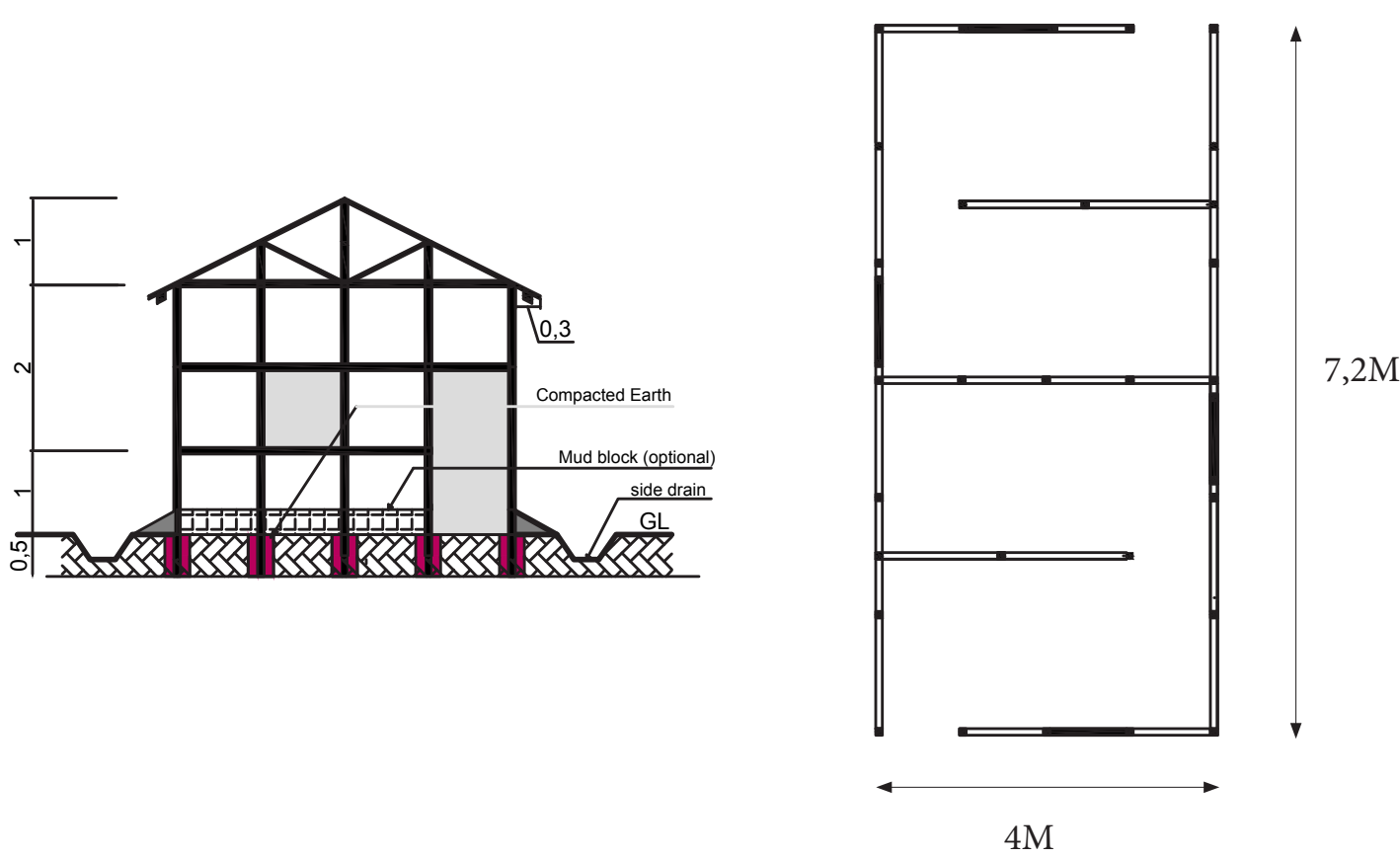


TRANSITIONAL SHELTER _ BAKASI MODEL

The Bakasi shelter was agreed by the sector in late 2015. The design was originally conceived for a relocation project on a clean site (Bakasi Camp), and to inform a wider drive for raising and harmonizing shelter standards across Maiduguri’s camps.

- The reinforced shelter is designed for use in the urban areas of the Maiduguri Metropolitan Area, where there is **easy and stable access**, and where **people are expected to remain for some time**.
- The shelter has a robust frame with doors and windows, requisite fixings and tools, concrete foundations and CGI roofing and tarpaulin wall covering.
- Construction should be overseen throughout the project, ideally **beneficiary or community driven construction**, with adequate training and monitoring. However, if time and conditions do not allow for the requisite level of community engagement and mobilisation, the shelter construction can and has been contractor driven.
- The shelter has an intended life-span of **2 - 3 years** (with maintenance and periodic replacement of walls, which are tarpaulin).
- The reinforced shelter has a cost band of **USD 800 - 950**.
- Key design considerations included suitability for urban environment; climate suitability for the heat and the rains; durability.



No.	Description	Unit	Quantity	Estimated Cost (NGN)		Estimated Cost (USD)	
				Unit Cost (NGN)	Total Cost (NGN)	Unit Cost (USD)	Total Cost (USD)
1	4"x2"x12' Obeche	Pcs	25.00	715.00	17,875.00	2.27	56.75
2	3"x2"x12' Oro	Pcs	64.00	495.00	31,680.00	1.57	100.57
3	2"x2"x12' Oro	Pcs	20.00	330.00	6,600.00	1.05	20.95
4	1"x4"x12' Oro	Pcs	8.00	660.00	5,280.00	2.10	16.76
5	Battens 12'	Bundle	2.00	3,500.00	7,000.00	11.11	22.22
6	Galvanized iron (zinc) 1'X10'X0.15mm (ridge cap)	Pcs	2.00	800.00	1,600.00	2.54	5.08
7	Galvanized iron (zinc) Roofing sheet 2'X8'X0.15mm	Bundle	2.00	24,000.00	48,000.00	76.19	152.39
8	Mosquito net (33MX1.2M)	Roll	0.25	10,450.00	2,612.50	33.18	8.29
9	Nails 4"	Lbs.	19.00	220.00	4,180.00	0.70	13.27
10	Nails 3"	Lbs.	10.00	220.00	2,200.00	0.70	6.98
11	Nails 2"	Lbs.	5.00	220.00	1,100.00	0.70	3.49
12	Nails 1 1/2"	Lbs.	4.00	250.00	1,000.00	0.79	3.17
13	Cap nails	Packet	2.00	1,870.00	3,740.00	5.94	11.87
14	Hinges 4"x4"	Pair	2.00	165.00	330.00	0.52	1.05
15	Hinges 3"x3"	Pair	4.00	110.00	440.00	0.35	1.40
16	Sand for masonry work	Cu M	0.60	1,265.00	759.00	4.02	2.41
17	Cement brick 18'X6'X6'	Pcs	45.00	132.00	5,940.00	0.42	18.86
18	Cement 50 kg.Bag	Bag	2.00	2,640.00	5,280.00	8.38	16.76
19	3/4" Matels for concreet	Cu M	0.60	16,500.00	9,900.00	52.38	31.43
20	4 Lts cans	Can	1.00	3,850.00	3,850.00	12.22	12.22
21	Tarpaulin	Pcs	6.00	6,930.00	41,580.00	22.00	132.00
22	Wind security (Langa langa) - 1.5m length	Pcs	4.00	220.00	880.00	0.70	2.79
23	Water and miscellanies	LS	1.00	3,850.00	3,850.00	12.22	12.22
24	Backfilling sand	truck	2.00	13,200.00	26,400.00	41.91	83.81
25	Labour charges	Job	1.00	34,000.00	34,000.00	107.94	107.94
Total					266,076.50		844.71

