	Electrical Works				
	<i>Rates shall include but not limited to supply of all materials ,equipments tools, testing commissioning and the installation workmanship as per the drawings and specifications and directions of the Engineer. work shall include laying and fixing of conducts connections out let boxes, conduits, conduits fittings, wires,... etc. that is necessary for complete of work</i>				
8.1	Provide all materials and fix in position wall mounted globe lamps and switches	No.	4.00		
Total of Bill No. (2) Carried to summary					

Summary

No.	Description	Amount
1	(1)Total of Bill No.	
2	(2)Total of Bill No.	
Total Amount		

Lot: 2
Site 2-2: Karkouj

All Prices of items shall include Supplying, Installing, Connecting and testing unless otherwise indicated, the Contractor is required to have approved full coordinated workshop drawings before starting contract activities, and the price shall also include all such works.

The Contractor should install, construct & erect all works according to drawings, specifications & Instructions of the Engineer. The Workmanship and Material to be used shall, unless otherwise Specified, comply with the Latest Editions of the Requirements, Standards, Regulations, Recommendations, Code of Practice (BS, ASTM & Equivalent), and Amendments thereof.

THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS BEFORE COMMENCEMENT OF ANY ACTIVITY FOR CHECK AND APPROVAL

Bill No. (1): Wash Basin for Pesticides Equipment & Percolation Pit Work

Item	Description	Unit	Qty.	Rate	Amount
	<i>Rates shall include but not limited to supply of all materials ,equipments tools, testing commissioning and the installation workmanship as per the drawings and specifications and directions& satisfaction of the Engineer</i>				
1	Provide and install Rectangular Fiberglass Basin. (fine and smooth surface for outer & inner sides) for washing of pesticide Equipment, with all accessories including taps (Germany or European Country), the basin to be consist of six No. layers (2- layers fiberglass [450g/m2], 2-layers fiberglass reinforcement [woven Roving 450g/m2 & 2- layer fiberglass [450g/m2]. External & inner surface to be painted with minimum two coats of epoxy water proof. The holding skeleton of basin to be one unit with the basin, the holding skeleton consist of angles [50x50x5 mm]. The Skeleton Legs to be welded to steel plat 6 mm and fixed to the Concrete platform. All material to be according to the British standers or equivalent & the manufacture to be from a recognized reputable manufacturer	job.	1.00		
2	Provide and lay horizontal & Fix Vertical UPVC pipes (6 bars) (Ø100 mm) from a recognized reputable manufacturer with all fittings and to be laid according to specifications. Rate shall include excavation and backfill and all necessary works related as per drawing, specification and direct by Eng.	ML	4.75		
3	Provide and lay UPVC pipes (6 bars) (Ø50 mm) from a recognized reputable manufacturer with all fittings and to be laid according to specifications (from Wash Basin to Manhole). Rate shall include excavation and backfill and all necessary works related manufacturer all works as per drawings, specification and direction & satisfaction of Eng.	ML	5.50		
4	Provide and fix water supply pipes (Ø25 mm) Black Polythene water pipe from recognized manufacture with all fittings elbow, tee, valve, reduce (from water Source to the Water Tank Position).	ML	30.00		
5	Provide and erect water supply galvanized pipes (Ø25mm) Both water Tank riser & Down Pipes also for the wash basin water supply, Pipes to be from recognized manufacture with all fittings elbow, tee, and valve, reducer, clips,...etc., all works as per drawing, specification and direct by	ML	10.00		
6	Provide and fix in Position galvanized Barbed wire. Preparing post and struts by cut to size and drilling of holes and cuts to receive barbed wire, Erection of post, stretch, fix and tighten barbed wire lines and cross lines & Painting the Posts (measures will be based on the border length) Rates shall include but not limited to supply of all materials (e.g. Post and Strut angles 50x50x6mm, barbed wire, concrete, Paints ...and the like) ,equipments tools, testing commissioning and the installation workmanship as per the drawings and specifications and directions& satisfaction of the	ML	25.00		
7	Excavation & Backfilling Rate shall include digging, Cart away & back filling				
7.1	Excavate percolation pit average depth 3m filled with broken bricks and sand in alternate layers. The drain pipe to be extended in with length of 1.75 m inside the percolation pit, the bricks around the drain pipe to be lay in courses all as per drawings & Satisfaction of Engineer.	job.	1.00		
7.2	Excavation for soil replacement below the reference natural ground level Area (2.20X1.50) with average depth of 100 cm and cart material away to Approved Municipality Locations, then lay and compact selected soil in layers of Max. thickness 200 mm, the last compacted Layer to be in one level with natural ground level, all as per specifications, drawings & Satisfaction of Engineer.	job.	1.00		

Item No.	Description	Unit	Qty.	Rate	Amount
8	Provide, all materials mix and lay in position plain concrete Grade 20 (as per drawings). Cost shall include all materials, form work, labour, sampling, testing, and mix. Design, curing, ...etc.:				
	Provide, all materials mix and lay in position plain concrete Grade 20 with Nominal Steel Mesh Ø 8 mm @ 150 mm c/c both way at mid depth for platform (2.20X1.50 m), Cost shall include all materials, form work, labour, curing, ...etc. All as per specifications, drawings & Satisfaction of Engineer.	job.	1.00		
9	Provide materials and construct one Brick wall manholes of Size 80.0X80.0 cm with invert levels as specified in drawings. The cover for manhole to be concrete with steel angles 50x50/5mm and nominal steel mesh Ø 8 mm @ 150mm/c both way. Rate shall include Excavation, Backfilling, Brickworks, Plastering & Waterproofing Works as per drawings elbow as per drawing, specific and direct by Eng.	No.	1.00		
10	Safety Gate: Provide Manufacture and Fix Rectangular Steel Pipe, in Safety Gate with Frame Section (80x40x1.0) mm & Horizontal and Vertical Grid members of Section (40x20x1.0) mm, gauge heavy duty, factory powder painted red oxide paint before fixing and final paint (colored to be approved by the Engineer), as shown on Drawings. Gate size 1.30X0.90 m	No.	1.00		
11	Provide and install Water tanks (Horizontal type) of capacity 1000 liters with Water pump 0.5 HP (including safety cage for water pump) with all fittings, float, non-return valves, gate valves, drain, overflow, ...etc. Rate shall include the necessary required tank fixing to steel tower by steel flat 25mm as per specification and direct by Eng.	No.	1.00		
12	Provide and fix in Position Water Tank Steel Tower (Base Dimensions 1.2mx1.2m). Rate shall include all material (e.g. Post and Strut angles 75x75x6mm, water tank base plate thickness 6mm, concrete Foundations ...and the like) Rate should include preparation, cutting, size, welding .Painting with anti rust & Final coat and Erection of tower.	No.	1.00		
Total of Bill No. (1) Carried to Summary					

Bill No. (2): Septic Tank, Soak away & Bathroom

Item	Description	Unit	Qty.	Rate	Amount
1	Excavation & Back filling				
1.1	Excavation for Strip foundation trench of 0.80 Width, in all kinds of soil from the actual surface of soil to the foundation Level (Depth to be decide on site) and net size required by the concrete dimension and Rates shall include but are not limited to the Furnishing all material and to protect nearby existing building and utilities, all to the directions and satisfaction of ENGINEER	M3	7.00		
1.2	Backfilling : provide selected material approved by the engineer in layers not exceeding 15-20 cm ,compacted to a minimum of 95% Modified Proctor Test, as per drawings & specifications, Provide all materials and backfill for floor leveling.	M3	7.00		
2	Concrete Works				
	<i>Rates shall include but are not limited to the following furnishing concrete , all equipment necessary for transferring ,depositing and discharging concrete , all types of forms as required to complete with all tests , structs ,bracing scaffolding or staging and accessories, form oits tapes , reinforcing steel beams, tying wire , spacer , bolsters , joint sealants , water stops , curing compound and sleeves for embedded articles, all to the directions and satisfaction of ENGINEER</i>				
2.1	Provide all materials and lay in position plain concrete under strip	M2	4.50		
2.2	Provide all materials and lay in position plain concrete for floor leveling	M2	3.25		
2.3	Provide all materials and lay in position Reinforced concrete for Strip Foundation 1:2:4 mix, with strength not less than 25 N/mm2 (0.35*0.25 M)	M3	1.00		
2.4	Provide all materials and lay in position Reinforced concrete lintels for doors and window Grill (0.20*0.15 M Beam)	M3	0.10		
2.5	Provide all materials and lay in position Reinforced concrete cover slab (2.35x3.15) of thickness 120mm 1:2:4 mix, with strength not less than 25	M3	0.75		
2.6	Provide all materials and lay in position Reinforced concrete roof beam (200x300 mm)	M3	0.30		

Item No.	Description	Unit	Qty.	Rate	Amount
3	Masonry works				
	<i>Rates shall include but not limited to all necessary formworks, equipments materials cutting around scarps all to the directions and satisfaction of ENGINEER</i>				
3.1	Provide all materials and build 1.5 brick wall with 1:6 C/S mortar for foundation walls up to 30 cm above ground level as per drawings	M2	14.00		
3.2	Provide all materials and build 1.0 brick wall with 1:6 C/S mortar for walls as per drawings & specifications,	M2	26.00		
4	Doors & Window Grills				
	<i>Rates shall include but not limited to providing all material fabrications finishing painting and workmanship as directed by the Engineer</i>				
4.1	Provide all materials and install in position Steel doors Type D1 of steel angles 31.75x 31.75 x 5 mm and steel sheet of thickness 3mm as per	No.	2.00		
4.2	Provide all materials and install in position Steel widow Grill type W1(0.4*0.4m) of steel box section 20x20x1.5mm and lovers of steel flats 50x3 mm	No.	2.00		
5	Finishes Work				
	<i>Rates shall include but not limited to providing all material fabrications finishing painting and workmanship as directed by the Engineer</i>				
5.1	Provide all materials and lay in position min.2cm plaster layer for internal walls with 1:6 C/S mortar	M2	27.00		
5.2	Provide all materials and lay in position min.2cm plaster layer for external	M2	24.00		
5.3	Provide all materials and lay in position 2 layers of under coat (External Talia) and 3 finishing coats (emulsion water based coat) for external walls	M2	24.00		
5.4	Provide all materials and lay in position 2 layers of under coat (internal Talia) and 2 coats of water emulsion paint and one finishing coat of oil paint for internal walls	M2	27.00		
6	Specialties				
	Pavior& Tiles Works				
	<i>Provide & Fix floor tiles according to Drawings, Specifications and Instructions of the Engineer. Rates to include for cutting and bedding and backing in cement/sand mortar (1:6), source Spain or equivalent, grouted in white cement, size and color to be approved by the Engineer, all complete as per Drawings & Specifications. Samples to be submitted for approval of the Engineer with the necessary documents prior to Commencement of Work.</i>				
6.1	Ceramic Tile in Ground Floor Bathroom including skirting tile of height	M2	3.25		
6.2	Provide and apply on R.C slab three coats water proof course of bituminous liquid membrane as per engineer direction. Water proof to be protected with cement screed mortar 1:6 leading to fall with min thickness 30mm.	M2	7.40		
7	Sanitary Work				
	<i>Rates shall include but not limited to providing all material fabrications finishing painting, water proof, workmanship and testing as directed & satisfaction of the Engineer</i>				
7.1	Provide and install Water closet seat (Eastern Type) from recognized manufacturers type Twyford (England) or equivalent from Europe country complete with cistern and all accessories (e.g. Angle valves, shattf, ...etc.)	No.	2.00		
7.2	Provide and install Water Tap from recognized manufacturers (England) or equivalent from Europe country complete with all accessories (e.g. valves, ...etc.) all works as per drawing, specification and direct by Eng.	No.	2.00		
7.3	Provide and install shower rose from recognized manufacturers (England) or equivalent from Europe country complete with all accessories (e.g. valves, ...etc.) all works as per drawing, specification and direct by Eng.	No.	2.00		
7.4	Provide materials and construct one Brick wall Gully trap of Size 30.0X30.0 cm with invert levels as specified in drawings. Provide heavy duty cover for Gully trap Rate shall include Excavation, Backfilling, Brickworks, Plastering & Waterproofing Works as per drawings elbow as per drawing, specific and direct by Eng.	No.	1.00		
7.5	Provide materials and construct one Brick wall manholes of Size 45.0X45.0 cm with invert levels as specified in drawings. Provide heavy duty cover for manhole. Rate shall include Excavation, Backfilling, Brickworks, Plastering & Waterproofing Works as per drawings elbow as per drawing, specific and direct by Eng.	No.	2.00		

Item No.	Description	Unit	Qty.	Rate	Amount
7.6	Provide and lay horizontal & Fix Vertical UPVC pipes (6 bars) (□100 mm) from a recognized reputable manufacturer with all fittings and to be laid according to specifications. Rate shall include excavation and backfill and all necessary works related as per drawing, specification and direct by Eng.	M.L	15.00		
7.7	Provide and fix water supply pipes (□25 mm) Black Polythene water pipe from recognized manufacture with all fittings elbow, tee, valve, reduce (from water Source to Bathroom location).	M.L	45.00		
7.8	Provide and erect water supply pipes PPR from (□19mm) recognized manufacture with all fittings elbow, tee, and valve, reduce all works as per drawing, specification and direct by Eng.	M.L	20.00		
7.9	Provide and install Water tanks of capacity 1000 liters with Water pump 0.5 HP (including safety cage for water pump) with all fittings, float, non-return valves, gate valves, drain, overflow, ...etc. Rate shall include the necessary required tank fixing to R.C slab by steel flat 25mm as per specification and direct by Eng.	No.	1.00		
7.10	Excavation effluent soak-away well internal diameter (net after one brick wall) from grout level to end depth of (2.0m) before lowest summer water table complete with stringer beam cover slab and concrete cover with steel angles 50x50/5mm and nominal steel mesh Ø 8 mm @ 150mm/c both way, and one brick thick wall with mix 1:6 lining to wall with 2.0m internal diameter rate shall include test of water table Constant discharge by using two three phase 10 horse pump for 4 hours + 4 tanker car according to local Municipality all complete to satisfaction of Eng. Recovery test shall be carried out after the constant Discharge test. Until the water level in the well returns approximately to the static level according to the Ssatisfaction of Eng	No.	1.00		
7.11	Rates shall include but not limited to supply of all materials ,equipments tools, testing commissioning and the installation workmanship as per the drawings and specifications and directions& satisfaction of the Engineer Provide and install Fiberglass septic tank (capacity = 45 persons), Septic tank to be consist of TEN No. layers (2- layers fiberglass [450g/m2], 4- layers fiberglass reinforcement [woven Roving 450g/m2 & 4- layer fiberglass [450g/m2]. The External & Internal surfaces to be painted with minimum two coats of epoxy water proof. The Septic tank to be stiffening with steel circular pipe at 0.70 m height & 1.50 m height, three holding Hooks to be welded to the steel circular pipe at 1.5m height. Septic tank top to be reinforced with Heavy steel pipe (80X40X1.5mm) to receive manhole brick walls. All material to be according to the British standers or equivalent & the manufacture to be from a recognized reputable manufacturer.	No.	1.00		
8	Electrical Works				
	<i>Rates shall include but not limited to supply of all materials ,equipments tools, testing commissioning and the installation workmanship as per the drawings and specifications and directions of the Engineer. work shall include laying and fixing of conducts connections out let boxes, conduits, conduits fittings, wires,... etc. that is necessary for complete of work</i>				
8.1	Provide all materials and fix in position wall mounted globe lamps and switches	No.	4.00		
Total of Bill No. (2) Carried to summary					

Summary

No.	Description	Amount
1	(1)Total of Bill No.	
2	(2)Total of Bill No.	
Total Amount		

Lot: 2
Site 2-3: Reefie Alsokie

All Prices of items shall include Supplying, Installing, Connecting and testing unless otherwise indicated, the Contractor is required to have approved full coordinated workshop drawings before starting contract activities, and the price shall also include all such works.

The Contractor should install, construct & erect all works according to drawings, specifications & Instructions of the Engineer. The Workmanship and Material to be used shall, unless otherwise Specified, comply with the Latest Editions of the Requirements, Standards, Regulations, Recommendations, Code of Practice (BS, ASTM & Equivalent), and Amendments thereof.

THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS BEFORE COMMENCEMENT OF ANY ACTIVITY FOR CHECK AND APPROVAL

Bill No. (1): Wash Basin for Pesticides Equipment & Percolation Pit Work

Item	Description	Unit	Qty.	Rate	Amount
	<i>Rates shall include but not limited to supply of all materials ,equipments tools, testing commissioning and the installation workmanship as per the drawings and specifications and directions& satisfaction of the Engineer</i>				
1	Provide and install Rectangular Fiberglass Basin. (fine and smooth surface for outer & inner sides) for washing of pesticide Equipment, with all accessories including taps (Germany or European Country), the basin to be consist of six No. layers (2- layers fiberglass [450g/m2], 2-layers fiberglass reinforcement [woven Roving 450g/m2 & 2- layer fiberglass [450g/m2]. External & inner surface to be painted with minimum two coats of epoxy water proof. The holding skeleton of basin to be one unit with the basin, the holding skeleton consist of angles [50x50x5 mm]. The Skeleton Legs to be welded to steel plat 6 mm and fixed to the Concrete platform. All material to be according to the British standers or equivalent & the manufacture to be from a recognized reputable manufacturer	job.	1.00		
2	Provide and lay horizontal & Fix Vertical UPVC pipes (6 bars) (Ø100 mm) from a recognized reputable manufacturer with all fittings and to be laid according to specifications. Rate shall include excavation and backfill and all necessary works related as per drawing, specification and direct by Eng.	ML	4.75		
3	Provide and lay UPVC pipes (6 bars) (Ø50 mm) from a recognized reputable manufacturer with all fittings and to be laid according to specifications (from Wash Basin to Manhole). Rate shall include excavation and backfill and all necessary works related manufacturer all works as per drawings, specification and direction & satisfaction of Eng.	ML	5.50		
4	Provide and fix water supply pipes (Ø25 mm) Black Polythene water pipe from recognized manufacture with all fittings elbow, tee, valve, reduce (from water Source to the Water Tank Position).	ML	20.00		
5	Provide and erect water supply galvanized pipes (Ø25mm) Both water Tank riser & Down Pipes also for the wash basin water supply, Pipes to be from recognized manufacture with all fittings elbow, tee, and valve, reducer, clips,...etc., all works as per drawing, specification and direct by	ML	10.00		
6	Provide and fix in Position galvanized Barbed wire. Preparing post and struts by cut to size and drilling of holes and cuts to receive barbed wire, Erection of post, stretch, fix and tighten barbed wire lines and cross lines & Painting the Posts (measures will be based on the border length) Rates shall include but not limited to supply of all materials (e.g. Post and Strut angles 50x50x6mm, barbed wire, concrete, Paints ...and the like) ,equipments tools, testing commissioning and the installation workmanship as per the drawings and specifications and directions& satisfaction of the	ML	25.00		
7	Excavation & Backfilling Rate shall include digging, Cart away & back filling				
7.1	Excavate percolation pit average depth 3m filled with broken bricks and sand in alternate layers. The drain pipe to be extended in with length of 1.75 m inside the percolation pit, the bricks around the drain pipe to be lay in courses all as per drawings & Satisfaction of Engineer.	job.	1.00		
7.2	Excavation for soil replacement below the reference natural ground level Area (2.20X1.50) with average depth of 100 cm and cart material away to Approved Municipality Locations, then lay and compact selected soil in layers of Max. thickness 200 mm, the last compacted Layer to be in one level with natural ground level, all as per specifications, drawings & Satisfaction of Engineer.	job.	1.00		

Item No.	Description	Unit	Qty.	Rate	Amount
8	Provide, all materials mix and lay in position plain concrete Grade 20 (as per drawings). Cost shall include all materials, form work, labour, sampling, testing, and mix. Design, curing, ...etc.:				
	Provide, all materials mix and lay in position plain concrete Grade 20 with Nominal Steel Mesh Ø 8 mm @ 150 mm c/c both way at mid depth for platform (2.20X1.50 m), Cost shall include all materials, form work, labour, curing, ...etc. All as per specifications, drawings & Satisfaction of Engineer.	job.	1.00		
9	Provide materials and construct one Brick wall manholes of Size 80.0X80.0 cm with invert levels as specified in drawings. The cover for manhole to be concrete with steel angles 50x50/5mm and nominal steel mesh Ø 8 mm @ 150mm/c both way. Rate shall include Excavation, Backfilling, Brickworks, Plastering & Waterproofing Works as per drawings elbow as per drawing, specific and direct by Eng.	No.	1.00		
10	Safety Gate: Provide Manufacture and Fix Rectangular Steel Pipe, in Safety Gate with Frame Section (80x40x1.0) mm & Horizontal and Vertical Grid members of Section (40x20x1.0) mm, gauge heavy duty, factory powder painted red oxide paint before fixing and final paint (colored to be approved by the Engineer), as shown on Drawings. Gate size 1.30X0.90 m	No.	1.00		
11	Provide and install Water tanks (Horizontal type) of capacity 1000 liters with Water pump 0.5 HP (including safety cage for water pump) with all fittings, float, non-return valves, gate valves, drain, overflow, ...etc. Rate shall include the necessary required tank fixing to steel tower by steel flat 25mm as per specification and direct by Eng.	No.	1.00		
12	Provide and fix in Position Water Tank Steel Tower (Base Dimensions 1.2mx1.2m). Rate shall include all material (e.g. Post and Strut angles 75x75x6mm, water tank base plate thickness 6mm, concrete Foundations ...and the like) Rate should include preparation, cutting, size, welding .Painting with anti rust & Final coat and Erection of tower.	No.	1.00		
Total of Bill No. (1) Carried to Summary					
Bill No. (2): Septic Tank, Soak away & Bathroom					
Item	Description	Unit	Qty.	Rate	Amount
1	Excavation & Back filling				
1.1	Excavation for Strip foundation trench of 0.80 Width, in all kinds of soil from the actual surface of soil to the foundation Level (Depth to be decide on site) and net size required by the concrete dimension and Rates shall include but are not limited to the Furnishing all material and to protect nearby existing building and utilities, all to the directions and satisfaction of ENGINEER	M3	7.00		
1.2	Backfilling : provide selected material approved by the engineer in layers not exceeding 15-20 cm ,compacted to a minimum of 95% Modified Proctor Test, as per drawings & specifications, Provide all materials and backfill for floor leveling.	M3	7.00		
2	Concrete Works				
	<i>Rates shall include but are not limited to the following furnishing concrete , all equipment necessary for transferring ,depositing and discharging concrete , all types of forms as required to complete with all tests , struts ,bracing scaffolding or staging and accessories, form oits tapes , reinforcing steel beams, tying wire , spacer , bolsters , joint sealants , water stops , curing compound and sleeves for embedded articles, all to the directions and satisfaction of ENGINEER</i>				
2.1	Provide all materials and lay in position plain concrete under strip	M2	4.50		
2.2	Provide all materials and lay in position plain concrete for floor leveling	M2	3.25		
2.3	Provide all materials and lay in position Reinforced concrete for Strip Foundation 1:2:4 mix, with strength not less than 25 N/mm2 (0.35*0.25 M)	M3	1.00		
2.4	Provide all materials and lay in position Reinforced concrete lintels for doors and window Grill (0.20*0.15 M Beam)	M3	0.10		
2.5	Provide all materials and lay in position Reinforced concrete cover slab (2.35x3.15) of thickness 120mm 1:2:4 mix, with strength not less than 25	M3	0.75		
2.6	Provide all materials and lay in position Reinforced concrete roof beam (200x300 mm)	M3	0.30		

Item No.	Description	Unit	Qty.	Rate	Amount
3	Masonry works				
	<i>Rates shall include but not limited to all necessary formworks, equipments materials cutting around scarps all to the directions and satisfaction of ENGINEER</i>				
3.1	Provide all materials and build 1.5 brick wall with 1:6 C/S mortar for foundation walls up to 30 cm above ground level as per drawings	M2	14.00		
3.2	Provide all materials and build 1.0 brick wall with 1:6 C/S mortar for walls as per drawings & specifications,	M2	26.00		
4	Doors & Window Grills				
	<i>Rates shall include but not limited to providing all material fabrications finishing painting and workmanship as directed by the Engineer</i>				
4.1	Provide all materials and install in position Steel doors Type D1 of steel angles 31.75x 31.75 x 5 mm and steel sheet of thickness 3mm as per	No.	2.00		
4.2	Provide all materials and install in position Steel widow Grill type W1(0.4*0.4m) of steel box section 20x20x1.5mm and lovers of steel flats 50x3 mm	No.	2.00		
5	Finishes Work				
	<i>Rates shall include but not limited to providing all material fabrications finishing painting and workmanship as directed by the Engineer</i>				
5.1	Provide all materials and lay in position min.2cm plaster layer for internal walls with 1:6 C/S mortar	M2	27.00		
5.2	Provide all materials and lay in position min.2cm plaster layer for external	M2	24.00		
5.3	Provide all materials and lay in position 2 layers of under coat (External Talia) and 3 finishing coats (emulsion water based coat) for external walls	M2	24.00		
5.4	Provide all materials and lay in position 2 layers of under coat (internal Talia) and 2 coats of water emulsion paint and one finishing coat of oil paint for internal walls	M2	27.00		
6	Specialties				
	Pavior& Tiles Works				
	<i>Provide & Fix floor tiles according to Drawings, Specifications and Instructions of the Engineer. Rates to include for cutting and bedding and backing in cement/sand mortar (1:6), source Spain or equivalent, grouted in white cement, size and color to be approved by the Engineer, all complete as per Drawings & Specifications. Samples to be submitted for approval of the Engineer with the necessary documents prior to Commencement of Work.</i>				
6.1	Ceramic Tile in Ground Floor Bathroom including skirting tile of height	M2	3.25		
6.2	Provide and apply on R.C slab three coats water proof course of bituminous liquid membrane as per engineer direction. Water proof to be protected with cement screed mortar 1:6 leading to fall with min thickness 30mm.	M2	7.40		
7	Sanitary Work				
	<i>Rates shall include but not limited to providing all material fabrications finishing painting, water proof, workmanship and testing as directed & satisfaction of the Engineer</i>				
7.1	Provide and install Water closet seat (Eastern Type) from recognized manufacturers type Twyford (England) or equivalent from Europe country complete with cistern and all accessories (e.g. Angle valves, shattf, ...etc.)	No.	2.00		
7.2	Provide and install Water Tap from recognized manufacturers (England) or equivalent from Europe country complete with all accessories (e.g. valves, ...etc.) all works as per drawing, specification and direct by Eng.	No.	2.00		
7.3	Provide and install shower rose from recognized manufacturers (England) or equivalent from Europe country complete with all accessories (e.g. valves, ...etc.) all works as per drawing, specification and direct by Eng.	No.	2.00		
7.4	Provide materials and construct one Brick wall Gully trap of Size 30.0X30.0 cm with invert levels as specified in drawings. Provide heavy duty cover for Gully trap Rate shall include Excavation, Backfilling, Brickworks, Plastering & Waterproofing Works as per drawings elbow as per drawing, specific and direct by Eng.	No.	1.00		
7.5	Provide materials and construct one Brick wall manholes of Size 45.0X45.0 cm with invert levels as specified in drawings. Provide heavy duty cover for manhole. Rate shall include Excavation, Backfilling, Brickworks, Plastering & Waterproofing Works as per drawings elbow as per drawing, specific and direct by Eng.	No.	2.00		

Item No.	Description	Unit	Qty.	Rate	Amount
7.6	Provide and lay horizontal & Fix Vertical UPVC pipes (6 bars) (□100 mm) from a recognized reputable manufacturer with all fittings and to be laid according to specifications. Rate shall include excavation and backfill and all necessary works related as per drawing, specification and direct by Eng.	M.L	15.00		
7.7	Provide and fix water supply pipes (□25 mm) Black Polythene water pipe from recognized manufacture with all fittings elbow, tee, valve, reduce (from water Source to Bathroom location).	M.L	25.00		
7.8	Provide and erect water supply pipes PPR from (□19mm) recognized manufacture with all fittings elbow, tee, and valve, reduce all works as per drawing, specification and direct by Eng.	M.L	20.00		
7.9	Provide and install Water tanks of capacity 1000 liters with Water pump 0.5 HP (including safety cage for water pump) with all fittings, float, non-return valves, gate valves, drain, overflow, ...etc. Rate shall include the necessary required tank fixing to R.C slab by steel flat 25mm as per specification and direct by Eng.	No.	1.00		
7.10	Excavation effluent soak-away well internal diameter (net after one brick wall) from grout level to end depth of (2.0m) before lowest summer water table complete with stringer beam cover slab and concrete cover with steel angles 50x50/5mm and nominal steel mesh Ø 8 mm @ 150mm/c both way, and one brick thick wall with mix 1:6 lining to wall with 2.0m internal diameter rate shall include test of water table Constant discharge by using two three phase 10 horse pump for 4 hours + 4 tanker car according to local Municipality all complete to satisfaction of Eng. Recovery test shall be carried out after the constant Discharge test. Until the water level in the well returns approximately to the static level according to the Ssatisfaction of Eng	No.	1.00		
7.11	Rates shall include but not limited to supply of all materials ,equipments tools, testing commissioning and the installation workmanship as per the drawings and specifications and directions& satisfaction of the Engineer Provide and install Fiberglass septic tank (capacity = 45 persons), Septic tank to be consist of TEN No. layers (2- layers fiberglass [450g/m2], 4- layers fiberglass reinforcement [woven Roving 450g/m2 & 4- layer fiberglass [450g/m2]. The External & Internal surfaces to be painted with minimum two coats of epoxy water proof. The Septic tank to be stiffening with steel circular pipe at 0.70 m height & 1.50 m height, three holding Hooks to be welded to the steel circular pipe at 1.5m height. Septic tank top to be reinforced with Heavy steel pipe (80X40X1.5mm) to receive manhole brick walls. All material to be according to the British standers or equivalent & the manufacture to be from a recognized reputable manufacturer.	No.	1.00		
8	Electrical Works				
	<i>Rates shall include but not limited to supply of all materials ,equipments tools, testing commissioning and the installation workmanship as per the drawings and specifications and directions of the Engineer. work shall include laying and fixing of conducts connections out let boxes, conduits, conduits fittings, wires,... etc. that is necessary for complete of work</i>				
8.1	Provide all materials and fix in position wall mounted globe lamps and switches	No.	4.00		
Total of Bill No. (2) Carried to summary					

Summary

No.	Description	Amount
1	(1)Total of Bill No.	
2	(2)Total of Bill No.	
Total Amount		

Lot: 2
Site 2-4: Alsokie city

All Prices of items shall include Supplying, Installing, Connecting and testing unless otherwise indicated, the Contractor is required to have approved full coordinated workshop drawings before starting contract activities, and the price shall also include all such works.

The Contractor should install, construct & erect all works according to drawings, specifications & Instructions of the Engineer. The Workmanship and Material to be used shall, unless otherwise Specified, comply with the Latest Editions of the Requirements, Standards, Regulations, Recommendations, Code of Practice (BS, ASTM & Equivalent), and Amendments thereof.

THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS BEFORE COMMENCEMENT OF ANY ACTIVITY FOR CHECK AND APPROVAL

Bill No. (1): Wash Basin for Pesticides Equipment & Percolation Pit Work

Item	Description	Unit	Qty.	Rate	Amount
	<i>Rates shall include but not limited to supply of all materials ,equipments tools, testing commissioning and the installation workmanship as per the drawings and specifications and directions& satisfaction of the Engineer</i>				
1	Provide and install Rectangular Fiberglass Basin. (fine and smooth surface for outer & inner sides) for washing of pesticide Equipment, with all accessories including taps (Germany or European Country), the basin to be consist of six No. layers (2- layers fiberglass [450g/m2], 2-layers fiberglass reinforcement [woven Roving 450g/m2 & 2- layer fiberglass [450g/m2]. External & inner surface to be painted with minimum two coats of epoxy water proof. The holding skeleton of basin to be one unit with the basin, the holding skeleton consist of angles [50x50x5 mm]. The Skeleton Legs to be welded to steel plat 6 mm and fixed to the Concrete platform. All material to be according to the British standers or equivalent & the manufacture to be from a recognized reputable manufacturer	job.	1.00		
2	Provide and lay horizontal & Fix Vertical UPVC pipes (6 bars) (Ø100 mm) from a recognized reputable manufacturer with all fittings and to be laid according to specifications. Rate shall include excavation and backfill and all necessary works related as per drawing, specification and direct by Eng.	ML	4.75		
3	Provide and lay UPVC pipes (6 bars) (Ø50 mm) from a recognized reputable manufacturer with all fittings and to be laid according to specifications (from Wash Basin to Manhole). Rate shall include excavation and backfill and all necessary works related manufacturer all works as per drawings, specification and direction & satisfaction of Eng.	ML	5.50		
4	Provide and fix water supply pipes (Ø25 mm) Black Polythene water pipe from recognized manufacture with all fittings elbow, tee, valve, reduce (from water Source to the Water Tank Position).	ML	25.00		
5	Provide and erect water supply galvanized pipes (Ø25mm) Both water Tank riser & Down Pipes also for the wash basin water supply, Pipes to be from recognized manufacture with all fittings elbow, tee, and valve, reducer, clips,...etc., all works as per drawing, specification and direct by	ML	10.00		
6	Provide and fix in Position galvanized Barbed wire. Preparing post and struts by cut to size and drilling of holes and cuts to receive barbed wire, Erection of post, stretch, fix and tighten barbed wire lines and cross lines & Painting the Posts (measures will be based on the border length) Rates shall include but not limited to supply of all materials (e.g. Post and Strut angles 50x50x6mm, barbed wire, concrete, Paints ...and the like) ,equipments tools, testing commissioning and the installation workmanship as per the drawings and specifications and directions& satisfaction of the	ML	25.00		
7	Excavation & Backfilling Rate shall include digging, Cart away & back filling				
7.1	Excavate percolation pit average depth 3m filled with broken bricks and sand in alternate layers. The drain pipe to be extended in with length of 1.75 m inside the percolation pit, the bricks around the drain pipe to be lay in courses all as per drawings & Satisfaction of Engineer.	job.	1.00		
7.2	Excavation for soil replacement below the reference natural ground level Area (2.20X1.50) with average depth of 100 cm and cart material away to Approved Municipality Locations, then lay and compact selected soil in layers of Max. thickness 200 mm, the last compacted Layer to be in one level with natural ground level, all as per specifications, drawings & Satisfaction of Engineer.	job.	1.00		

Item No.	Description	Unit	Qty.	Rate	Amount
8	Provide, all materials mix and lay in position plain concrete Grade 20 (as per drawings). Cost shall include all materials, form work, labour, sampling, testing, and mix. Design, curing, ...etc.:				
	Provide, all materials mix and lay in position plain concrete Grade 20 with Nominal Steel Mesh Ø 8 mm @ 150 mm c/c both way at mid depth for platform (2.20X1.50 m), Cost shall include all materials, form work, labour, curing, ...etc. All as per specifications, drawings & Satisfaction of Engineer.	job.	1.00		
9	Provide materials and construct one Brick wall manholes of Size 80.0X80.0 cm with invert levels as specified in drawings. The cover for manhole to be concrete with steel angles 50x50/5mm and nominal steel mesh Ø 8 mm @ 150mm/c both way. Rate shall include Excavation, Backfilling, Brickworks, Plastering & Waterproofing Works as per drawings elbow as per drawing, specific and direct by Eng.	No.	1.00		
10	Safety Gate: Provide Manufacture and Fix Rectangular Steel Pipe, in Safety Gate with Frame Section (80x40x1.0) mm & Horizontal and Vertical Grid members of Section (40x20x1.0) mm, gauge heavy duty, factory powder painted red oxide paint before fixing and final paint (colored to be approved by the Engineer), as shown on Drawings. Gate size 1.30X0.90 m	No.	1.00		
11	Provide and install Water tanks (Horizontal type) of capacity 1000 liters with Water pump 0.5 HP (including safety cage for water pump) with all fittings, float, non-return valves, gate valves, drain, overflow, ...etc. Rate shall include the necessary required tank fixing to steel tower by steel flat 25mm as per specification and direct by Eng.	No.	1.00		
12	Provide and fix in Position Water Tank Steel Tower (Base Dimensions 1.2mx1.2m). Rate shall include all material (e.g. Post and Strut angles 75x75x6mm, water tank base plate thickness 6mm, concrete Foundations ...and the like) Rate should include preparation, cutting, size, welding .Painting with anti rust & Final coat and Erection of tower.	No.	1.00		
Total of Bill No. (1) Carried to Summary					
Bill No. (2): Septic Tank, Soak away & Bathroom					
Item	Description	Unit	Qty.	Rate	Amount
1	Excavation & Back filling				
1.1	Excavation for Strip foundation trench of 0.80 Width, in all kinds of soil from the actual surface of soil to the foundation Level (Depth to be decide on site) and net size required by the concrete dimension and Rates shall include but are not limited to the Furnishing all material and to protect nearby existing building and utilities, all to the directions and satisfaction of ENGINEER	M3	7.00		
1.2	Backfilling : provide selected material approved by the engineer in layers not exceeding 15-20 cm ,compacted to a minimum of 95% Modified Proctor Test, as per drawings & specifications, Provide all materials and backfill for floor leveling.	M3	7.00		
2	Concrete Works				
	<i>Rates shall include but are not limited to the following furnishing concrete , all equipment necessary for transferring ,depositing and discharging concrete , all types of forms as required to complete with all tests , structs ,bracing scaffolding or staging and accessories, form oits tapes , reinforcing steel beams, tying wire , spacer , bolsters , joint sealants , water stops , curing compound and sleeves for embedded articles, all to the directions and satisfaction of ENGINEER</i>				
2.1	Provide all materials and lay in position plain concrete under strip	M2	4.50		
2.2	Provide all materials and lay in position plain concrete for floor leveling	M2	3.25		
2.3	Provide all materials and lay in position Reinforced concrete for Strip Foundation 1:2:4 mix, with strength not less than 25 N/mm2 (0.35*0.25 M)	M3	1.00		
2.4	Provide all materials and lay in position Reinforced concrete lintels for doors and window Grill (0.20*0.15 M Beam)	M3	0.10		
2.5	Provide all materials and lay in position Reinforced concrete cover slab (2.35x3.15) of thickness 120mm 1:2:4 mix, with strength not less than 25	M3	0.75		
2.6	Provide all materials and lay in position Reinforced concrete roof beam (200x300 mm)	M3	0.30		

Item No.	Description	Unit	Qty.	Rate	Amount
3	Masonry works				
	<i>Rates shall include but not limited to all necessary formworks, equipments materials cutting around scarps all to the directions and satisfaction of ENGINEER</i>				
3.1	Provide all materials and build 1.5 brick wall with 1:6 C/S mortar for foundation walls up to 30 cm above ground level as per drawings	M2	14.00		
3.2	Provide all materials and build 1.0 brick wall with 1:6 C/S mortar for walls as per drawings & specifications,	M2	26.00		
4	Doors & Window Grills				
	<i>Rates shall include but not limited to providing all material fabrications finishing painting and workmanship as directed by the Engineer</i>				
4.1	Provide all materials and install in position Steel doors Type D1 of steel angles 31.75x 31.75 x 5 mm and steel sheet of thickness 3mm as per	No.	2.00		
4.2	Provide all materials and install in position Steel widow Grill type W1(0.4*0.4m) of steel box section 20x20x1.5mm and lovers of steel flats 50x3 mm	No.	2.00		
5	Finishes Work				
	<i>Rates shall include but not limited to providing all material fabrications finishing painting and workmanship as directed by the Engineer</i>				
5.1	Provide all materials and lay in position min.2cm plaster layer for internal walls with 1:6 C/S mortar	M2	27.00		
5.2	Provide all materials and lay in position min.2cm plaster layer for external	M2	24.00		
5.3	Provide all materials and lay in position 2 layers of under coat (External Talia) and 3 finishing coats (emulsion water based coat) for external walls	M2	24.00		
5.4	Provide all materials and lay in position 2 layers of under coat (internal Talia) and 2 coats of water emulsion paint and one finishing coat of oil paint for internal walls	M2	27.00		
6	Specialties				
	Pavior& Tiles Works				
	<i>Provide & Fix floor tiles according to Drawings, Specifications and Instructions of the Engineer. Rates to include for cutting and bedding and backing in cement/sand mortar (1:6), source Spain or equivalent, grouted in white cement, size and color to be approved by the Engineer, all complete as per Drawings & Specifications. Samples to be submitted for approval of the Engineer with the necessary documents prior to Commencement of Work.</i>				
6.1	Ceramic Tile in Ground Floor Bathroom including skirting tile of height	M2	3.25		
6.2	Provide and apply on R.C slab three coats water proof course of bituminous liquid membrane as per engineer direction. Water proof to be protected with cement screed mortar 1:6 leading to fall with min thickness 30mm.	M2	7.40		
7	Sanitary Work				
	<i>Rates shall include but not limited to providing all material fabrications finishing painting, water proof, workmanship and testing as directed & satisfaction of the Engineer</i>				
7.1	Provide and install Water closet seat (Eastern Type) from recognized manufacturers type Twyford (England) or equivalent from Europe country complete with cistern and all accessories (e.g. Angle valves, shattf, ...etc.)	No.	2.00		
7.2	Provide and install Water Tap from recognized manufacturers (England) or equivalent from Europe country complete with all accessories (e.g. valves, ...etc.) all works as per drawing, specification and direct by Eng.	No.	2.00		
7.3	Provide and install shower rose from recognized manufacturers (England) or equivalent from Europe country complete with all accessories (e.g. valves, ...etc.) all works as per drawing, specification and direct by Eng.	No.	2.00		
7.4	Provide materials and construct one Brick wall Gully trap of Size 30.0X30.0 cm with invert levels as specified in drawings. Provide heavy duty cover for Gully trap Rate shall include Excavation, Backfilling, Brickworks, Plastering & Waterproofing Works as per drawings elbow as per drawing, specific and direct by Eng.	No.	1.00		
7.5	Provide materials and construct one Brick wall manholes of Size 45.0X45.0 cm with invert levels as specified in drawings. Provide heavy duty cover for manhole. Rate shall include Excavation, Backfilling, Brickworks, Plastering & Waterproofing Works as per drawings elbow as per drawing, specific and direct by Eng.	No.	2.00		

Item No.	Description	Unit	Qty.	Rate	Amount
7.6	Provide and lay horizontal & Fix Vertical UPVC pipes (6 bars) (□100 mm) from a recognized reputable manufacturer with all fittings and to be laid according to specifications. Rate shall include excavation and backfill and all necessary works related as per drawing, specification and direct by Eng.	M.L	15.00		
7.7	Provide and fix water supply pipes (□25 mm) Black Polythene water pipe from recognized manufacture with all fittings elbow, tee, valve, reduce (from water Source to Bathroom location).	M.L	30.00		
7.8	Provide and erect water supply pipes PPR from (□19mm) recognized manufacture with all fittings elbow, tee, and valve, reduce all works as per drawing, specification and direct by Eng.	M.L	20.00		
7.9	Provide and install Water tanks of capacity 1000 liters with Water pump 0.5 HP (including safety cage for water pump) with all fittings, float, non-return valves, gate valves, drain, overflow, ...etc. Rate shall include the necessary required tank fixing to R.C slab by steel flat 25mm as per specification and direct by Eng.	No.	1.00		
7.10	Excavation effluent soak-away well internal diameter (net after one brick wall) from grout level to end depth of (2.0m) before lowest summer water table complete with stringer beam cover slab and concrete cover with steel angles 50x50/5mm and nominal steel mesh Ø 8 mm @ 150mm/c both way, and one brick thick wall with mix 1:6 lining to wall with 2.0m internal diameter rate shall include test of water table Constant discharge by using two three phase 10 horse pump for 4 hours + 4 tanker car according to local Municipality all complete to satisfaction of Eng. Recovery test shall be carried out after the constant Discharge test. Until the water level in the well returns approximately to the static level according to the Ssatisfaction of Eng	No.	1.00		
7.11	Rates shall include but not limited to supply of all materials ,equipments tools, testing commissioning and the installation workmanship as per the drawings and specifications and directions& satisfaction of the Engineer Provide and install Fiberglass septic tank (capacity = 45 persons), Septic tank to be consist of TEN No. layers (2- layers fiberglass [450g/m2], 4- layers fiberglass reinforcement [woven Roving 450g/m2 & 4- layer fiberglass [450g/m2]. The External & Internal surfaces to be painted with minimum two coats of epoxy water proof. The Septic tank to be stiffening with steel circular pipe at 0.70 m height & 1.50 m height, three holding Hooks to be welded to the steel circular pipe at 1.5m height. Septic tank top to be reinforced with Heavy steel pipe (80X40X1.5mm) to receive manhole brick walls. All material to be according to the British standers or equivalent & the manufacture to be from a recognized reputable manufacturer.	No.	1.00		
8	Electrical Works				
	<i>Rates shall include but not limited to supply of all materials ,equipments tools, testing commissioning and the installation workmanship as per the drawings and specifications and directions of the Engineer. work shall include laying and fixing of conducts connections out let boxes, conduits, conduits fittings, wires,... etc. that is necessary for complete of work</i>				
8.1	Provide all materials and fix in position wall mounted globe lamps and switches	No.	4.00		
Total of Bill No. (2) Carried to summary					

Summary

No.	Description	Amount
1	(1)Total of Bill No.	
2	(2)Total of Bill No.	
Total Amount		

Lot: 2
Site 2-5: Aldinder city

All Prices of items shall include Supplying, Installing, Connecting and testing unless otherwise indicated, the Contractor is required to have approved full coordinated workshop drawings before starting contract activities, and the price shall also include all such works.

The Contractor should install, construct & erect all works according to drawings, specifications & Instructions of the Engineer. The Workmanship and Material to be used shall, unless otherwise Specified, comply with the Latest Editions of the Requirements, Standards, Regulations, Recommendations, Code of Practice (BS, ASTM & Equivalent), and Amendments thereof.

THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS BEFORE COMMENCEMENT OF ANY ACTIVITY FOR CHECK AND APPROVAL

Bill No. (1): Wash Basin for Pesticides Equipment & Percolation Pit Work

Item	Description	Unit	Qty.	Rate	Amount
	<i>Rates shall include but not limited to supply of all materials ,equipments tools, testing commissioning and the installation workmanship as per the drawings and specifications and directions& satisfaction of the Engineer</i>				
1	Provide and install Rectangular Fiberglass Basin. (fine and smooth surface for outer & inner sides) for washing of pesticide Equipment, with all accessories including taps (Germany or European Country), the basin to be consist of six No. layers (2- layers fiberglass [450g/m2], 2-layers fiberglass reinforcement [woven Roving 450g/m2 & 2- layer fiberglass [450g/m2]. External & inner surface to be painted with minimum two coats of epoxy water proof. The holding skeleton of basin to be one unit with the basin, the holding skeleton consist of angles [50x50x5 mm]. The Skeleton Legs to be welded to steel plat 6 mm and fixed to the Concrete platform. All material to be according to the British standers or equivalent & the manufacture to be from a recognized reputable manufacturer	job.	1.00		
2	Provide and lay horizontal & Fix Vertical UPVC pipes (6 bars) (Ø100 mm) from a recognized reputable manufacturer with all fittings and to be laid according to specifications. Rate shall include excavation and backfill and all necessary works related as per drawing, specification and direct by Eng.	ML	4.75		
3	Provide and lay UPVC pipes (6 bars) (Ø50 mm) from a recognized reputable manufacturer with all fittings and to be laid according to specifications (from Wash Basin to Manhole). Rate shall include excavation and backfill and all necessary works related manufacturer all works as per drawings, specification and direction & satisfaction of Eng.	ML	5.50		
4	Provide and fix water supply pipes (Ø25 mm) Black Polythene water pipe from recognized manufacture with all fittings elbow, tee, valve, reduce (from water Source to the Water Tank Position).	ML	35.00		
5	Provide and erect water supply galvanized pipes (Ø25mm) Both water Tank riser & Down Pipes also for the wash basin water supply, Pipes to be from recognized manufacture with all fittings elbow, tee, and valve, reducer, clips,...etc., all works as per drawing, specification and direct by	ML	10.00		
6	Provide and fix in Position galvanized Barbed wire. Preparing post and struts by cut to size and drilling of holes and cuts to receive barbed wire, Erection of post, stretch, fix and tighten barbed wire lines and cross lines & Painting the Posts (measures will be based on the border length) Rates shall include but not limited to supply of all materials (e.g. Post and Strut angles 50x50x6mm, barbed wire, concrete, Paints ...and the like) ,equipments tools, testing commissioning and the installation workmanship as per the drawings and specifications and directions& satisfaction of the	ML	25.00		
7	Excavation & Backfilling Rate shall include digging, Cart away & back filling				
7.1	Excavate percolation pit average depth 3m filled with broken bricks and sand in alternate layers. The drain pipe to be extended in with length of 1.75 m inside the percolation pit, the bricks around the drain pipe to be lay in courses all as per drawings & Satisfaction of Engineer.	job.	1.00		
7.2	Excavation for soil replacement below the reference natural ground level Area (2.20X1.50) with average depth of 100 cm and cart material away to Approved Municipality Locations, then lay and compact selected soil in layers of Max. thickness 200 mm, the last compacted Layer to be in one level with natural ground level, all as per specifications, drawings & Satisfaction of Engineer.	job.	1.00		

Item No.	Description	Unit	Qty.	Rate	Amount
8	Provide, all materials mix and lay in position plain concrete Grade 20 (as per drawings). Cost shall include all materials, form work, labour, sampling, testing, and mix. Design, curing, ...etc.:				
	Provide, all materials mix and lay in position plain concrete Grade 20 with Nominal Steel Mesh Ø 8 mm @ 150 mm c/c both way at mid depth for platform (2.20X1.50 m), Cost shall include all materials, form work, labour, curing, ...etc. All as per specifications, drawings & Satisfaction of Engineer.	job.	1.00		
9	Provide materials and construct one Brick wall manholes of Size 80.0X80.0 cm with invert levels as specified in drawings. The cover for manhole to be concrete with steel angles 50x50/5mm and nominal steel mesh Ø 8 mm @ 150mm/c both way. Rate shall include Excavation, Backfilling, Brickworks, Plastering & Waterproofing Works as per drawings elbow as per drawing, specific and direct by Eng.	No.	1.00		
10	Safety Gate: Provide Manufacture and Fix Rectangular Steel Pipe, in Safety Gate with Frame Section (80x40x1.0) mm & Horizontal and Vertical Grid members of Section (40x20x1.0) mm, gauge heavy duty, factory powder painted red oxide paint before fixing and final paint (colored to be approved by the Engineer), as shown on Drawings. Gate size 1.30X0.90 m	No.	1.00		
11	Provide and install Water tanks (Horizontal type) of capacity 1000 liters with Water pump 0.5 HP (including safety cage for water pump) with all fittings, float, non-return valves, gate valves, drain, overflow, ...etc. Rate shall include the necessary required tank fixing to steel tower by steel flat 25mm as per specification and direct by Eng.	No.	1.00		
12	Provide and fix in Position Water Tank Steel Tower (Base Dimensions 1.2mx1.2m). Rate shall include all material (e.g. Post and Strut angles 75x75x6mm, water tank base plate thickness 6mm, concrete Foundations ...and the like) Rate should include preparation, cutting, size, welding .Painting with anti rust & Final coat and Erection of tower.	No.	1.00		
Total of Bill No. (1) Carried to Summary					
Bill No. (2): Septic Tank, Soak away & Bathroom					
Item	Description	Unit	Qty.	Rate	Amount
1	Excavation & Back filling				
1.1	Excavation for Strip foundation trench of 0.80 Width, in all kinds of soil from the actual surface of soil to the foundation Level (Depth to be decide on site) and net size required by the concrete dimension and Rates shall include but are not limited to the Furnishing all material and to protect nearby existing building and utilities, all to the directions and satisfaction of ENGINEER	M3	7.00		
1.2	Backfilling : provide selected material approved by the engineer in layers not exceeding 15-20 cm ,compacted to a minimum of 95% Modified Proctor Test, as per drawings & specifications, Provide all materials and backfill for floor leveling.	M3	7.00		
2	Concrete Works				
	<i>Rates shall include but are not limited to the following furnishing concrete , all equipment necessary for transferring ,depositing and discharging concrete , all types of forms as required to complete with all tests , structs ,bracing scaffolding or staging and accessories, form oits tapes , reinforcing steel beams, tying wire , spacer , bolsters , joint sealants , water stops , curing compound and sleeves for embedded articles, all to the directions and satisfaction of ENGINEER</i>				
2.1	Provide all materials and lay in position plain concrete under strip	M2	4.50		
2.2	Provide all materials and lay in position plain concrete for floor leveling	M2	3.25		
2.3	Provide all materials and lay in position Reinforced concrete for Strip Foundation 1:2:4 mix, with strength not less than 25 N/mm2 (0.35*0.25 M)	M3	1.00		
2.4	Provide all materials and lay in position Reinforced concrete lintels for doors and window Grill (0.20*0.15 M Beam)	M3	0.10		
2.5	Provide all materials and lay in position Reinforced concrete cover slab (2.35x3.15) of thickness 120mm 1:2:4 mix, with strength not less than 25	M3	0.75		
2.6	Provide all materials and lay in position Reinforced concrete roof beam (200x300 mm)	M3	0.30		

Item No.	Description	Unit	Qty.	Rate	Amount
3	Masonry works				
	<i>Rates shall include but not limited to all necessary formworks, equipments materials cutting around scarps all to the directions and satisfaction of ENGINEER</i>				
3.1	Provide all materials and build 1.5 brick wall with 1:6 C/S mortar for foundation walls up to 30 cm above ground level as per drawings	M2	14.00		
3.2	Provide all materials and build 1.0 brick wall with 1:6 C/S mortar for walls as per drawings & specifications,	M2	26.00		
4	Doors & Window Grills				
	<i>Rates shall include but not limited to providing all material fabrications finishing painting and workmanship as directed by the Engineer</i>				
4.1	Provide all materials and install in position Steel doors Type D1 of steel angles 31.75x 31.75 x 5 mm and steel sheet of thickness 3mm as per	No.	2.00		
4.2	Provide all materials and install in position Steel widow Grill type W1(0.4*0.4m) of steel box section 20x20x1.5mm and lovers of steel flats 50x3 mm	No.	2.00		
5	Finishes Work				
	<i>Rates shall include but not limited to providing all material fabrications finishing painting and workmanship as directed by the Engineer</i>				
5.1	Provide all materials and lay in position min.2cm plaster layer for internal walls with 1:6 C/S mortar	M2	27.00		
5.2	Provide all materials and lay in position min.2cm plaster layer for external	M2	24.00		
5.3	Provide all materials and lay in position 2 layers of under coat (External Talia) and 3 finishing coats (emulsion water based coat) for external walls	M2	24.00		
5.4	Provide all materials and lay in position 2 layers of under coat (internal Talia) and 2 coats of water emulsion paint and one finishing coat of oil paint for internal walls	M2	27.00		
6	Specialties				
	Pavior& Tiles Works				
	<i>Provide & Fix floor tiles according to Drawings, Specifications and Instructions of the Engineer. Rates to include for cutting and bedding and backing in cement/sand mortar (1:6), source Spain or equivalent, grouted in white cement, size and color to be approved by the Engineer, all complete as per Drawings & Specifications. Samples to be submitted for approval of the Engineer with the necessary documents prior to Commencement of Work.</i>				
6.1	Ceramic Tile in Ground Floor Bathroom including skirting tile of height	M2	3.25		
6.2	Provide and apply on R.C slab three coats water proof course of bituminous liquid membrane as per engineer direction. Water proof to be protected with cement screed mortar 1:6 leading to fall with min thickness 30mm.	M2	7.40		
7	Sanitary Work				
	<i>Rates shall include but not limited to providing all material fabrications finishing painting, water proof, workmanship and testing as directed & satisfaction of the Engineer</i>				
7.1	Provide and install Water closet seat (Eastern Type) from recognized manufacturers type Twyford (England) or equivalent from Europe country complete with cistern and all accessories (e.g. Angle valves, shattf, ...etc.)	No.	2.00		
7.2	Provide and install Water Tap from recognized manufacturers (England) or equivalent from Europe country complete with all accessories (e.g. valves, ...etc.) all works as per drawing, specification and direct by Eng.	No.	2.00		
7.3	Provide and install shower rose from recognized manufacturers (England) or equivalent from Europe country complete with all accessories (e.g. valves, ...etc.) all works as per drawing, specification and direct by Eng.	No.	2.00		
7.4	Provide materials and construct one Brick wall Gully trap of Size 30.0X30.0 cm with invert levels as specified in drawings. Provide heavy duty cover for Gully trap Rate shall include Excavation, Backfilling, Brickworks, Plastering & Waterproofing Works as per drawings elbow as per drawing, specific and direct by Eng.	No.	1.00		
7.5	Provide materials and construct one Brick wall manholes of Size 45.0X45.0 cm with invert levels as specified in drawings. Provide heavy duty cover for manhole. Rate shall include Excavation, Backfilling, Brickworks, Plastering & Waterproofing Works as per drawings elbow as per drawing, specific and direct by Eng.	No.	2.00		

Item No.	Description	Unit	Qty.	Rate	Amount
7.6	Provide and lay horizontal & Fix Vertical UPVC pipes (6 bars) (□100 mm) from a recognized reputable manufacturer with all fittings and to be laid according to specifications. Rate shall include excavation and backfill and all necessary works related as per drawing, specification and direct by Eng.	M.L	15.00		
7.7	Provide and fix water supply pipes (□25 mm) Black Polythene water pipe from recognized manufacture with all fittings elbow, tee, valve, reduce (from water Source to Bathroom location).	M.L	30.00		
7.8	Provide and erect water supply pipes PPR from (□19mm) recognized manufacture with all fittings elbow, tee, and valve, reduce all works as per drawing, specification and direct by Eng.	M.L	20.00		
7.9	Provide and install Water tanks of capacity 1000 liters with Water pump 0.5 HP (including safety cage for water pump) with all fittings, float, non-return valves, gate valves, drain, overflow, ...etc. Rate shall include the necessary required tank fixing to R.C slab by steel flat 25mm as per specification and direct by Eng.	No.	1.00		
7.10	Excavation effluent soak-away well internal diameter (net after one brick wall) from grout level to end depth of (2.0m) before lowest summer water table complete with stringer beam cover slab and concrete cover with steel angles 50x50/5mm and nominal steel mesh Ø 8 mm @ 150mm/c both way, and one brick thick wall with mix 1:6 lining to wall with 2.0m internal diameter rate shall include test of water table Constant discharge by using two three phase 10 horse pump for 4 hours + 4 tanker car according to local Municipality all complete to satisfaction of Eng. Recovery test shall be carried out after the constant Discharge test. Until the water level in the well returns approximately to the static level according to the 5satisfaction of Eng	No.	1.00		
7.11	Rates shall include but not limited to supply of all materials ,equipments tools, testing commissioning and the installation workmanship as per the drawings and specifications and directions& satisfaction of the Engineer Provide and install Fiberglass septic tank (capacity = 45 persons), Septic tank to be consist of TEN No. layers (2- layers fiberglass [450g/m2], 4- layers fiberglass reinforcement [woven Roving 450g/m2 & 4- layer fiberglass [450g/m2]. The External & Internal surfaces to be painted with minimum two coats of epoxy water proof. The Septic tank to be stiffening with steel circular pipe at 0.70 m height & 1.50 m height, three holding Hooks to be welded to the steel circular pipe at 1.5m height. Septic tank top to be reinforced with Heavy steel pipe (80X40X1.5mm) to receive manhole brick walls. All material to be according to the British standers or equivalent & the manufacture to be from a recognized reputable manufacturer.	No.	1.00		
8	Electrical Works				
	<i>Rates shall include but not limited to supply of all materials ,equipments tools, testing commissioning and the installation workmanship as per the drawings and specifications and directions of the Engineer. work shall include laying and fixing of conducts connections out let boxes, conduits, conduits fittings, wires,... etc. that is necessary for complete of work</i>				
8.1	Provide all materials and fix in position wall mounted globe lamps and switches	No.	4.00		
Total of Bill No. (2) Carried to summary					

Summary

No.	Description	Amount
1	(1)Total of Bill No.	
2	(2)Total of Bill No.	
Total Amount		

Lot: 2
Site 2-6: East Aldinder

All Prices of items shall include Supplying, Installing, Connecting and testing unless otherwise indicated, the Contractor is required to have approved full coordinated workshop drawings before starting contract activities, and the price shall also include all such works.

The Contractor should install, construct & erect all works according to drawings, specifications & Instructions of the Engineer. The Workmanship and Material to be used shall, unless otherwise Specified, comply with the Latest Editions of the Requirements, Standards, Regulations, Recommendations, Code of Practice (BS, ASTM & Equivalent), and Amendments thereof.

THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS BEFORE COMMENCEMENT OF ANY ACTIVITY FOR CHECK AND APPROVAL

Bill No. (1): Wash Basin for Pesticides Equipment & Percolation Pit Work

Item	Description	Unit	Qty.	Rate	Amount
	<i>Rates shall include but not limited to supply of all materials ,equipments tools, testing commissioning and the installation workmanship as per the drawings and specifications and directions& satisfaction of the Engineer</i>				
1	Provide and install Rectangular Fiberglass Basin. (fine and smooth surface for outer & inner sides) for washing of pesticide Equipment, with all accessories including taps (Germany or European Country), the basin to be consist of six No. layers (2- layers fiberglass [450g/m2], 2-layers fiberglass reinforcement [woven Roving 450g/m2 & 2- layer fiberglass [450g/m2]. External & inner surface to be painted with minimum two coats of epoxy water proof. The holding skeleton of basin to be one unit with the basin, the holding skeleton consist of angles [50x50x5 mm]. The Skeleton Legs to be welded to steel plat 6 mm and fixed to the Concrete platform. All material to be according to the British standers or equivalent & the manufacture to be from a recognized reputable manufacturer	job.	1.00		
2	Provide and lay horizontal & Fix Vertical UPVC pipes (6 bars) (Ø100 mm) from a recognized reputable manufacturer with all fittings and to be laid according to specifications. Rate shall include excavation and backfill and all necessary works related as per drawing, specification and direct by Eng.	ML	4.75		
3	Provide and lay UPVC pipes (6 bars) (Ø50 mm) from a recognized reputable manufacturer with all fittings and to be laid according to specifications (from Wash Basin to Manhole). Rate shall include excavation and backfill and all necessary works related manufacturer all works as per drawings, specification and direction & satisfaction of Eng.	ML	5.50		
4	Provide and fix water supply pipes (Ø25 mm) Black Polythene water pipe from recognized manufacture with all fittings elbow, tee, valve, reduce (from water Source to the Water Tank Position).	ML	45.00		
5	Provide and erect water supply galvanized pipes (Ø25mm) Both water Tank riser & Down Pipes also for the wash basin water supply, Pipes to be from recognized manufacture with all fittings elbow, tee, and valve, reducer, clips,...etc., all works as per drawing, specification and direct by	ML	10.00		
6	Provide and fix in Position galvanized Barbed wire. Preparing post and struts by cut to size and drilling of holes and cuts to receive barbed wire, Erection of post, stretch, fix and tighten barbed wire lines and cross lines & Painting the Posts (measures will be based on the border length) Rates shall include but not limited to supply of all materials (e.g. Post and Strut angles 50x50x6mm, barbed wire, concrete, Paints ...and the like) ,equipments tools, testing commissioning and the installation workmanship as per the drawings and specifications and directions& satisfaction of the	ML	25.00		
7	Excavation & Backfilling Rate shall include digging, Cart away & back filling				
7.1	Excavate percolation pit average depth 3m filled with broken bricks and sand in alternate layers. The drain pipe to be extended in with length of 1.75 m inside the percolation pit, the bricks around the drain pipe to be lay in courses all as per drawings & Satisfaction of Engineer.	job.	1.00		
7.2	Excavation for soil replacement below the reference natural ground level Area (2.20X1.50) with average depth of 100 cm and cart material away to Approved Municipality Locations, then lay and compact selected soil in layers of Max. thickness 200 mm, the last compacted Layer to be in one level with natural ground level, all as per specifications, drawings & Satisfaction of Engineer.	job.	1.00		

Item No.	Description	Unit	Qty.	Rate	Amount
8	Provide, all materials mix and lay in position plain concrete Grade 20 (as per drawings). Cost shall include all materials, form work, labour, sampling, testing, and mix. Design, curing, ...etc.:				
	Provide, all materials mix and lay in position plain concrete Grade 20 with Nominal Steel Mesh Ø 8 mm @ 150 mm c/c both way at mid depth for platform (2.20X1.50 m), Cost shall include all materials, form work, labour, curing, ...etc. All as per specifications, drawings & Satisfaction of Engineer.	job.	1.00		
9	Provide materials and construct one Brick wall manholes of Size 80.0X80.0 cm with invert levels as specified in drawings. The cover for manhole to be concrete with steel angles 50x50/5mm and nominal steel mesh Ø 8 mm @ 150mm/c both way. Rate shall include Excavation, Backfilling, Brickworks, Plastering & Waterproofing Works as per drawings elbow as per drawing, specific and direct by Eng.	No.	1.00		
10	Safety Gate: Provide Manufacture and Fix Rectangular Steel Pipe, in Safety Gate with Frame Section (80x40x1.0) mm & Horizontal and Vertical Grid members of Section (40x20x1.0) mm, gauge heavy duty, factory powder painted red oxide paint before fixing and final paint (colored to be approved by the Engineer), as shown on Drawings. Gate size 1.30X0.90 m	No.	1.00		
11	Provide and install Water tanks (Horizontal type) of capacity 1000 liters with Water pump 0.5 HP (including safety cage for water pump) with all fittings, float, non-return valves, gate valves, drain, overflow, ...etc. Rate shall include the necessary required tank fixing to steel tower by steel flat 25mm as per specification and direct by Eng.	No.	1.00		
12	Provide and fix in Position Water Tank Steel Tower (Base Dimensions 1.2mx1.2m). Rate shall include all material (e.g. Post and Strut angles 75x75x6mm, water tank base plate thickness 6mm, concrete Foundations ...and the like) Rate should include preparation, cutting, size, welding .Painting with anti rust & Final coat and Erection of tower.	No.	1.00		
Total of Bill No. (1) Carried to Summary					
Bill No. (2): Septic Tank, Soak away & Bathroom					
Item	Description	Unit	Qty.	Rate	Amount
1	Excavation & Back filling				
1.1	Excavation for Strip foundation trench of 0.80 Width, in all kinds of soil from the actual surface of soil to the foundation Level (Depth to be decide on site) and net size required by the concrete dimension and Rates shall include but are not limited to the Furnishing all material and to protect nearby existing building and utilities, all to the directions and satisfaction of ENGINEER	M3	7.00		
1.2	Backfilling : provide selected material approved by the engineer in layers not exceeding 15-20 cm ,compacted to a minimum of 95% Modified Proctor Test, as per drawings & specifications, Provide all materials and backfill for floor leveling.	M3	7.00		
2	Concrete Works				
	<i>Rates shall include but are not limited to the following furnishing concrete , all equipment necessary for transferring ,depositing and discharging concrete , all types of forms as required to complete with all tests , struts ,bracing scaffolding or staging and accessories, form oits tapes , reinforcing steel beams, tying wire , spacer , bolsters , joint sealants , water stops , curing compound and sleeves for embedded articles, all to the directions and satisfaction of ENGINEER</i>				
2.1	Provide all materials and lay in position plain concrete under strip	M2	4.50		
2.2	Provide all materials and lay in position plain concrete for floor leveling	M2	3.25		
2.3	Provide all materials and lay in position Reinforced concrete for Strip Foundation 1:2:4 mix, with strength not less than 25 N/mm2 (0.35*0.25 M)	M3	1.00		
2.4	Provide all materials and lay in position Reinforced concrete lintels for doors and window Grill (0.20*0.15 M Beam)	M3	0.10		
2.5	Provide all materials and lay in position Reinforced concrete cover slab (2.35x3.15) of thickness 120mm 1:2:4 mix, with strength not less than 25	M3	0.75		
2.6	Provide all materials and lay in position Reinforced concrete roof beam (200x300 mm)	M3	0.30		

Item No.	Description	Unit	Qty.	Rate	Amount
3	Masonry works				
	<i>Rates shall include but not limited to all necessary formworks, equipments materials cutting around scarps all to the directions and satisfaction of ENGINEER</i>				
3.1	Provide all materials and build 1.5 brick wall with 1:6 C/S mortar for foundation walls up to 30 cm above ground level as per drawings	M2	14.00		
3.2	Provide all materials and build 1.0 brick wall with 1:6 C/S mortar for walls as per drawings & specifications,	M2	26.00		
4	Doors & Window Grills				
	<i>Rates shall include but not limited to providing all material fabrications finishing painting and workmanship as directed by the Engineer</i>				
4.1	Provide all materials and install in position Steel doors Type D1 of steel angles 31.75x 31.75 x 5 mm and steel sheet of thickness 3mm as per	No.	2.00		
4.2	Provide all materials and install in position Steel widow Grill type W1(0.4*0.4m) of steel box section 20x20x1.5mm and lovers of steel flats 50x3 mm	No.	2.00		
5	Finishes Work				
	<i>Rates shall include but not limited to providing all material fabrications finishing painting and workmanship as directed by the Engineer</i>				
5.1	Provide all materials and lay in position min.2cm plaster layer for internal walls with 1:6 C/S mortar	M2	27.00		
5.2	Provide all materials and lay in position min.2cm plaster layer for external	M2	24.00		
5.3	Provide all materials and lay in position 2 layers of under coat (External Talia) and 3 finishing coats (emulsion water based coat) for external walls	M2	24.00		
5.4	Provide all materials and lay in position 2 layers of under coat (internal Talia) and 2 coats of water emulsion paint and one finishing coat of oil paint for internal walls	M2	27.00		
6	Specialties				
	Pavior& Tiles Works				
	<i>Provide & Fix floor tiles according to Drawings, Specifications and Instructions of the Engineer. Rates to include for cutting and bedding and backing in cement/sand mortar (1:6), source Spain or equivalent, grouted in white cement, size and color to be approved by the Engineer, all complete as per Drawings & Specifications. Samples to be submitted for approval of the Engineer with the necessary documents prior to Commencement of Work.</i>				
6.1	Ceramic Tile in Ground Floor Bathroom including skirting tile of height	M2	3.25		
6.2	Provide and apply on R.C slab three coats water proof course of bituminous liquid membrane as per engineer direction. Water proof to be protected with cement screed mortar 1:6 leading to fall with min thickness 30mm.	M2	7.40		
7	Sanitary Work				
	<i>Rates shall include but not limited to providing all material fabrications finishing painting, water proof, workmanship and testing as directed & satisfaction of the Engineer</i>				
7.1	Provide and install Water closet seat (Eastern Type) from recognized manufacturers type Twyford (England) or equivalent from Europe country complete with cistern and all accessories (e.g. Angle valves, shattf, ...etc.)	No.	2.00		
7.2	Provide and install Water Tap from recognized manufacturers (England) or equivalent from Europe country complete with all accessories (e.g. valves, ...etc.) all works as per drawing, specification and direct by Eng.	No.	2.00		
7.3	Provide and install shower rose from recognized manufacturers (England) or equivalent from Europe country complete with all accessories (e.g. valves, ...etc.) all works as per drawing, specification and direct by Eng.	No.	2.00		
7.4	Provide materials and construct one Brick wall Gully trap of Size 30.0X30.0 cm with invert levels as specified in drawings. Provide heavy duty cover for Gully trap Rate shall include Excavation, Backfilling, Brickworks, Plastering & Waterproofing Works as per drawings elbow as per drawing, specific and direct by Eng.	No.	1.00		
7.5	Provide materials and construct one Brick wall manholes of Size 45.0X45.0 cm with invert levels as specified in drawings. Provide heavy duty cover for manhole. Rate shall include Excavation, Backfilling, Brickworks, Plastering & Waterproofing Works as per drawings elbow as per drawing, specific and direct by Eng.	No.	2.00		

Item No.	Description	Unit	Qty.	Rate	Amount
7.6	Provide and lay horizontal & Fix Vertical UPVC pipes (6 bars) (□100 mm) from a recognized reputable manufacturer with all fittings and to be laid according to specifications. Rate shall include excavation and backfill and all necessary works related as per drawing, specification and direct by Eng.	M.L	15.00		
7.7	Provide and fix water supply pipes (□25 mm) Black Polythene water pipe from recognized manufacture with all fittings elbow, tee, valve, reduce (from water Source to Bathroom location).	M.L	55.00		
7.8	Provide and erect water supply pipes PPR from (□19mm) recognized manufacture with all fittings elbow, tee, and valve, reduce all works as per drawing, specification and direct by Eng.	M.L	20.00		
7.9	Provide and install Water tanks of capacity 1000 liters with Water pump 0.5 HP (including safety cage for water pump) with all fittings, float, non-return valves, gate valves, drain, overflow, ...etc. Rate shall include the necessary required tank fixing to R.C slab by steel flat 25mm as per specification and direct by Eng.	No.	1.00		
7.10	Excavation effluent soak-away well internal diameter (net after one brick wall) from grout level to end depth of (2.0m) before lowest summer water table complete with stringer beam cover slab and concrete cover with steel angles 50x50/5mm and nominal steel mesh Ø 8 mm @ 150mm/c both way, and one brick thick wall with mix 1:6 lining to wall with 2.0m internal diameter rate shall include test of water table Constant discharge by using two three phase 10 horse pump for 4 hours + 4 tanker car according to local Municipality all complete to satisfaction of Eng. Recovery test shall be carried out after the constant Discharge test. Until the water level in the well returns approximately to the static level according to the Ssatisfaction of Eng	No.	1.00		
7.11	Rates shall include but not limited to supply of all materials ,equipments tools, testing commissioning and the installation workmanship as per the drawings and specifications and directions& satisfaction of the Engineer Provide and install Fiberglass septic tank (capacity = 45 persons), Septic tank to be consist of TEN No. layers (2- layers fiberglass [450g/m2], 4- layers fiberglass reinforcement [woven Roving 450g/m2 & 4- layer fiberglass [450g/m2]. The External & Internal surfaces to be painted with minimum two coats of epoxy water proof. The Septic tank to be stiffening with steel circular pipe at 0.70 m height & 1.50 m height, three holding Hooks to be welded to the steel circular pipe at 1.5m height. Septic tank top to be reinforced with Heavy steel pipe (80X40X1.5mm) to receive manhole brick walls. All material to be according to the British standers or equivalent & the manufacture to be from a recognized reputable manufacturer.	No.	1.00		
8	Electrical Works				
	<i>Rates shall include but not limited to supply of all materials ,equipments tools, testing commissioning and the installation workmanship as per the drawings and specifications and directions of the Engineer. work shall include laying and fixing of conducts connections out let boxes, conduits, conduits fittings, wires,... etc. that is necessary for complete of work</i>				
8.1	Provide all materials and fix in position wall mounted globe lamps and switches	No.	4.00		
Total of Bill No. (2) Carried to summary					

Summary

No.	Description	Amount
1	(1)Total of Bill No.	
2	(2)Total of Bill No.	
Total Amount		

Summary of Lot no. 2:

No.	Description	Amount
1	Total of Site 2-1	
2	Total of Site 2-2	
3	Total of Site 2-3	
4	Total of Site 2-4	
5	Total of Site 2-5	
6	Total of Site 2-6	
Total Amount of Lot 2		