

**BILLS OF QUANTITIES FOR  
THE REHABILITATION OF ONE (1no.) BAIDU CUSTOMS QUARTER TYPE 2  
BAIDU TOWN, KAILAHUN DISTRICT**

<b>Item No</b>	<b>Description</b>	<b>Qty</b>	<b>Unit</b>	<b>Rate (USD)</b>	<b>Amount (USD)</b>
	<b><u>SUBSTRUCTURE</u></b>				
	<u>Excavation</u>				
	Demoilish existing damaged building structure and cartaway debris	1	item		
A	Excavate oversite, average 150mm deep, to remove top soil and vegetable matter; dispose of excavated materials.	16.86	M <sup>3</sup>		
B	Excavating, starting at site strip level, maximum depth not exceeding 1.2m in trenches to receive concrete footing in foundations.	29.82	M <sup>3</sup>		
C	pits , to receive column bases in foundations	8.75	M <sup>3</sup>		
	Excavating rocks in trenches and pits				
D	laterite rocks (PROVISIONAL)	1	item		
E	gabro rocks (PROVISIONAL)	1	item		
F	Excavate borrow pits to obtain earth filling materials to make up levels under floors	13.88	M <sup>3</sup>		
	<u>Filling and disposal of excavated materials</u>				
G	Depositing and compacting in layers, maximum 4" thick selected materials arising from excavations, to excavations	16.7	M <sup>3</sup>		
H	make up levels under floors	13.88	M <sup>3</sup>		
I	Selected hardcore (ball stones) materials, obtained off site, to make up levels under floors, 300mm thick average, well rammed and levelled to an even surfaces	92.5	M <sup>2</sup>		
J	Dispose of surplus excavated materials	13.88	M <sup>3</sup>		
	<u>Concretework in Foundations</u>				
K	Plain in-situ concrete mix Class 15 footing in trenches, 225mm thick (average)	12.78	M <sup>3</sup>		
L	Reinforced in-situ concrete mix Class 25, in Column bases , 900mm thick square footing	8.75	M <sup>3</sup>		
	Oversite concrete 150mm	15.34	M <sup>3</sup>		
	Columns in foundation	0.54	M <sup>3</sup>		
<b>Construction of One (1no.) Type 2 Quarter carried Forward</b>					

Item No	Description	Qty	Unit	Rate (USD)	Amount (USD)
	<b><u>SUBSTRUCTURE (CONTD)</u></b>			<b>B/F</b>	
	<u>Concretework in Foundations</u>				
M	Plain in-situ concrete mix Class 15 beds, 100mm thick	9.25	M <sup>3</sup>		
	steps and ramps	1.44	M <sup>3</sup>		
	<b><u>Deformed round mild steel bar reinforcement, BS 4449: in</u></b>				
N	Straight and bent bars, 16mm diameter, in columns footings	0.5	tons		
O	Columns in foundation(12mm dia)	0.3	tons		
O	Links and stirrups, 8mm diameter, in columns;	0.1	tons		
P	Formwork in foundation to sides of columns and column bases	51.84	M <sup>2</sup>		
R	edges of steps and ramps	2.56	M <sup>2</sup>		
	<u>Blockwork in Foundations</u>				
S	Precast sandcrete solid blocks, beded and jointed in cement mortar (1:6), and laid to 225mm walling	65.83	M <sup>2</sup>		
	<u>Finishings in Foundations</u>				
T	Cement and sand (1:4) render, smooth trowelled finish to blockwall and concrete surfaces, 13mm thick; externally	33.18	M <sup>2</sup>		
	<u>Painting in Foundations</u>				
U	Prepare and apply two coats black bituminous paint, to rendered surfaces, externally	33.18	M <sup>2</sup>		
	<b>Total Substructure Carried To SUMMARY</b>				

<b><u>CONCRETE WORK - GROUND FLOOR</u></b>					
	Reinforced in-situ concrete mix Class 25 in				
A	columns;	2.5	M <sup>3</sup>		
B	horizontal beams	2.64	M <sup>3</sup>		
C	Lintels	1.02	M <sup>3</sup>		
	<b><u>Deformed round mild steel bar reinforcement, BS 4449: in</u></b>				
E	Straight and bent bars, 12mm diameter, in columns	0.3	tons		
F	horizontal beams	0.49	tons		
G	lintels	0.17	tons		
I	Links and stirrups, 8mm diameter in columns	0.13	tons		
J	horizontal beams	0.22	tons		
K	lintels	0.08	tons		
L	Formwork to sides of columns	43.74	M <sup>2</sup>		
M	gable walls	2.14	M <sup>2</sup>		
N	soffits and sides of horizontal beams	35.4	M <sup>2</sup>		
O	lintels	17.16	M <sup>2</sup>		
P	Shuttering - complete with timber or ply wood, leak - proof, hard boards etc	1	Item		
<b>Total Concrete Works Carried To SUMMARY</b>					

Item No	Description	Qty	Unit	Rate (USD)	Amount (USD)
	<b><u>BLOCKWORK - GROUND FLOOR</u></b>				
A	Precast sandcrete (1:6) solid blocks, bedded and jointed in cement mortar (1:6), and laid to 150mm walling	250.14	M <sup>2</sup>		
	<b>Total Blockwork Carried To SUMMARY</b>				
	<b><u>ROOFING</u></b>				
B	Coloured Aluzinc roofing sheets, 28 gauge x 2.44m long, complete with all fixing accessories	148	M <sup>2</sup>		
C	Ridge cap Aluzinc sheets	17	LM		
D	Roof gutter/ drains with complete fittings and joints	34	LM		
	<b>Total Roofing Carried To SUMMARY</b>				
	<b><u>WOODWORK</u></b>				
	Sawn hardwood timber, treated with coloured approved wood preservative, in				
A	50mm x 150mm ridge board	17	LM		
B	50mm x 100mm rafters	240	LM		
C	50mm x 100mm purlins	275	LM		
D	50mm x 100mm wall plates	55	LM		
E	50mm x 100mm struts / braces	100	LM		
F	50mm x 50mm web/diagonal members	65	LM		
G	50mm x 100mm top & bottom chord/boom	360	LM		
H	Wrought hardwood timber, treated with clear approved wood preservative, in 25mm x 225mm (finished) fascia / verge board, chamfered	52	LM		
I	<b><u>Doors</u></b>				
	Standard section wooden flush door including frame and all fittings. 900mm x 2100mm	4	Nr		
	<b>Total Woodwork Carried To SUMMARY</b>				

Item No	Description	Qty	Unit	Rate (USD)	Amount (USD)
A	<b><u>Doors</u></b>				
i	Standard section metal flush door and frame, steel door hinges, overall door size 900mm x 2100mm	4	Nr		
B	<b><u>Windows</u></b>				
	Standard section Aluminium sliding window complete with, grill , 6mm thick glazing glass, overall size				
i	1950mm x 1200mm	4	Nr		
ii	975mm x 1200mm	4	Nr		
<b>Total Metalwork Carried To SUMMARY</b>					
A	<b><u>ELECTRICAL INSTALLATION</u></b>				
	Install all electrical fittings and lamp holders and switches at specific locations as directed by the supervising engineer	1	item		
<b>Total Electrical Installation Carried To SUMMARY</b>					
<b><u>FLOOR,WALLS AND CEILING FINISHINGS</u></b>					
<b><u>Floors</u></b>					
A	Cement and sand (1:3) screed on concrete floors, 50mm thick	91.3	M <sup>2</sup>		
<b><u>Walls</u></b>					
B	Cement and sand (1:4) rendering to walls, 12.5mm thick, internally	207	M <sup>2</sup>		
	externally	151.3	M <sup>2</sup>		
<b><u>Ceiling</u></b>					
	Hardboard sheets, 2.42m x 1.2m X 6mm thick fixed to underside of ceiling with clout nails	160	M <sup>2</sup>		
<b>Total Floor,walls and Ceiling Finishes carried To SUMMARY</b>					
<b><u>GLAZING</u></b>					
<b><u>glazing quality tinted sheet glass</u></b>					
A	6mm thick, glazing fixed to steel swinging window frame,	4	No.		
<b>Total Glazing carried To SUMMARY</b>					
<b><u>PAINTING AND DECORATING</u></b>					
A	Prepare and apply three coats quality emulsion paint to, externally rendered walls	151.3	M <sup>2</sup>		
B	internally rendered walls	207	M <sup>2</sup>		
C	soffits of hardboard ceiling including coverstrips and conerstrips Internally and externally	160	M <sup>2</sup>		
D	Prepare and apply three coats oil based paint, to Steel doors including window grill;	25	M <sup>2</sup>		
E	Fascia board, not exceeding 300mm girth	52	M		
<b>Total Painting and Decorating carried To SUMMARY</b>					

Item No	Description	Qty	Unit	Rate (USD)	Amount (USD)
	<b><u>EXTERNALWORKS</u></b>				
	<u>Surface Water Drainage</u>				
J	Excavate trenches, starting at site strip level, average 600mmx75mm wide x 300mm deep	46	M		
	<u>Filling and disposal of excavated materials</u>				
K	Depositing and compacting in layers, maximum 100mm thick selected materials arising from excavations, to excavations	6.21	M <sup>3</sup>		
L	Dispose of surplus excavated material after backfilling	2.07	M <sup>3</sup>		
M	Plain in-situ concrete class 15, in 75mm thick base	2.07	M <sup>3</sup>		
N	Precast sandcrete solid blocks, bedded and jointed in cement mortar (1:6) and laid to two sides of concrete base in trench 150mm thick walls	20.7	M <sup>2</sup>		
O	Cement and sand (1:6) render, smooth trowelled finish, to inside of blockwalls and base	52.9	M <sup>2</sup>		
	<u>Aprons</u>				
D	Depositing and compacting in layers, maximum 100mm thick, selected hardcore (ball stone) materials, obtained off-site, to make up levels, average 100mm thick well rammed and levelled to an even surface	37.3	M <sup>2</sup>		
	Plain in-situ concrete of class 15 as apron, 50mm thick, laid to falls	1.87	M <sup>3</sup>		
E	Formwork to edges of apron, not exceeding 50mm wide	35.9	M		
	<b>Total External Works carried To SUMMARY</b>				

**Construction of One (1no.) Type 2 Quarter**

	<u>SUMMARY</u>			<b>AMOUNT (USD)</b>
1	SUBSTRUCTURE			
2	CONCRETEWORK			
3	BLOCKWORK			
4	ROOFING			
5	WOODWORK			
6	METALWORK			
7	ELECTRICAL INSTALLATION			
8	FLOOR, WALL AND CEILING FINISHINGS			
9	GLAZING			
10	PAINTING AND DECORATING			
11	EXTERNAL WORKS			
	<b>Total for Type 2 Quarter Carried To MAIN SUMMARY</b>			

**BILLS OF QUANTITIES  
FOR  
THE RECONSTRUCTION OF THREE(3) EXTERNAL KITCHEN AND TOILET FOR BAIDU CUSTOMS  
QUARTER TYPE 2  
BAIDU TOWN,KAILAHUN DISTRICT**

Item No	Description	Qty	Unit	Rate (USD)	Amount (USD)
1	<b><u>SUBSTRUCTURE</u></b>				
A	<u>Excavation</u>				
A.1	Demoilish existing damage building structure and cartaway debris	1	item		
A.2	Excavate oversite, average 150mm deep, to remove top soil and vegetable matter; dispose of excavated materials	6.41	M <sup>3</sup>		
A.3	Excavating, starting at site strip level, maximum depth not exceeding 1.2m				
	trenches to receive concrete footing in foundations..	60.85	M <sup>3</sup>		
A.4	pits , to receive column bases in foundations	2.43	M <sup>3</sup>		
	Excavating rocks in trenches and pits				
A.5	laterite rocks (PROVISIONAL)	1	item		
A.6	gabro rocks (PROVISIONAL)	1	item		
A.7	Excavate borrow pits to obtain earth filling materials to make up levels under floors	3.60	M <sup>3</sup>		
B	<u>Filling and disposal of excavated materials</u>				
B.1	Depositing and compacting in layers, maximum 4" thick selected materials arising from excavations, to excavations	5.18	M <sup>3</sup>		
B.2	make up levels under floors selected hardcore (ball stones) materials, obtained off site, to	3.43	M <sup>3</sup>		
B.3	make up levels under floors, 300mm thick average, well rammed and levelled to an even surfaces	26.1	M <sup>2</sup>		
B.4	Dispose of surplus excavated materials	28.6	M <sup>3</sup>		
C	<u>Concretework in Foundations</u>				
C.1	Plain in-situ concrete mix Class 15 footing in trenches, 225mm thick (average)	11.41	M <sup>3</sup>		
C.2	Reinforced in-situ concrete mix Class 25, in				
C.2.1	Column bases , 900mm thick square footing	2.43	M <sup>3</sup>		
C.2.2	Oversite concrete 150mm	5.5	M <sup>3</sup>		
C.2.3	Columns in foundation(10Nr)	0.31	M <sup>3</sup>		

**Reconstruction Three (3) External toilet Type 2 Quarter**

C/F

Item No	Description	Qty	Unit	Rate (USD)	Amount (USD)
	<b><u>SUBSTRUCTURE</u> (CONTD)</b>			B/F	
	<u>Concretework in Foundations</u>				
C.3	Plain in-situ concrete mix Class 15 beds, 100mm thick	5.07	M <sup>3</sup>		
	steps and ramps		M <sup>3</sup>		
D	<b><u>Deformed round mild steel bar reinforcement, BS 4449:</u></b> <b><u>in</u></b>				
	Straight and bent bars, 16mm diameter, in columns				
D.1	footings	0.25	tons		
D.2	Columns in foundation(12mm dia)	0.15	tons		
D.3	Links and stirrups, 8mm diameter, in columns;	0.05	tons		
D.4	Formwork in foundation to sides of columns and column bases	25.92	M <sup>2</sup>		
	edges of steps and ramps		M <sup>2</sup>		
E	<u>Blockwork in Foundations</u>				
	Precast sandcrete solid blocks, beded and jointed in				
E.1	cement mortar (1:6), and laid to 225mm walling	77	M <sup>2</sup>		
F	<u>Finishings in Foundations</u>				
F.1	Cement and sand (1:4) render, smooth trowelled finish to				
	blockwall and concrete surfaces, 13mm thick; externally	28.61	M <sup>2</sup>		
G	<u>Painting in Foundations</u>				
	Prepare and apply two coats black bituminous paint, to				
G.1	rendered surfaces, externally	28.61	M <sup>2</sup>		
	<b>Total Substructure Carried To SUMMARY</b>				

Item No	Description	Qty	Unit	Rate (USD)	Amount (USD)
2	<b><u>CONCRETE WORK - GROUND FLOOR</u></b>				
A	Reinforced in-situ concrete mix Class 25 in				
A.1	columns;	0.98	M <sup>3</sup>		
A.2	horizontal beams	3.15	M <sup>3</sup>		
A.3	Lintels	0.53	M <sup>3</sup>		
B	<b><u>Deformed round mild steel bar reinforcement, BS 4449: in</u></b>				
B.1	Straight and bent bars, 12mm diameter, in columns				
B.1.1	columns	0.15	tons		
B.1.2	horizontal beams	0.36	tons		
B.1.3	lintels	0.09	tons		
B.2	Links and stirrups, 8mm diameter in				
B.2.1	columns	0.06	tons		
B.2.2	horizontal beams	0.16	tons		
B.2.3	lintels	0.04	tons		
C.1	Formwork to sides of columns	21.87	M <sup>2</sup>		
C.2	gable walls	2.64	M <sup>2</sup>		
C.3	soffits and sides of horizontal beams	21	M <sup>2</sup>		
C.4	lintels	9.8	M <sup>2</sup>		
C.5	Shuttering - complete with timber or ply wood, leak - proof, hard boards etc	1	Item		
<b>Total Concrete work Carried To SUMMARY</b>					

Item No	Description	Qty	Unit	Rate (USD)	Amount (USD)
<b>3</b>	<b><u>BLOCKWORK - GROUND FLOOR</u></b>				
A	Precast sandcrete (1:6) solid blocks, bedded and jointed in cement mortar (1:6), and laid to 150mm walling	188.2	M <sup>2</sup>		
	<b>Total Blockwork Carried To SUMMARY</b>				<b>0.00</b>
<b>4</b>	<b><u>ROOFING</u></b>				
A	Coloured Aluzinc roofing sheets, 28 gauge x 2.44m long, complete with all fixing accessories	53.21	M <sup>2</sup>		
B	Ridge cap Aluzinc sheets		LM		
C	Roof gutter/ drains with complete fittings and joints	14.43	LM		
	<b>Total Roofing carried to SUMMARY</b>				
<b>5</b>	<b><u>WOODWORK</u></b>				
A	Sawn hardwood timber, treated with coloured approved wood preservative, in				
A.1	50mm x 150mm ridge board		LM		
A.2	50mm x 100mm rafters	94	LM		
A.3	50mm x 100mm purlins	98	LM		
A.4	50mm x 100mm wall plates	76	LM		
A.5	50mm x 100mm struts / braces	40	LM		
A.6	50mm x 50mm web/diagonal members	..	LM		
A.7	50mm x 100mm top & bottom chord/boom	120	LM		
A.8	Wrought hardwood timber, treated with clear approved wood preservative, in 25mm x 225mm (finished) fascia / verge board, chamfered	33	LM		
B	<b><u>Doors</u></b>				
	Standard section wooden flush door including frame and all fittings.				
B.1	750mm x 2100mm	4	Nr		
B.2	630mm x 2100mm	2	Nr		
	<b>Total Woodwork carried to SUMMARY</b>				

Item No	Description	Qty	Unit	Rate (USD)	Amount (USD)
<b>6</b>	<b><u>Metalwork</u></b>				
A	<b><u>Doors</u></b>				
	Standard section metal flush door and frame, steel door hinges, overall door size				
A.1	900mm x 2100mm	2	Nr		
B	<b><u>Windows</u></b>				
	Standard section Aluminium sliding window complete with, grill , 6mm thick glazing glass, overall size				
B.1	1800mm x 1200mm	2	Nr		
B.2	600mm x 600mm	4	Nr		
	<b>Total Metalwork Carried to SUMMARY</b>				
<b>7</b>	<b><u>ELECTRICAL INSTALLATION</u></b>				
A	Install all electrical fittings and lamp holders and switches at specific locations as directed by the supervising engineer	1	item		
	<b>Total Electrical installation Carried To SUMMARY</b>				
<b>8</b>	<b><u>FLOOR,WALLS AND CEILING FINISHINGS</u></b>				
A	<b><u>Floors</u></b>				
A.1	Cement and sand (1:3) screed on concrete floors, 50mm thick,	22.2	M <sup>2</sup>		
A.2	Floor tiles, laid in whole units to regular pattern SKID resistance 300mm x 300mm ceramic floor tiles and provide screed and skirting laid in regular pattern ,bedding, jointing and pointing in Bath and Toilet	9	M <sup>2</sup>		
B	<b><u>Walls</u></b>				
	Cement and sand (1:4) rendering to walls, 12.5mm thick,				
B.1	internally	104	M <sup>2</sup>		
B.2	externally	79	M <sup>2</sup>		
B.3	provide and fix wall tiles with white glazed ceramic wall tiles, fixed to rendered surfaces 150mm x 150mm x 6mm thick in bath rooms 1.8m and at sections of wash hand basin.	20	M <sup>2</sup>		
C	<b><u>Ceiling</u></b>				
	Hardboard sheets, 2.42m x 1.2m X 6mm thick fixed to underside of ceiling timber with clout nails				
C.1	internally and externally	42	M <sup>2</sup>		
	<b>Total Floor, Walls and Ceiling Finishings Carried To SUMMARY</b>				

Item No	Description	Qty	Unit	Rate (USD)	Amount (USD)
<b>9</b>	<b><u>PLUMBING INSTALLATION</u></b>				
A	<b><u>Pipework, joints and support</u></b>				
A.1	Concealed PVC service pipework to cold water and sanitary installations including joints, fittings and supports.	1	item		
<b>B</b>	<b><u>EQUIPMENT AND ANCILLARIES</u></b>				
B.1	wash hand basin complete with bottle trap and taps	2	Nr		
B.2	toilet WC cistern and bowl	2	Nr		
B.3	Shower trap	2	Nr		
	<b>Total Plumbing Carried To SUMMARY</b>				
<b>10</b>	<b><u>PAINTING AND DECORATING</u></b>				
A	Prepare and apply three coats quality emulsion paint to,				
A.1	externally rendered walls	79	M <sup>2</sup>		
A.2	internally rendered walls	104	M <sup>2</sup>		
A.3	soffits of hardboard ceiling including coverstrips and conerstrips Internally and externally	42	M <sup>2</sup>		
	Prepare and apply three coats oil based paint, to				
A.4	Steel doors including window grill;	12	M <sup>2</sup>		
A.5	Fascia board, not exceeding 300mm girth	33	M		
	<b>Total Painting and Decorating Carried To SUMMARY</b>				

Item No	Description	Qty	Unit	Rate (USD)	Amount (USD)
11	<b><u>EXTERNALWORKS</u></b>				
A	<u>Surface Water Drainage</u>				
A.1	Excavate trenches, starting at site strip level,average 600mmx75mm wide x 300mm deep	35	M		
B	<u>Filling and disposal of excavated materials</u>				
	Depositing and compacting in layers, maximum 100mm thick selected materials arising from excavations, to				
B.1	excavations	8	M <sup>3</sup>		
B.2	Dispose of surplus excavated material after backfilling	4.85	M <sup>3</sup>		
C	Plain in-situ concrete class 15, in				
C.1	75mm thick base	2	M <sup>3</sup>		
D	Precast sandcrete solid blocks, bedded and jointed in cement mortar (1:6) and laid to two sides of concrete base in trench				
D.1	150mm thick walls	21	M <sup>2</sup>		
D.2	Cement and sand (1:6) render, smooth trowelled finish, to inside of blockwalls and base	43	M <sup>2</sup>		
E	<u>Aprons</u>				
	Depositing and compacting in layers, maximum 100mm thick, selected hardcore (ball stone) materials, obtained off-site, to make up levels, average 100mm thick				
E.1	well rammed and levelled to an even surface	18	M <sup>2</sup>		
E.2	Plain in-situ concrete of class 15 as apron, 50mm thick, laid to falls	0.9	M <sup>3</sup>		
E.3	Formwork to edges of apron, not exceeding 50mm wide	34	M		
<b>Total External Works Carried To SUMMARY</b>					

No.	<u>SUMMARY</u>	AMOUNT (USD)
1	SUBSTRUCTURE	
2	CONCRETEWORK	
3	BLOCKWORK	
4	ROOFING	
5	WOODWORK	
6	METALWORK	
7	ELECTRICAL INSTALLATION	
8	FLOOR, WALL AND CEILING FINISHINGS	
9	PLUMBING INSTALLATION	
10	PAINTING AND DECORATING	
11	EXTERNAL WORKS	
	<b>Total for One(1) External toilet and Kitchen</b>	
	<b>Total for three(3) External toilet and kitchen Carried To MAIN SUMMARY</b>	

**BILLS OF QUANTITIES  
FOR  
THE REHABILITATION OF SEVEN (7) EXTERNAL KITCHEN AND TOILET FOR BAIDU CUSTOMS  
QUARTER TYPE 2 BAIDU TOWN, KAILAHUN DISTRICT**

Item No	Description	Qty	Unit	Rate (USD)	Amount (USD)
<b>1</b>	<b><u>ROOFING</u></b>				
A	Replace all zinc Coloured Aluzinc roofing sheets, 28 gauge x 2.44m long, complete with all fixing accessories	53.21	M <sup>2</sup>		
B	Ridge cap Aluzinc sheets		LM		
C	Roof gutter/ drains with complete fittings and joints	14.43	LM		
	<b>Total Roofing Carried to SUMMARY</b>				
<b>2</b>	<b><u>WOODWORK</u></b>				
A	Sawn hardwood timber, treated with coloured approved wood preservative, in				
A.1	50mm x 150mm ridge board		LM		
A.2	50mm x 100mm rafters	94	LM		
A.3	50mm x 100mm purlins	98	LM		
A.4	50mm x 100mm wall plates	76	LM		
A.5	50mm x 100mm struts / braces	40	LM		
A.6	50mm x 50mm web/diagonal members		LM		
A.7	50mm x 100mm top & bottom chord/boom	120	LM		
A.8	Wrought hardwood timber, treated with clear approved wood preservative, in 25mm x 225mm (finished) fascia / verge board, chamfered	33	LM		
<b>B</b>	<b><u>Doors</u></b>				
	Standard section wooden flush door including frame and all fittings.				
B.1	750mm x 2100mm	4	Nr		
B.2	630mm x 2100mm	2	Nr		
	<b>Total Woodwork carried to SUMMARY</b>				

Item No	Description	Qty	Unit	Rate (USD)	Amount (USD)
<b>3</b>	<b><u>Metalwork</u></b>				
A	<b><u>Doors</u></b>				
	Standard section metal flush door and frame, steel door hinges, overall door size				
A.1	900mm x 2100mm	2	Nr		
B	<b><u>Windows</u></b>				
	Standard section Aluminium sliding window complete with, grill , 6mm thick glazing glass, overall size				
B.1	1800mm x 1200mm	2	Nr		
B.2	600mm x 600mm	4	Nr		
	<b>Total Matalwork Carried to SUMMARY</b>				
<b>4</b>	<b><u>ELECTRICAL INSTALLATION</u></b>				
A	Install all electrical fittings and lamp holders and switches at specific locations as directed by the supervising engineer	1	item		
	<b>Total Electrical Installation Carried To SUMMARY</b>				
<b>5</b>	<b><u>FLOOR,WALLS AND CEILING FINISHINGS</u></b>				
	Replace all floor screed and tiles				
A	<b><u>Floors</u></b>				
A.1	Cement and sand (1:3) screed on concrete floors, 50mm thick,	22.2	M <sup>2</sup>		
A.2	Floor tiles, laid in whole units to regular pattern SKID resistance 300mm x 300mm ceramic floor tiles and provide screed and skirting laid in regular pattern ,bedding, jointing and pointing in Bath and Toilet	9	M <sup>2</sup>		
B	<b><u>Walls</u></b>				
B.1	Repair narrow and wide cracks in existing plastering work with (1:3) mix around walls, windows and door frames 12.5mm thick,	1	item		
B.3	provide and fix wall tiles with white glazed ceramic wall tiles, fixed to rendered surfaces 150mm x 150mm x 6mm thick in bath rooms 1.8m and at sections of wash hand basin.	20	M <sup>2</sup>		
C	<b><u>Ceiling</u></b>				
C.1	Hardboard sheets, 2.42m x 1.2m X 6mm thick fixed to underside of ceiling timber with clout nails internally and externally	42	M <sup>2</sup>		
	<b>Total Floor,Walls and Ceiling Finishes Carried To SUMMARY</b>				

Item No	Description	Qty	Unit	Rate (USD)	Amount (USD)
<b>6</b>	<b><u>PLUMBING INSTALLATION</u></b>				
A	<b><u>Pipework, joints and support</u></b>				
A.1	Concealed PVC service pipework to cold water and sanitary installations including joints, fittings and supports.	1	item		
<b>B</b>	<b><u>EQUIPMENT AND ANCILLARIES</u></b>				
B.1	wash hand basin complete with bottle trap and taps	2	Nr		
B.2	toilet WC cistern and bowl	2	Nr		
B.3	Shower trap	2	Nr		
<b>Total Plumbing Carried To SUMMARY</b>					
<b>7</b>	<b><u>PAINTING AND DECORATING</u></b>				
A	Prepare and apply three coats quality emulsion paint to,				
A.1	externally rendered walls	79	M <sup>2</sup>		
A.2	internally rendered walls soffits of hardboard ceiling including coverstrips and conerstrips	104	M <sup>2</sup>		
A.3	Internally and externally	42	M <sup>2</sup>		
	Prepare and apply three coats oil based paint, to				
A.4	Steel doors including window grill;	12	M <sup>2</sup>		
A.5	Fascia board, not exceeding 300mm girth	33	M		
<b>Total Painting and Decorating Carried To SUMMARY</b>					
<b>8</b>	<b><u>EXTERNALWORKS</u></b>				
A	<b><u>Surface Water Drainage</u></b>				
A.1	Excavate trenches, starting at site strip level, average 600mmx75mm wide x 300mm deep	35	M		
<b>B</b>	<b><u>Filling and disposal of excavated materials</u></b>				
B.1	Depositing and compacting in layers, maximum 100mm thick selected materials arising from excavations, toexcavations	8	M <sup>3</sup>		
B.2	Dispose of surplus excavated material after backfilling	4.85	M <sup>3</sup>		
<b>C</b>	<b><u>Plain in-situ concrete class 15, in 75mm thick base</u></b>				
D	Precast sandcrete solid blocks, bedded and jointed in cement mortar (1:6) and laid to two sides of concrete base in trench				
D.1	150mm thick walls	21	M <sup>2</sup>		
D.2	Cement and sand (1:6) render, smooth trowelled finish, to inside of blockwalls and base	43	M <sup>2</sup>		
				C/F	

<b>Item No</b>	<b>Description</b>	<b>Qty</b>	<b>Unit</b>	<b>Rate (USD)</b>	<b>Amount (USD)</b>
				B/F	
E	<u>Aprons</u>				
E.1	Depositing and compacting in layers, maximum 100mm thick, selected hardcore (ball stone) materials, obtained off site, to make up levels, average 100mm thick well rammed and levelled to an even surface	18	M <sup>2</sup>		
E.2	Plain in-situ concrete of class 15 as apron, 50mm thick, laid to falls	0.9	M <sup>3</sup>		
E.3	Formwork to edges of apron, not exceeding 50mm wide	34	M		
	<b>Total External Works Carried To SUMMARY</b>				

No.	<u>SUMMARY</u>	AMOUNT (USD)
1	ROOFING	
2	WOODWORK	
3	METALWORK	
4	ELECTRICAL INSTALLATION	
5	FLOOR, WALL AND CEILING FINISHINGS	
6	PLUMBING INSTALLATION	
7	PAINTING AND DECORATING	
8	EXTERNAL WORKS	
<b>Total for One(1) External toilet and Kitchen</b>		
<b>Total for seven(7) External toilet and kitchen Carried to Main summary</b>		

**BILLS OF QUANTITIES  
FOR  
THE REHABILITATION OF NINE(9) BAIDU CUSTOMS QUARTER TYPE 2  
KOINDU TOWN,KAILAHUN DISTRICT**

Item No	Description	Qty	Unit	Rate (USD)	Amount (USD)
	<b><u>ROOFING</u></b>				
A	Remove and replace all Aluzinc roofing sheets with coloured Aluzinc roofing sheets, 28 gauge x 2.44m long, complete with all fixing accessories	148	M <sup>2</sup>		
B	Ridge cap Aluzinc sheets	17	LM		
C	Roof gutter/ drains with complete fittings and joints	50	LM		
	<b>TOTAL ROOFING CARRIED TO SUMMARY</b>				
	<b><u>WOODWORK</u></b>				
	Replace all roof members Sawn hardwood timber, treated with coloured approved wood preservative, in				
A	50mm x 150mm ridge board	17.04	LM		
B	50mm x 100mm rafters	260	LM		
C	50mm x 75mm purlins	275	LM		
D	50mm x 100mm wall plates	55	LM		
E	50mm x 100mm struts / braces	100	LM		
F	50mm x 50mm web/diagonal members	80	LM		
G	50mm x 75mm top & bottom chord/boom	370	LM		
H	Wrought hardwood timber, treated with clear approved wood preservative, in 25mm x 225mm (finished) fascia / verge board, chamfered	55	LM		
I	<b><u>Doors</u></b>				
	Repace all wooden doors with standard section wooden flush door including frame and all fittings.				
	900mm x 2100mm	4	Nr		
	<b>Total Woodwork Carried to SUMMARY</b>				

Item No	Description	Qty	Unit	Rate (USD)	Amount (USD)
A	<b><u>ELECTRICAL INSTALLATION</u></b>				
	Replace all damage electrical fittings and lamp holders and switches at specific locations as directed by the supervising engineer	1	item		
	<b>Total Electrical Installation Carried To SUMMARY</b>				
	<b><u>FLOOR, WALLS AND CEILING FINISHINGS</u></b>				
	<u>Floors</u>				
A	Remove and replace cement and sand (1:3) screed on concrete floors, 50mm thick,	91.3	M <sup>2</sup>		
B	Repair narrow and wide cracks in existing plastering work with (1:3) mix around walls, windows and door frames 12.5mm thick,	1	item		
C	<u>Ceiling</u>				
	Replace all hardboard sheets, with 2.42m x 1.2m X 6mm thick fixed to underside of ceiling timber with clout nails internally and externally	160	M <sup>2</sup>		
	<b>Total Floor, Walls and Finishings Carried To SUMMARY</b>				
<b>5</b>	<b>METAL WORK</b>				
A	<u>Windows</u>				
	Replace all windows with standard section Aluminium sliding window complete with, grill, 6mm thick glazing glass, overall size;				
A.1	1950mm x 1200mm	4	Nr		
A.2	975mm x 1200mm	4	Nr		
	<b>Total Metal Work Carried To SUMMARY</b>				
	<b><u>PAINTING AND DECORATING</u></b>				
	Prepare and apply three coats quality emulsion paint to,				
A	externally rendered walls	151.3	M <sup>2</sup>		
B	internally rendered walls	207	M <sup>2</sup>		
C	soffits of hardboard ceiling including coverstrips and conerstrips Internally and externally	160	M <sup>2</sup>		
D	Prepare and apply three coats oil based paint, to Steel glazed windows and doors including guard bars;	25	M <sup>2</sup>		
E	Foundation level externally	33.18	M <sup>2</sup>		
F	Fascia board, not exceeding 300mm girth	52	M		
	<b>Total Painting and Decorating Carried To SUMMARY</b>				

Item No	Description	Qty	Unit	Rate (USD)	Amount (USD)
	<b><u>EXTERNALWORKS</u></b>				
	Demolish all damage external works and repair				
	<u>Surface Water Drainage</u>				
A	Excavate trenches, starting at site strip level, average 600mmx75mm wide x 300mm deep	46	M		
	<u>Filling and disposal of excavated materials</u>				
	Depositing and compacting in layers, maximum 100mm thick selected materials arising from excavations, to				
B	excavations	6.21	M <sup>3</sup>		
C	Dispose of surplus excavated material after backfilling	2.07	M <sup>3</sup>		
D	Plain in-situ concrete class 15, in 75mm thick base	2.07	M <sup>3</sup>		
E	Precast sandcrete solid blocks, bedded and jointed in cement mortar (1:6) and laid to two sides of concrete base in trench 150mm thick walls	20.7	M <sup>2</sup>		
F	Cement and sand (1:6) render, smooth trowelled finish, to inside of blockwalls and base	52.9	M <sup>2</sup>		
	<u>Aprons</u>				
G	Depositing and compacting in layers, maximum 100mm thick, selected hardcore (ball stone) materials, obtained off-site, to make up levels, average 100mm thick well rammed and levelled to an even surface	37.3	M <sup>2</sup>		
H	Plain in-situ concrete of class 15 as apron, 50mm thick, laid to falls	1.87	M <sup>3</sup>		
	Formwork to edges of apron, not exceeding 50mm wide	35.9	M		
<b>Total External Works Carried To SUMMARY</b>					

<b><u>SUMMARY FOR REHABILITATION OF NINE(9) TYPE 2 QUARTER</u></b>		<b>AMOUNT</b>
1	ROOFING	
2	WOODWORK	
3	ELECTRICAL INSTALLATION	
4	FLOOR, WALL AND CEILING FINISHINGS	
5	GLAZING	
6	PAINTING AND DECORATING	
7	EXTERNAL WORKS	
	<b>Total for One(1)Quarter type 2</b>	
<b>Total for Nine (9) Quarter type 2 Carried to Main Summary</b>		

**BILLS OF QUANTITIES  
FOR  
THE REHABILITATION OF ONE(1) BAIDU CUSTOMS QUARTER TYPE 1  
KOINDU TOWN,KAILAHUN DISTRICT**

<b>Item No</b>	<b>Description</b>	<b>Qty</b>	<b>Unit</b>	<b>Rate (USD)</b>	<b>Amount (USD)</b>
<b>1</b>	<b><u>ROOFING</u></b>				
A	Remove and replace all Aluzinc roofing sheets with coloured Aluzinc roofing sheets, 28 gauge x 2.44m long, complete with all fixing accessories	311.2	M <sup>2</sup>		
B	Replace ridge cap with Coloured Aluzinc	23	LM		
C	Roof gutter/ drains with complete fittings and joints	100	LM		
<b>TOTAL ROOFING CARRIED TO SUMMARY</b>					
<b>2</b>	<b><u>WOODWORK</u></b>				
	Replace all damage roof members with Sawn hardwood timber, treated with coloured approved wood preservative, in				
A	50mm x 100mm ridge boards	23	LM		
B	50mm x 100mm rafters	500	LM		
C	50mm x 75mm purlins	500	LM		
D	50mm x 100mm wall plates	70	LM		
E	50mm x 100mm struts / braces	200	LM		
F	50mm x 50mm web/diagonal members	150	LM		
G	50mm x 75mm top & bottom chord/boom	675	LM		
	Wrought hardwood timber, treated with clear approved wood preservative, in				
H	25mm x 225mm (finished) fascia / verge board, chamfered	80	LM		
J	<b><u>Doors</u></b>				
	Repace all wooden doors with standard section wooden flush door including frame and all fittings.				
J.1	900mm x 1950mm	6	Nr		
J.2	825mm x 1950mm	4	Nr		
<b>TOTAL WOODWORK CARRIED TO SUMMARY</b>					

Item No	Description	Qty	Unit	Rate (USD)	Amount (USD)
<b>3</b>	<b><u>ELECTRICAL INSTALLATION</u></b>				
A	Replace all damage electrical fittings and lamp holders and switches at specific locations as directed by the supervising engineer	1	item		
	<b>TOTAL ELECTRICAL INSTALLATION CARRIED TO SUMMARY</b>				
<b>4</b>	<b><u>FLOOR, WALLS, &amp; CEILING FINISHINGS</u></b>				
A	Repair narrow and wide cracks in existing plastering work with (1:3) mix around walls, windows and door frames 12.5mm thick,	1	item		
	<u>Ceiling</u>				
	Replace all hardboard sheets, with 2.42m x 1.2m X 6mm thick fixed to underside of ceiling timber with clout nails				
B	internally and externally	263.6	M <sup>2</sup>		
	<b>Total FLOOR, WALLS AND CEILING FINISHINGS CARRIED TO SUMMARY</b>				
<b>5</b>	<b><u>METAL WORK</u></b>				
A	<u>Windows</u>				
	Replace all windows with standard section Aluminium sliding window complete with, grill, 6mm thick glazing glass, overall size;				
A.1	1950mm x 1200mm	8	Nr		
A.2	975mm x 1200mm	4	Nr		
A.3	750mm X 750mm	4	Nr		
	<b>TOTAL METALWORK CARRIED TO SUMMARY</b>				
<b>6</b>	<b><u>PAINTING AND DECORATING</u></b>				
	Remove all existing paints on walls and Prepare and apply three coats quality emulsion paint to,				
A	externally rendered walls	274.4	M <sup>2</sup>		
B	internally rendered walls	457	M <sup>2</sup>		
C	Soffits of hardboard ceiling including coverstrips and conerstrips Internally and externally	263.6	M <sup>2</sup>		
	Prepare and apply three coats oil based paint, to				
D	Steel glazed windows and doors including guard bars;	25	M <sup>2</sup>		
E	Foundation level externally	34	M <sup>2</sup>		
F	Fascia board, not exceeding 300mm girth	80	M		
	<b>Total PAINTING AND DECORATING CARRIED TO SUMMARY</b>				
<b>7</b>	<b><u>EXTERNALWORKS</u></b>				
A	replace wc citran, and repair septic tank with all plumbing works and tiles in toilet and bath.	1	item		
	<b>TOTAL EXTERNAL WORKS CARRIED TO SUMMARY</b>				

No.	<b><u>SUMMARY FOR REHABILITATION OF TYPE 1 QUARTER</u></b>	<b>AMOUNT (USD)</b>
1	ROOFING	
2	WOODWORK	
3	ELECTRICAL INSTALLATION	
4	FLOOR, WALL AND CEILING FINISHINGS	
5	METAL WORK	
6	PAINTING AND DECORATING	
7	EXTERNAL WORKS	
<b>Total for Quarter Type 1 Carried to Main Summary</b>		

<b>Bills of Quantities for the drilling of One(1) Solar Powered Borehole for the Beidu Custom Quarters, Sierra Leone-Liberia Border , Kailahun District</b>					
<b>Item</b>	<b>Description</b>	<b>Unit</b>	<b>Quantity</b>	<b>Rate (USD)</b>	<b>Amount (USD)</b>
<b>1</b>	<b>Mobilisation</b>				
1a	Mobilisation and transportation of all drilling units to site.	L/S			
1b	Demobilisation of drilling unit back to base.	L/S			
1c	Geo physical survey; Perform VES ground water survey and determine most potential and appropriate location for high yield bore hole. Including the preparation and submission of hydrogeological report.	L/S			
1d	Erecting and dismantling of the drilling rig unit at the site.	L/S			
<b>2</b>	<b>Borehole Drilling</b>				
2a	Drilling of standard borehole for installation of 180 mm PVC casing maximum depth of 100m	m (Overburde	50		
		m (rock)	50		
2b	Lost temporary casing	m	20		
<b>3</b>	<b>Borehole Completion</b>				
3a	Supply and install 180 mm OD 160 mm ID heavy duty threaded PVC casing	m	75		
3b	Supply and install 180 mm OD 160 mm ID heavy duty threaded PVC slotted screen	m	25		
3c	Supply and insert filter gravel pack with uniform grading between 2mm to 4mm size .	m <sup>3</sup>	5		
3d	Backfill borehole annulus	L/S	1		
3e	Supply cement and install 6m deep sanitary seal	L/S	1		
3f	Develop boreholes by jetting, surging and airlifting	L/S	1		
<b>4</b>	<b>Pump Testing</b>				
4a	Carry out step drawdown test (6 x 60 min. steps) on each hole	No	1		
4b	Carry out test pumping constant discharge including installation and removal of test pumping equipment (draw down and recovery measurement)	Hr	24		

Item	Description	Unit	Quantity	Rate (USD)	Amount (USD)
<b>5</b>	<b>Water quality analysis</b>				
5a	carry out physical, chemical, and bacteriological analysis of the bore hole water. All data should be analyse and checked against WHO standards and levels to be permissible before further construction.	L/S	1		
<b>6</b>	<b>Disinfect borehole</b>				
6a	Clean and Disinfect borehole with 50mg/ltr HTH chloride solution or as directed by supervising engineer.	L/S	1		
<b>7</b>	<b>Idle time</b>				
7a	Idle time caused by the Employer or any of his representatives	Hr	1		
	<b>Sub-Total</b>				
<b><u>WATER SUPPLY , TOWER, PUMP AND TANK</u></b>					
8	Construct double H type 3m height concrete with 1:2:4 mix, form work and reinforcement tower to receive or accommodate 20000 litre water storage tank	Nr	1		
9	Provide and install <b>3 - 5</b> horse power (HP) Submersible Solar power high water Pump with built - in storage battery and remote control as may be determined by the Engineer complete with all its plumbing installations and fixing accessories.	Nr	1		
10	Allow for builder's work in connection with Excavations and earth works, Concrete works and plumbing and construction of WASH facility.	LS	1		
11	Provide two 10,000 litre white transparent water tank and allow for builder's work in plumbing installations, connections and fittings.	2	Nr		
				<b>Sub-Total</b>	
<b>Total Solar Powered Borehole and Water Supply Carried to Main Summary</b>					

**MAIN SUMMARY OF BAIDU CUSTOM QUARTERS, KAILAHUN DISTRICT.**

NO	COMPONENT DESCRIPTION	AMOUNT( USD)	
1	REHABILITATION(RECONSTRUCTION) OF ONE (1 No.) TYPE 2 QUARTERS	-	0
2	REHABILITATION(RECONSTRUCTION) OF THREE(3) EXTERNAL KITCHENS AND TOILET FOR TYPE 2 QUARTERS	-	0
3	REHABILITATION(RENOVATION) OF NINE (9 No.) TYPE 2 QUARTERS	-	
4	REHABILITATION(RENOVATE) OF SEVEN(7) EXTERNAL KITCHEN AND TOILET FOR TYPE 2 QUARTERS	-	0
5	REHABILITATION OF ONE TYPE 1 QUARTER	-	
6	SOLAR POWERED BORE HOLE AND WATER SUPPLY	-	
	SUBTOTAL	-	
	CONTINGENCIES	-	
	<b>BAIDU CUSTOM QUARTERS CARRIED TO SAMPLE FORM OF BID</b>	-	