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Having a non-architectural engineering background, I emphasized on bringing in fresh & innovative approach in construction-planning, so that it can offer a "REAL SOLUTION" (damn cheap + secure + sustainable + durable). Entire Cost = \$255.50 only!

CONSTRUCTION COST					
<u>Earth Bag Foundation + Earth Bag Load-Bearing Structure :</u>					
1	Gravel in Foundation-Trench	Vol. 2 tons	=	Cost: \$ 10.00	
2	Scoria Fill in Foundation Bed	Vol. 5 tons	=	Cost: \$ 25.00	
3	Misprinted Rice-Bags	Qty. 400	=	Cost: \$ 60.00	
4	Four-Point Barbed Wire	Dim. 200 ft.	=	Cost: \$ 12.50	
<u>Paper Crete Wall Finish :</u>					
1	Total Internal Surface Area (calculated earlier)	Qty. 154 sq. ft.	=	Compensated Cost: \$ 31.00	
	Paper Crete + Portland Cement Mixture	Cost: (154 x \$1.5) = \$ 231.00	}	= \$ 231 - \$ 200 = \$ 31.00	
	[This amt. of paper crete can be generated with the help of 800 Kgs of recycled paper which costs = (800 x \$ 0.25) = \$ 200.00]				
2	Stucco / Portland Cement / Rub-R-Slate	Qty. 6 bags	=	Cost: \$ 30.00	
<u>Reciprocal Roof ; Door & Window Frames :</u>					
1	Reciprocal Frame (self-built, wooden)	Qty. 1	=	Cost: \$ 0.00	
	Rubber Sheet / Fabric Membrane over it	Qty. 1	=	Cost: \$ 5.00	
2	Door Frame (self-built, wooden)	Qty. 1	=	Cost: \$ 0.00	
3	Window Frames (self-built, wooden)	Qty. 2	=	Cost: \$ 0.00	
4	Nails	Amt. 1	=	Cost: \$ 2.50	
5	Sealer	Amt. 1 quart	=	Cost: \$ 5.00	
<u>Adobe & Flagstone Floor :</u>					
1	Adobe	Vol. 12 tons	=	Cost: \$ 30.00	
2	Flagstone (can be found naturally)	Qty. 60 tiles (medium)	=	Cost: \$ 0.00	
<u>Cooking Space & Rest Chamber Separated by a Curtain :</u>					
1	Cheap Cottrell Precipitator			Cost: \$ 22.00	
2	Hobo Stove (Self-Built, from discarded Tin-Can)			Cost : \$ 0.00	
3	Freedom Water Filter (originated to facilitate poors in Bangladesh, India)			Cost : \$ 4.50	
4	Folding Bed			Cost : \$ 18.00	
5	Folding Chair			Cost : \$ 10.00	
Total Cost Estimation				=	\$ 255.50

- Solution**
- KEY - POINTS**
- CONSTRUCTION PLAN :
- Earth Bag Foundation + Earth Bag Load-Bearing Structure
 - Paper Crete + Stucco Wall Finish (latex coating in wall-exterior without primer)
 - Reciprocal Roof Structure (With Rubber Sheet Protective Cover)
 - Door and Window Frames - Wooden, Self-Built
 - Adobe Floor with Flagstones
- POTENTIAL OPTIONS FOR FLEXIBILITIES IN CONSTRUCTION :
- Modification needed for cycle/storm prone coastal area; modification needed for earthquake prone zones; some

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Creative's profile



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