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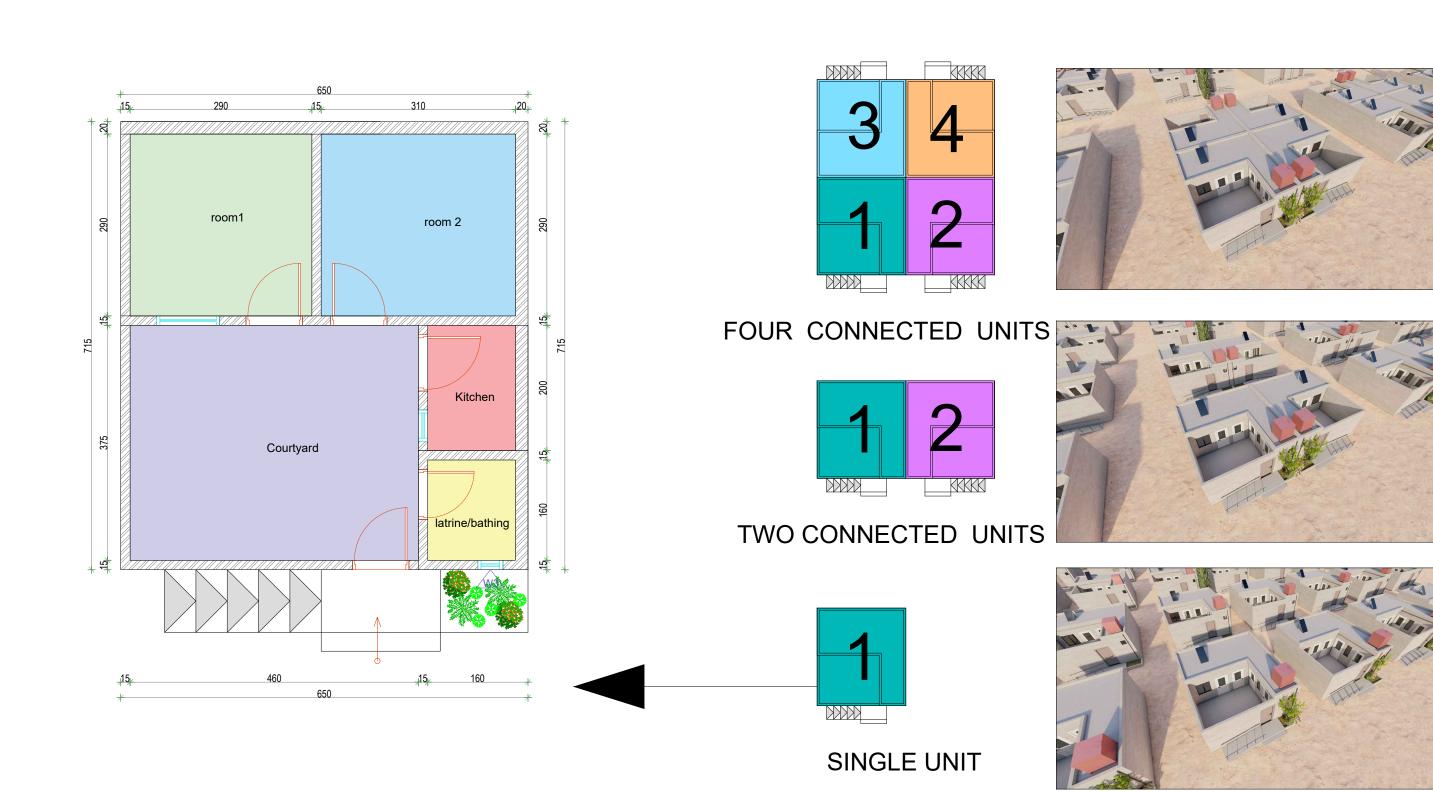
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Dignified shelter-For average size family Concrete Block Shelter Unit



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AVERAGE SIZED FAMILY SHELTER Date: May 2024 P0 Checked by: SNEI Cluster team Scale:				
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Concrete block



	AVERAGE SIZED FAMILY SHELTER				
ī	Date :	May 2024	P1		
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SINGLE UNIT





TWO CONNECTED UNITS

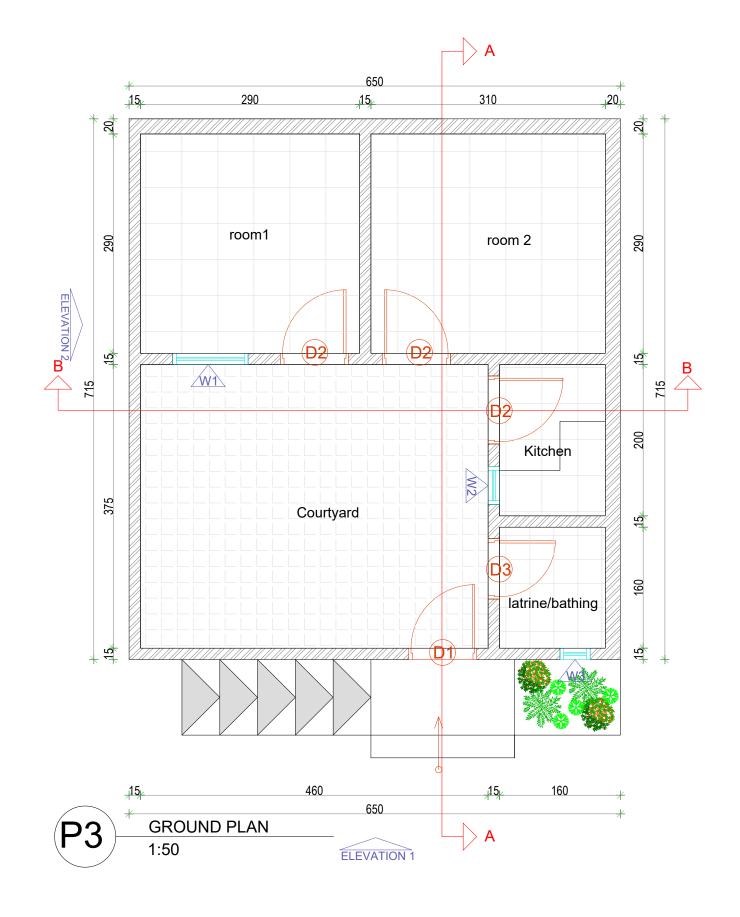




FOUR CONNECTED UNITS

NW SYRIA X-BORDER SHELTER/NFI CLUSTER
ng Humanitarian Shelter and Settlements

AVERAGE SIZEL	FAMILY SHELTER



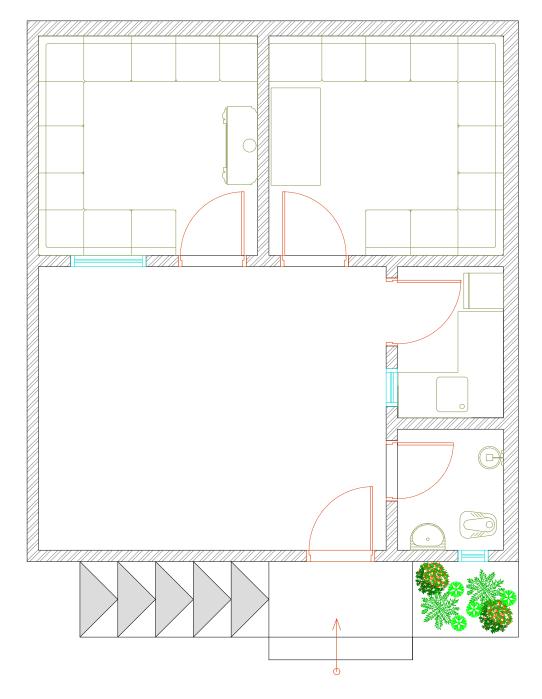
SUMMARY INFORMATION

Covered living space in m2 (excluding separate WASH facilities or separate cooking areas and private enclosed outdoor spaces)	17.5 m2
Area of WASH facilities	2.2m2
Area of kitchen facilities	2.8m2
Private outdoor area	Yes
Household private WASH facilities	Yes
Household cooking facilities	Yes
Materials	Base: Concrete mixture with crushed stone. Walls: Cement bricks Roof: Reinforced Concrete Main door: Iron Internal doors and windows: PVC Plastering: Internal walls
Time to build	250 Units in 12 Weeks 1000 Units in 40 Weeks Including the site preparation and infrastructure works
Anticipated life span	10 years
Total cost	2,400 to 2600 USD
Cost per m2	54 USD

		DOOR SCHEDUL	E	
Mark	Count	Width	Height	Martial
D1	1	90	200	Metal
D2	3	90	200	PVC
D3	1	80	200	PVC

		WINDOWS S	CHEDULE		
Mark	Count	Width	Height	Sill Height	Martial
W1	1	100	110	90	PVC
W2	1	50	110	90	PVC
W3	1	40	40	180	PVC

AVERAGE SIZED FAMILY SHELTER				
Date :	May 2024		P3	
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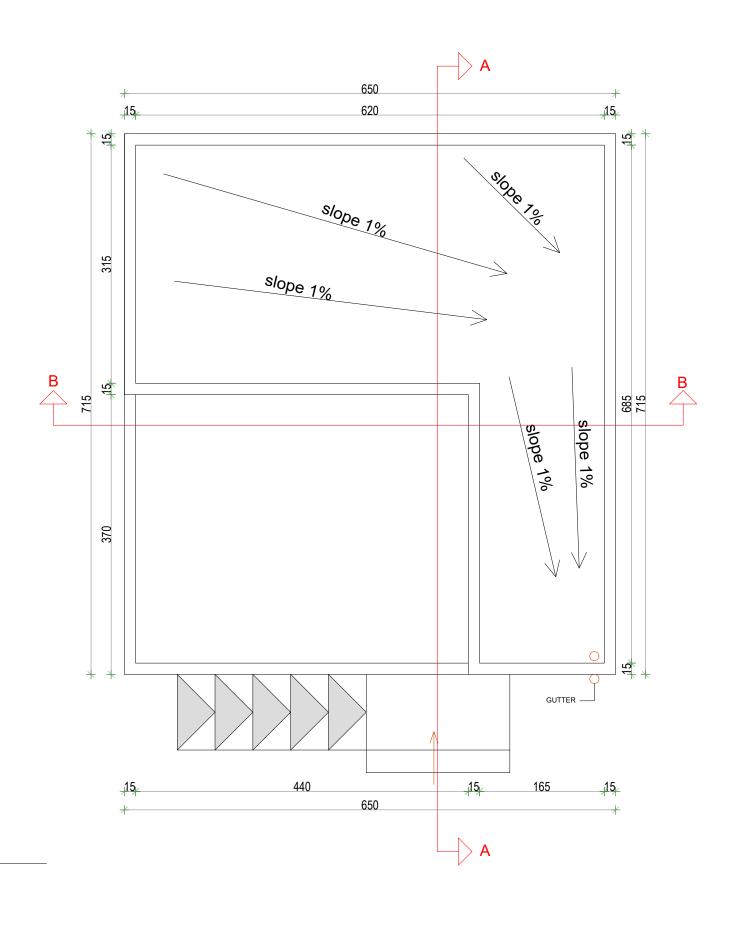






NW SYRIA X-BORDER SHELTER/NFI CLUSTER	
Coordinating Humanitarian Shelter and Settlements	

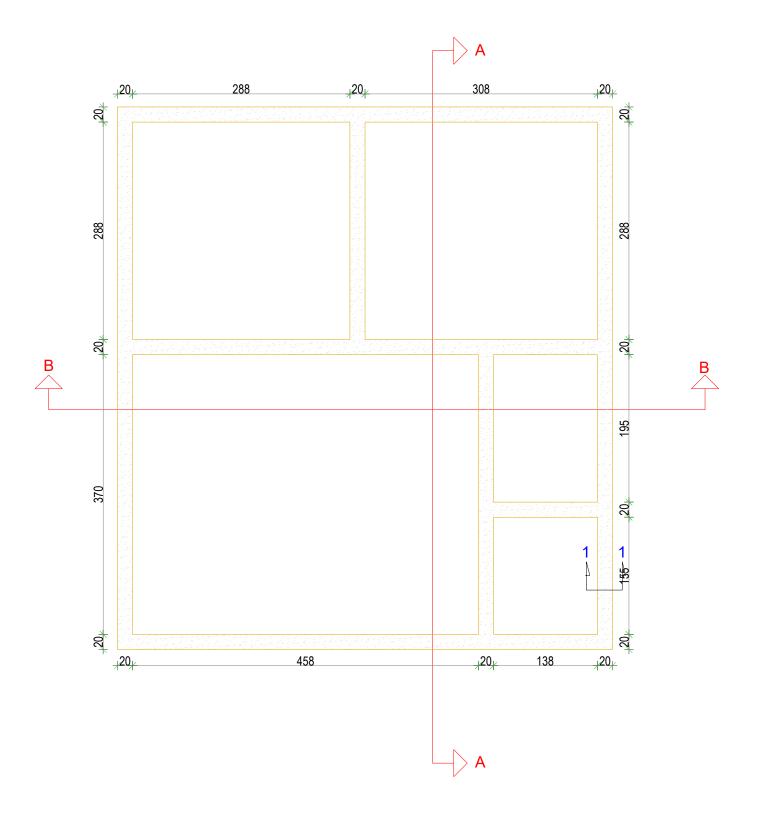
AVERAGE SIZED FAMILY SHELTER					
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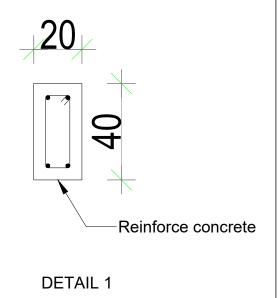


P5 ROOF PLAN
1:50

NW SYRIA X-BORDER
SHELTER/NFI CLUSTER
Coordinating Humanitarian Shelter and Settlements

AVERAGE SIZED FAMILY SHELTER				
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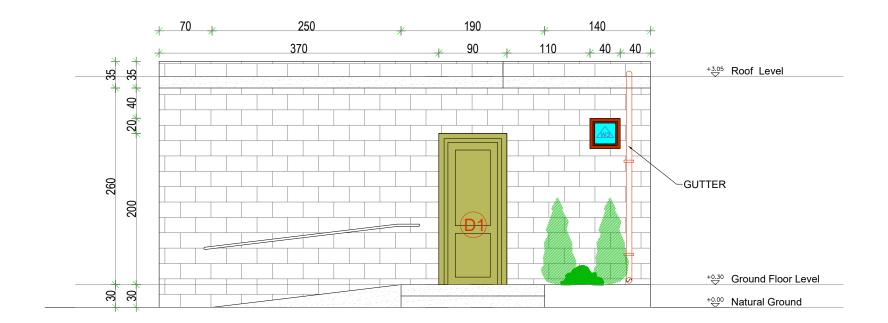
P6

BASE DETAILS

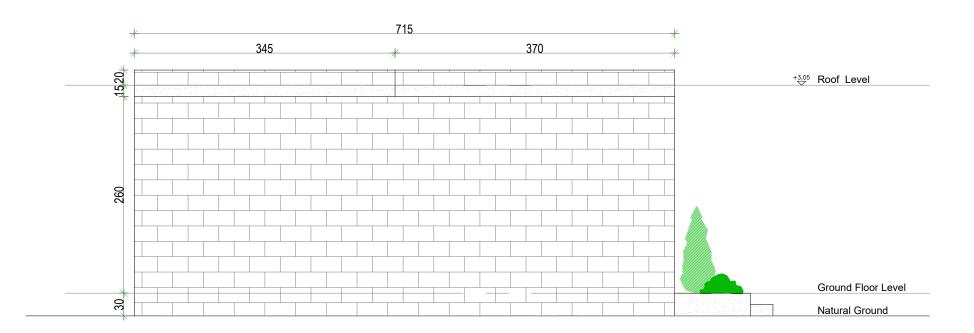
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NW SYRIA X-BORDER SHELTER/NFI CLUSTER
ng Humanitarian Shelter and Settlements

AVERAGE SIZED FAMILY SHELTER					
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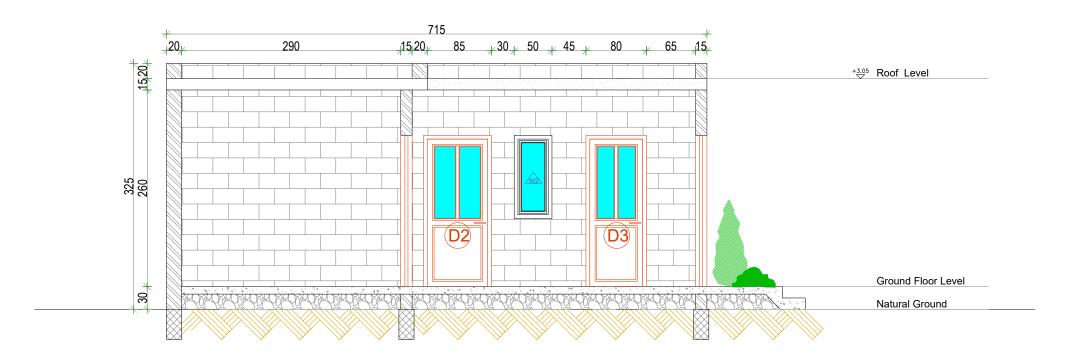


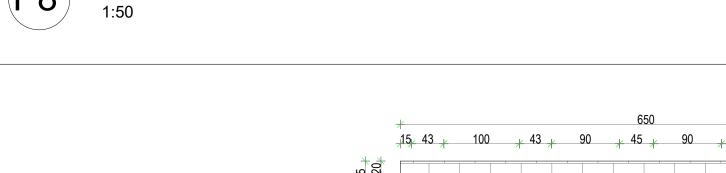


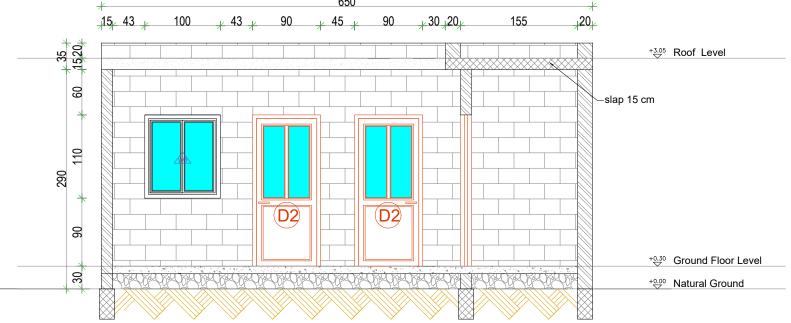


NW SYRIA X-BORDER SHELTER/NFI CLUSTER
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ing Humanitarian Shelter and Settlements

	AVERAGE SIZED FAMILY SHELTER					
3	Date :	May 2024		P7		
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P8 SECTION B
1:50

SECTION A

	NW SYRIA X-BORDER SHELTER/NFI CLUSTER
Coordinati	ng Humanitarian Shelter and Settlements

	AVERAGE SIZED FAMILY SHELTER						
3	Date :	May 2024		P8			
S	Checked by :	SNFI Cluster team	Scale :	1:50			

	BOQ-I	Dignified shelter/Concrete Block Shelter Unit - APPROXIMATED		
#	ITEM	DESCRIPTION	UNIT	QUANTITY
1		BASE		
1.1	BEDDING	UNDER SLAB ON GRADE - gravel with a size between 0 to 5 cm	M3	8.50
1.2	REINFORCED CONCRETE	(20*40) CM - GROUND BEAMS	M3	3.70
1.3	PLAIN CONCRETE	(20*40) CM - GROUND BEAMS	M3	0.14
1.4	PLAIN CONCRETE	(5) CM THICKNESS - SLAB ON GRADE - 45 m2 area	M3	2.25
2		SHELTER STRUCTURE Including WASH Facilities		
2.1	HOLLOW CONCRETE BLOCKS	(15) CM THICKNESS	M2	96.00
2.2	REINFORCED CONCRETE ROOF	(30.42) M2 - (15) CM THICKNESS - SLAB	M3	4.57
3		SHELTER UNIT-INTERNAL		
3.1	PLASTER - (Kitchen WASH Area)	INTERNAL THREE COATING (BLACK PLASTER)	M2	60.00
3.2	CERAMIC TILE - (Kitchen)	50cm over the wash basin	M2	0.60
3.3	Door Threshold	Under kitchen door (3cm high)	ML	0.80
.4	CERAMIC FLOOR TILE - (Bathroom)	Full floor surface of bathroom	M2	2.40
3.5	Door Threshold	Under bathroom door (3cm high)	ML	0.80
4		FITTINGS AND DOORS		
l.1	Main Door	Iron profiles and metal Sheets	KG	40
4.2	PVC Windows and Doors	(PVC) doors and Windows with frame, first class white color. Section of structural parts min. 6 cm and 2 cm for panels; PVC material should include 1 mm steel along the section, with frame from same specifications, first class metal lock, four metal hinges, first class metal handles, embossed glass thickness 3.5 mm, with thick good quality adhesive cover sheet and PVC lower panel.	m2	8.8
1.3	Squat toilet	CERAMIC squat toilet with all necessary accessories	Pc	1
1.4	Squat Tap	1\2 inch coppered-core	Pc	1
1.5	Wash Basin	CERAMIC Ceramic washbasin (50*40cm) with pedestal, copper drain and hose	Pc	1
1.6	Handwash Water Tap	stainless steel tab, coppered-core, with neck (single input faucet)	Pc	1
4.7	Shower	Two taps shower head coppered-core along with the hot water-cold water mixer, including a water hose/column	Pc	2
1.8	Shower Drainage Hole & Cover	Stainless steel with PVC cover	Pc	2
4.9	Kitchen Sink	STAINLESS STEEL 40 X 60CM one-piece sink, marble 1 mm and concrete layer; the overall thickness is no less 4.5 cm; size 60*120 cm with necessary connections	Pc	1
.10	Marble Concrete Table	FOR SINK kitchen table (for sink) of 1 cm marble layer and min. 4.5 cm concrete layer (60 cm width) fixed by marble adhesive	ML	1
.11	Marble Concrete Stand (stone for sink stand)	4 cm stone (width 60cm and height 80-90) for sink standing	Pc	3
.12	Water supply pipe	drinking water pipelines (PPR) 1/2 inch 20 bar	m	10
.13	Sewerage pipe	4" wastewater pipelines (PVC) min 2.5mm-thick	m	8.4
.14	Water tank	500 litre 500 litre, galvanized steel water tank, 1.2 mm thickness	рс	1
5		LIGHTING SYSTEM		
5.1	SOLAR LIGHTING	SOLAR LIGHTING SYSTEM 1X EXTERNAL SOLAR LIGHTING POINT ABOVE THE DOOR. 4X INTERNAL SOLAR LIGHTING IN LIVING SPACE, KITCHEN AND BATHROOM.	Lump Sum	1

For Excel File Click Here



AVERAGE SIZED FAMILY SHELTER					
Date :	May 2024		P9		
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Concrete Blocks Shelter

> Living area and WASH facilities:

Walls: Concrete blocks

Roof: Reinforced concrete

This shelter type can be constructed using locally available skills and materials. Installation of the shelter should be conducted through an experienced contractor as it requires skilled labour and supervision.

The shelter has strong durability and resistance to high winds, heavy snow, seismic and heavy rains, with low risk of collapse (so long as the shelter unit is not structurally altered from its original design).

- ➤ **The walls** consist of 15 cm concrete blocks (usually covered with cement plaster), providing protection against severe weather conditions with significantly improved sound insulation compared to tent shelters. While the shelter provides good performance in very hot conditions, further thermal insulation can be added to walls, ceiling, and floors by beneficiaries to provide greater thermal comfort throughout the year.
- ➤ **The roof** is made of reinforced concrete with a minimum strength of **25 MPA** to carry and resist the design loads. It is recommended that the roof is sealed and protected to prevent moisture and weather resistance using bitumen sheets, or alternatively asphalt roll or corrugated metal sheets can be used, depending on availability of materials and budget.
- ➤ Water proofing: The shelter includes effective waterproofing measures to protect against water infiltration.

 Proper drainage systems, including downspouts and drains, should be installed to channel rainwater away from the shelter. Rainwater gutters should be incorporated into the roof design.

The shelter offers suitable privacy and protection, thanks to the materials and to the lockable door.

The shelter unit can be connected to sewage and water networks and can be fitted with a 1000-liter water tank placed on the roof over the WASH facilities.

The example layout includes a private enclosed outdoor area which is unshaded. This can be covered by the beneficiaries themselves in the future if required.

- Maintenance requirements: No need for regular maintenance, may be needed to ensure the structural integrity, and any necessary repairs should be conducted promptly.
- Can be disassembled & portable or not? This shelter is not portable, need to be demolishing and may use the debris for roads paving or site levelling in common areas.
- Ability for expansion: The design could be expanded but it requires an engineering guidance and advice.

Modality: Contractor-Cash for Shelter-Cash for work.

For more details see the 3D-video Here



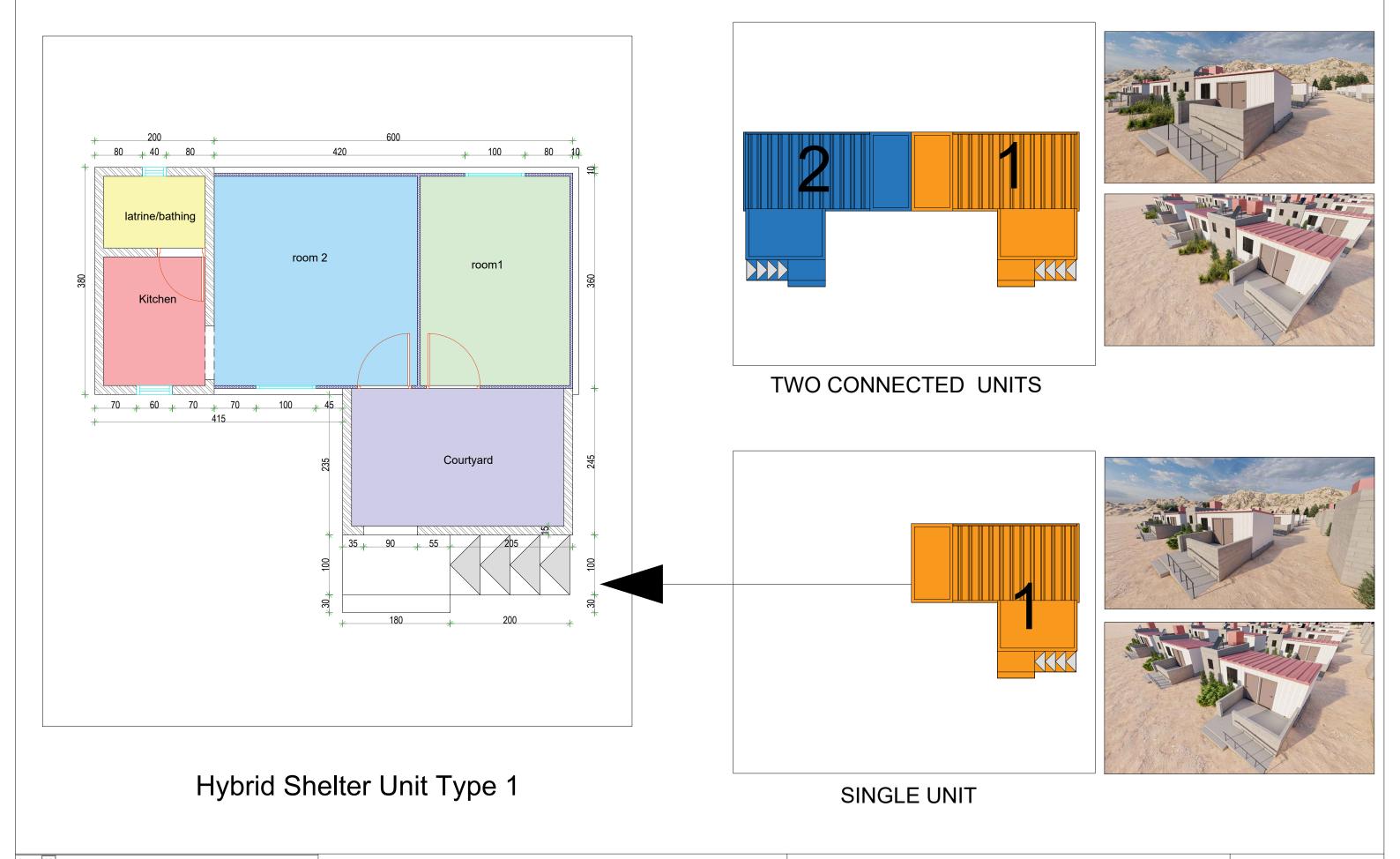
AVERAGE SIZED FAMILY SHELTER				
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Dignified shelter-For average size family Hybrid Shelter Unit Type 1



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P15	FURNITURE PLAN			
P16	ROOF PLAN			
P17	BASE DETAILS			
P18	ELEVATION 1&2			
P19	SECTIONS A&B			
P20	BOQ			
P21	SUMMARY SHEET			

AVERAGE SIZED FAMILY SHELTER					
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TWO CONNECTED UNITS





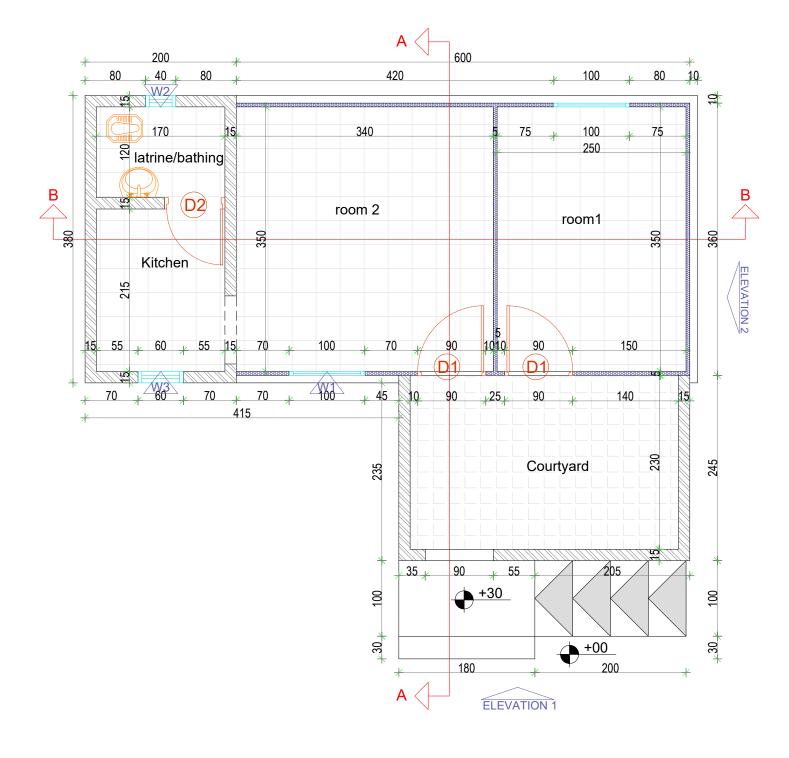
SINGLE UNIT



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Date :	May 2024	P13
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PICTURES

P13



P14 GROUND PLAN
1:50

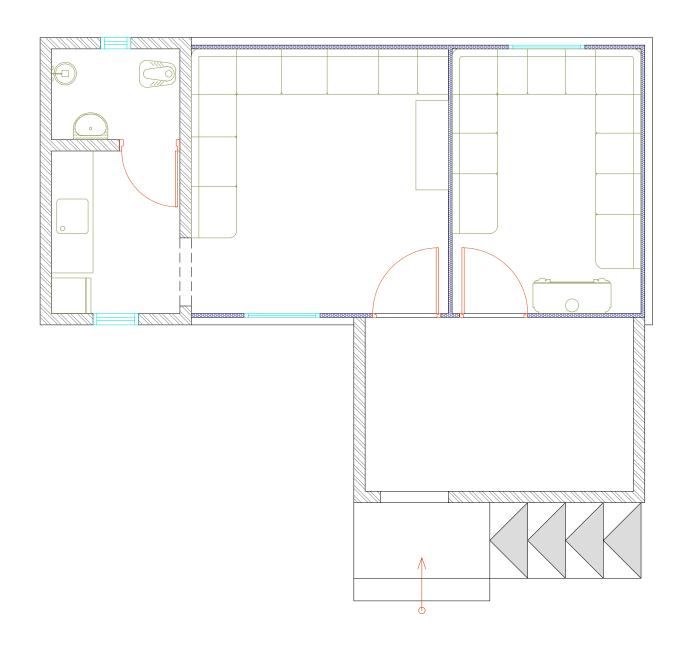
SUMMARY INFORMATION

Covered living space in m2 (excluding separate WASH facilities or separate cooking areas and private enclosed outdoor spaces)	21 m2
Area of WASH facilities	2.7 m2
Area of kitchen facilities	4.8 m2
Private outdoor area	Yes
Household private WASH facilities	Yes
Household cooking facilities	Yes
Materials	Base: Concrete mixture with crushed stone. Walls: Sandwich panel Roof: Sandwich panel + Reinforced Concrete (For WASH facilities) Main door: Metal and sandwich panel Internal doors and windows: PVC Plastering: Internal walls
Time to build	7 Days
Anticipated life span	10 years
Total cost	2,800 to 2,900 USD
Cost per m2	74 USD

DOOR SCHEDULE					
Mark	Count	Width	Height	Martial	
D1	2	90	200	Metal	
D2	1	80	200	PVC	

WINDOWS SCHEDULE						
Mark	Count	Width	Height	Sill Height	Martial	
W1	2	100	110	90	PVC	
W2	1	40	40	180	PVC	
W3	1	60	80	140	PVC	

AVERAGE SIZED FAMILY SHELTER				
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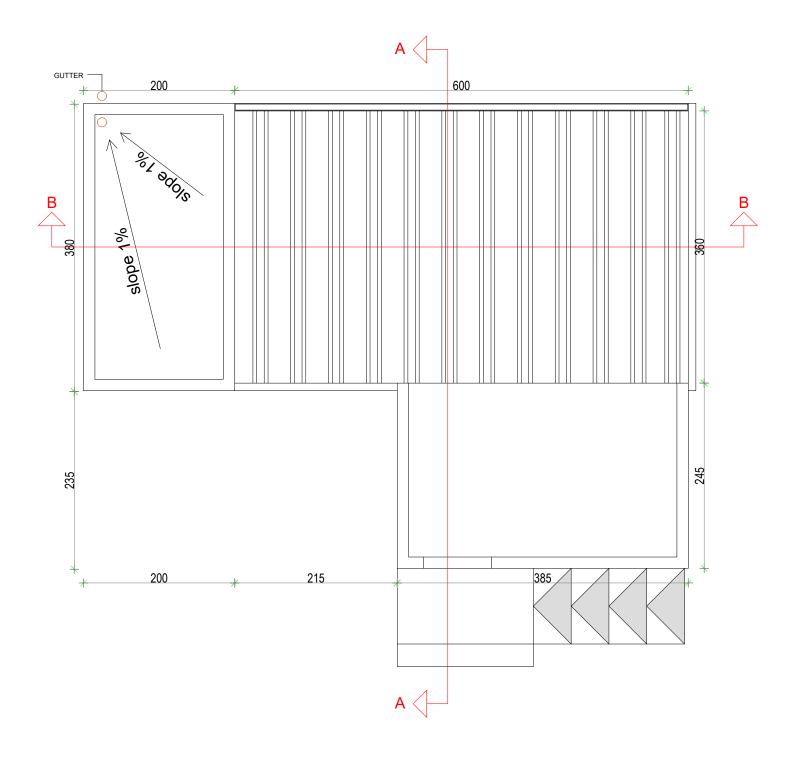




P15 FURNITURE PLAN
1:50



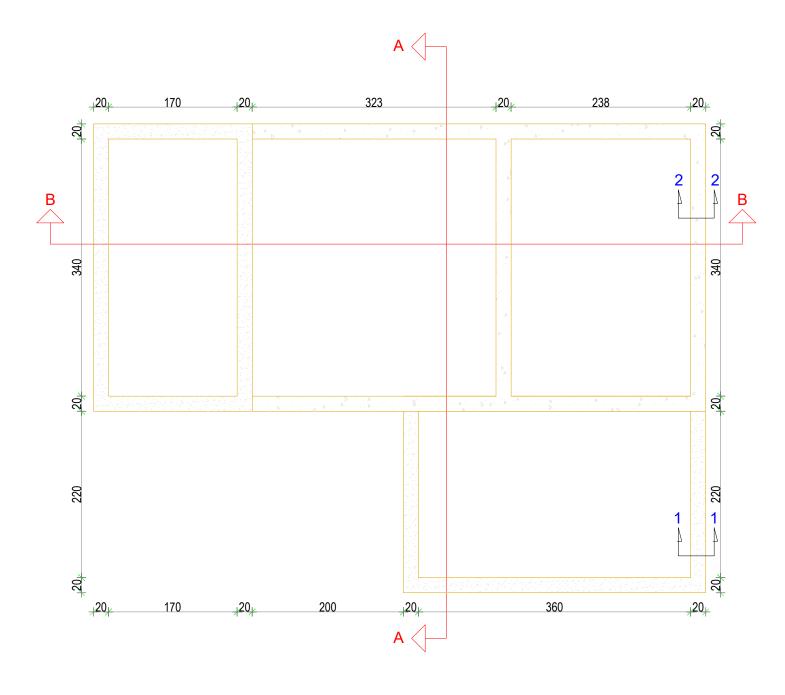
AVERAGE SIZED FAMILY SHELTER				
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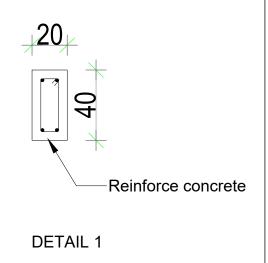


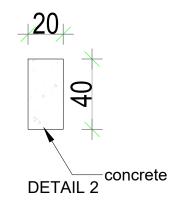
P16 ROOF PLAN
1:50

NW SYRIA X-BORDER SHELTER/NFI CLUSTER	
ng Humanitarian Shelter and Settlements	

AVERAGE SIZED FAMILY SHELTER				
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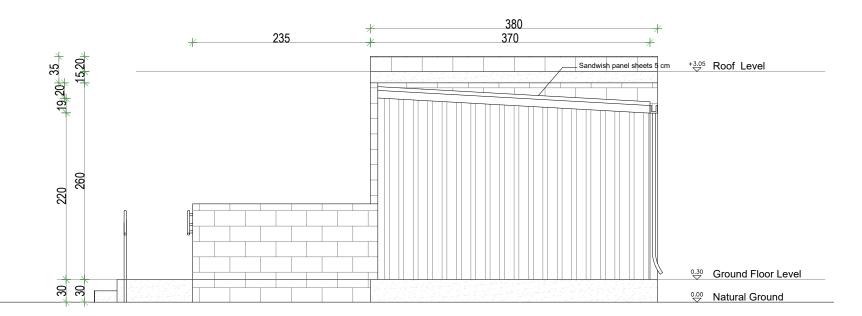
P17 BASE DETAILS
1:50

NW SYRIA X-BORDER SHELTER/NFI CLUSTER
ing Humanitarian Shelter and Settlements

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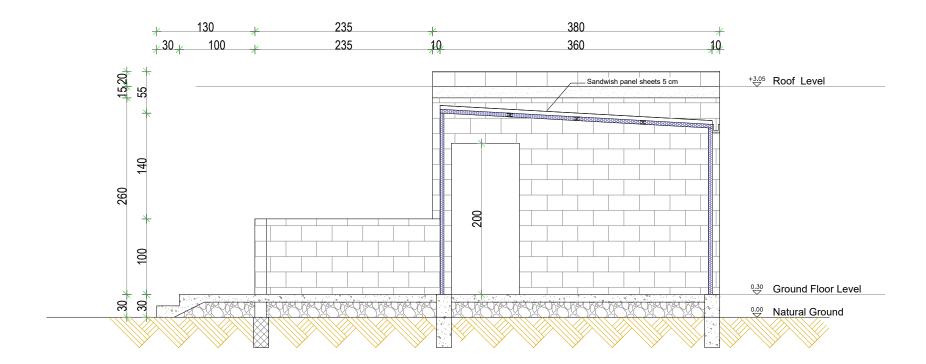
P18 ELEVATION 1 1:50



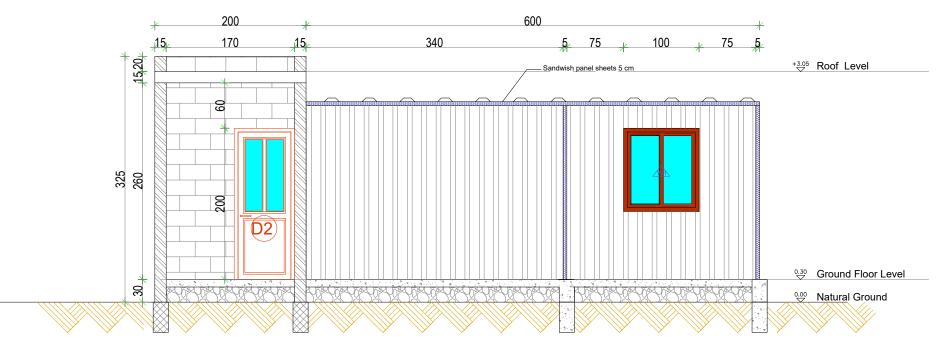
P18 ELEVATION 2 1:50

NW SYRIA X-BORDER SHELTER/NFI CLUSTER
ng Humanitarian Shelter and Settlements

AVE	RAGE SIZED F	AMILY	SHELTER	
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	Date :	Date: May 2024	Date: May 2024	1.50



P19 SECTION A
1:50



P19 SECTION B
1:50

	NW SYRIA X-BORDER SHELTER/NFI CLUSTER
Coordinati	ng Humanitarian Shelter and Settlements

AVERAGE SIZED FAMILY SHELTER						
Date : May 2024 P19						
Checked by : SNFI Cluster team Scale : 1:50						
_	May 2024					

SECTIONS A&B

P19

#	ITEM	Dignified shelter/Hybrid Shelter Unit Type 1 - APPROXIMATED DESCRIPTION	UNIT	QUANTI
•	ITEIVI	BASE	UNIT	QUANTI
	BEDDING (Living Area)+(Kitchen			7.00
1	WASH Area)+(Side area)	UNDER SLAB ON GRADE - gravel with a size between 0 to 5 cm	M3	7.00
2	REINFORCED CONCRETE (Kitchen WASH Area)+(Side area)	(20*40) CM - GROUND BEAMS	M3	1.70
3	PLAIN CONCRETE (Living Area)	(20*40) CM - GROUND BEAMS	M3	1.35
4	PLAIN CONCRETE (Living	(5) CM THICKNESS - SLAB ON GRADE - 39.6 m2 area	M3	0.74
_	Area)+(Kitchen Area)+(Side area)		IVIS	0.74
	HOLLOW CONCRETE BLOCKS (Wet	WASH BLOCK STRUCTURE		
.1	Block)	(15) CM THICKNESS	M2	31.70
2	HOLLOW CONCRETE BLOCKS (Side area)	(15) CM THICKNESS - Short wall (100 cm high)	M2	7.60
3	REINFORCED CONCRETE ROOF	(8.4) M2 - (15) CM THICKNESS - SLAB	M3	1.26
3		WASH BLOCK INTERNAL		
1	PLASTER - (Kitchen WASH Area)	INTERNAL THREE COATING (BLACK PLASTER)	M2	33.00
2	CERAMIC TILE - (Kitchen)	50cm over the wash basin	M2	0.60
.3	Door Threshold	Under kitchen door (3cm high)	ML	0.80
.4	CERAMIC FLOOR TILE - (Bathroom)	Full floor surface of bathroom	M2	2.04
.5	Door Threshold	Under bathroom door (3cm high)	ML	0.80
,		LIVING AREA STRUCTURE (3) RIBBED POLYURETHANE ROOF PANEL (PUR) WITH ALL NEEDED ACCECORIES FOR		
		INSTALLING (SCREWS, etc.)		
		(40) MM INSULATION THICKNESS	M2	
1.1	PUR SANDWICH PANELS FOR ROOF	(0.30) MM INTERNAL RAL 9002 Prepainted galvanized steel (0.30) MM EXTERNAL RAL 9002 Prepainted galvanized steel	SURFACE AREA	20.47
		DENSITY (40) (+ -) (2) KG/M3		
		FIRE CLASS (B S2 d0) (TS EN 13501-1).		
		POLYURETHANE WALL PANEL (PUR) WITH ALL NEEDED ACCECORIES FOR INSTALLING (SCREWS, etc.)		
		(40) MM INSULATION THICKNESS	M2	
1.2	PUR SANDWICH PANELS FOR WALL	(0.30) MM INTERNAL RAL 9002 Prepainted galvanized steel	SURFACE	29.30
		(0.30) MM EXTERNAL RAL 9002 Prepainted galvanized steel	AREA	
		DENSITY (40) (+ -) (2) KG/M3 FIRE CLASS (B S2 d0) (TS EN 13501-1).		
.3	Steel Frame	Galvinized Steel (2 MM Thickness)	KG	350.00
.4	Fixings	Bolt, Screw, EPDM Gasket, Silicone	LS	1
5		LIVING AREA FITTINGS AND DOORS		
.1	Metal chimney outlet	Metal collar and cap for flue hole (4-6 inch)	рс	1
5.2	Main Door	POLYURETHANE WALL PANEL (PUR) DOOR. As per wall specification.	рс	1
		(PVC) doors and Windows with frame, first class white color. Section of structural		
	DVC Mindows and Doors	parts min. 6 cm and 2 cm for panels; PVC material should include 1 mm steel along	2	
5.3	PVC Windows and Doors	the section, with frame from same specifications, first class metal lock, four metal hinges, first class metal handles, embossed glass thickness 3.5 mm, with thick good	m2	1.4
		quality adhesive cover sheet and PVC lower panel.		
6		WASH BLOCK FITTINGS AND DOORS		
.1	Squat toilet	CERAMIC squat toilet with all necessary accessories	Pc	1
.2	Squat Tap	1\2 inch coppered-core	Pc	1
.3	Wash Basin	CERAMIC Coramic washbasin (E0*40cm) with pedestal, copper drain and bese	Pc	1
	Handwash Water Tap	Ceramic washbasin (50*40cm) with pedestal, copper drain and hose stainless steel tab, coppered-core, with neck (single input faucet)	De	1
.4	nanuwasii water rap	Two taps	Pc	1
.5	Shower	shower head coppered-core along with the hot water-cold water mixer, including a	Pc	2
		water hose/column		
5.6	Shower Drainage Hole & Cover	Stainless steel with PVC cover	Pc	2
5.7	Kitchen Sink	STAINLESS STEEL 40 X 60CM one-piece sink, marble 1 mm and concrete layer; the overall thickness is no less 4.5	Pc	1
,.,	KILLIEH SIIIK	cm; size 60*120 cm with necessary connections	rı	1
		FOR SINK		
8.6	Marble Concrete Table	kitchen table (for sink) of 1 cm marble layer and min. 4.5 cm concrete layer (60 cm width) fixed by marble adhesive	ML	1
	Marble Concrete Stand (stone for sink	width) fixed by filarble adriesive		
5.9	stand)	4 cm stone (width 60cm and height 80-90) for sink standing	Pc	3
.10	Water supply pipe	drinking water pipelines (PPR) 1/2 inch 20 bar	m	10
.11	Sewerage pipe	4" wastewater pipelines (PVC) min 2.5mm-thick	m	8.4
		500 litre	рс	
.12	Water tank	500 litre, galvanized steel water tank, 1.2 mm thickness	μι	1
13	Bathroom Window	PVC louvred. PVC louvred thickness of 1.2 mm.	рс	1
14	Bathroom Door	PVC louvred thickness of 1.2 mm. PVC Door	m2	2
		PVC 60x80cm, first class white color. Section of structural parts min. 6 cm; PVC		
		material should include 1 mm steel along the section, with frame from same		
.15	Kitchen Window	specifications, first class metal lock, min. 2 metal hinges for each sash, first class	m2	0.5
		metal handles, embossed glass thickness 3.5 mm, with thick good quality adhesive cover sheet and PVC lower panel.		
		LIGHTING SYSTEM		
7				
7		SOLAR LIGHTING SYSTEM		
7	SOLAR LIGHTING	SOLAR LIGHTING SYSTEM IX EXTERNAL SOLAR LIGHTING POINT ABOVE THE DOOR. 4X INTERNAL SOLAR LIGHTING IN LIVING SPACE, KITCHEN AND BATHROOM.	Lump Sum	1

For Excel File Click Here



AVERAGE SIZED FAMILY SHELTER						
Date : May 2024 P20						
Checked by : SNFI Cluster team Scale :						

Hybrid Shelter Unit Type 1

> Living area:

• Walls: sandwich panels

Roofing: sandwich panels

> WASH area:

Walls: Concrete blocks

Roof: Reinforced concrete

Shelters that combine different construction methods and materials, such as sandwich panels, steel frames, and concrete blocks. It is locally resourced, and the composite frame ensures durability and weather resistance.

The shelter has strong durability and resistance to high winds, heavy snow, seismic and heavy rains, with low risk of collapse (so long as the shelter unit is not structurally altered from its original design). The shelter provides high levels of thermal and sound insulation.

It is recommended that the Shelter unit be positioned on a reinforced concrete foundation, elevated at least 20 cm above the ground to effectively mitigate risks from wet weather.

- > The sandwich panel walls, and roof consist of:
- Preferable metal sheet 0.3 to 0.8mm thickness
- Foam panel thickness minimum 40mm between metal sheets.
- Foam density minimum 38kg/m³
- Fire resistance: European standard Fire Class, minimum B2 fire resistance.
- > Water proofing: The shelter includes effective waterproofing measures to protect against water infiltration. Joints must be sealed effectively using flashing at vulnerable points.
- > Proper drainage systems, including downspouts and drains, should be installed to channel rainwater away from the shelter.
- Rainwater gutters should be incorporated into the roof design.

The WASH facilities made of concrete blocks consist of 15 cm concrete blocks providing protection and adequate privacy.

The roof of the WASH facilities includes reinforced concert Caliber 350 kg/m³ thickness 10 cm, and reinforcement not less than 60 kg/m³. This is suitable to hold a 1,000-liter water tank.

The shelter offers suitable privacy and protection, thanks to the materials and to the lockable door.

The example layout includes an outdoor unshaded courtyard in front of the shelter. This can be further enclosed and covered by beneficiaries themselves in future if required.

- Maintenance requirements: Regular inspections may be needed to ensure the structural integrity, and any necessary repairs or replacements should be conducted promptly.
- Can be disassembled & portable or not? Compared to the other shelter material options, this shelter can more easily be disassembled and portable, providing flexibility in relocation or storage.
- **Ability for expansion:** The design allows for the ability to expand, providing scalability for future needs. This could involve adding additional units or modifying the existing structure to accommodate changing requirements.
- Modality: Contractor-Cash for Shelter-Cash for work.

For more details see the 3D-video Here



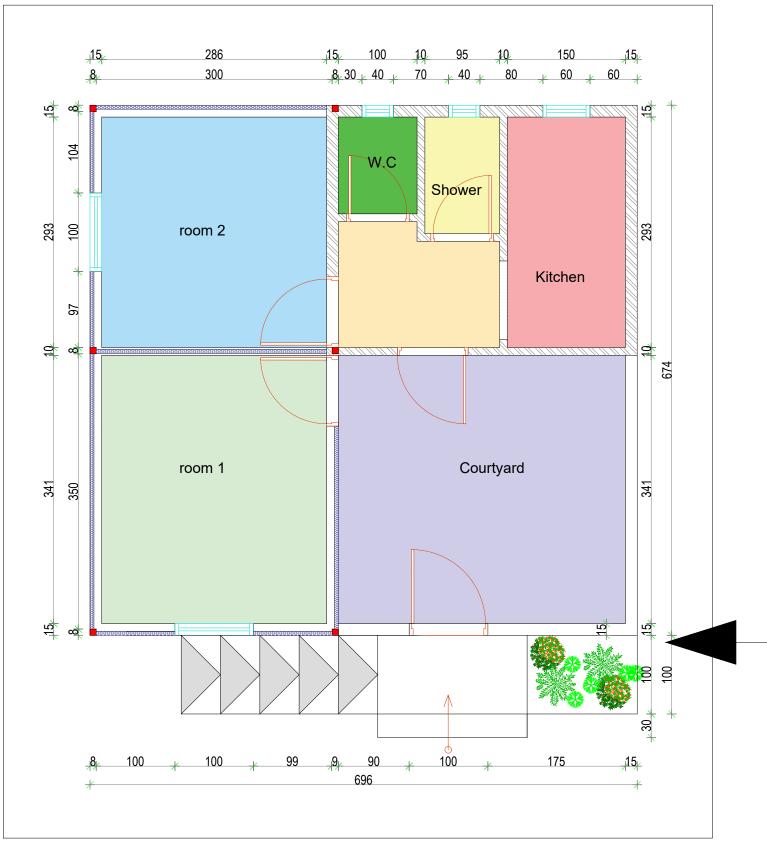
AVERAGE SIZED FAMILY SHELTER				
	May 2024	P21		
d bv :	SNFI Cluster team	Scale:		

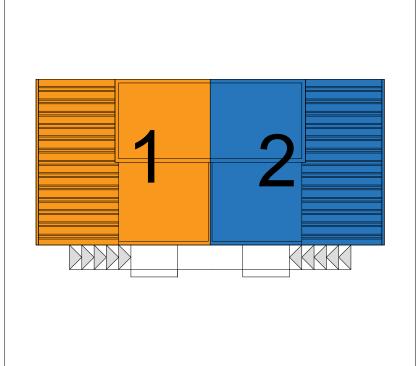
Dignified shelter-For average size family Hybrid Shelter Unit Type 2



SHEET INDEX			
NO	SHEET NAME		
P22	COVER PAGE		
P23	DESIGN CONCEPT		
P24	PICTURES		
P25	GROUND PLAN		
P26	FURNITURE PLAN		
P27	ROOF PLAN		
P28	BASE DETAILS		
P29	ELEVATION 1&2		
P30	SECTIONS A&B		
P31	BOQ		
P32	SUMMARY SHEET		

AVERAGE SIZED FAMILY SHELTER					
Date :	May 2024	P22			
Checked by :	SNFI Cluster team	Scale :			

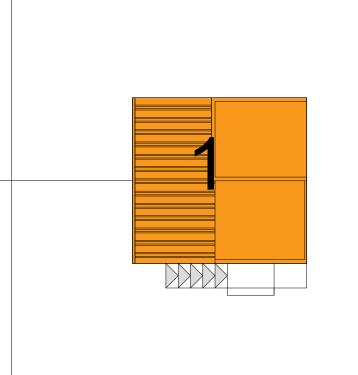








TWO CONNECTED UNITS







SINGLE UNIT

Hybrid Shelter Unit Type 2



AVERAGE SIZED FAMILY SHELTER							
Date :	May 2024	P23					
Checked by :	Checked by : SNFI Cluster team Scale :						





TWO CONNECTED UNITS





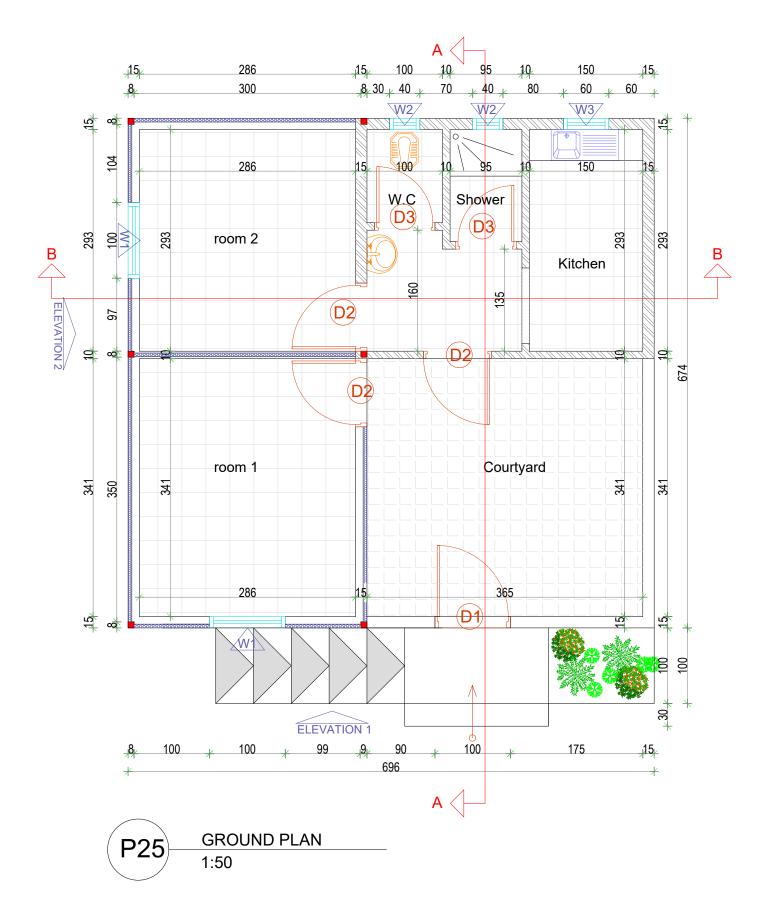
SINGLE UNIT



AVERAGE SIZED FAMILY SHELTER						
Date : May 2024 P24						
Checked by : SNFI Cluster team Scale :						

PICTURES

P24



SUMMARY INFORMATION

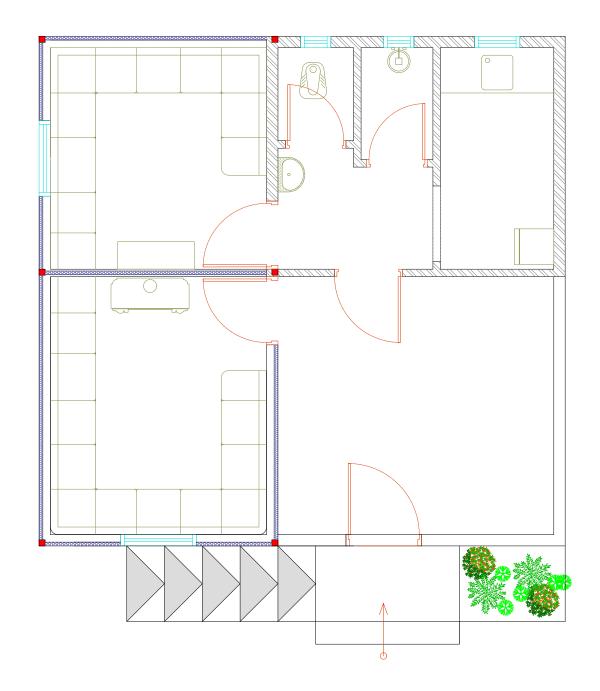
Covered living space in m2 (excluding separate WASH facilities or separate cooking areas and private enclosed outdoor spaces)	21.5 m2
Area of WASH facilities	3.5m2
Area of kitchen facilities	4.8m2
Private outdoor area	Yes
Household private WASH facilities	Yes
Household cooking facilities	Yes
Materials	Base: Concrete mixture with crushed stone. Walls: Cement bricks + Sandwich panel Roof: Sandwich panel + Reinforced Concrete (For WASH facilities) Main door: Iron Internal doors and windows: PVC Plastering: Internal walls
Time to build	12 Days
Anticipated life span	10 years
Total cost	2,700 to 2900 USD
Cost per m2	62.5 USD

	DOOR SCHEDULE					
Mark Count Width Height Mark						
D1	1	100	200	Metal		
D2	3	90	200	PVC		
D3	2	80	200	PVC		

	WINDOWS SCHEDULE						
Mark	Count	Width	Height	Sill Height	Martial		
W1	2	100	110	90	PVC		
W2	2	40	40	180	PVC		
W3	1	60	80	140	PVC		



AVE	ERAGE SIZED F	AMILY	SHELTER	
Date :	May 2024		P25	
Checked by :	SNFI Cluster team	Scale :	1:50	



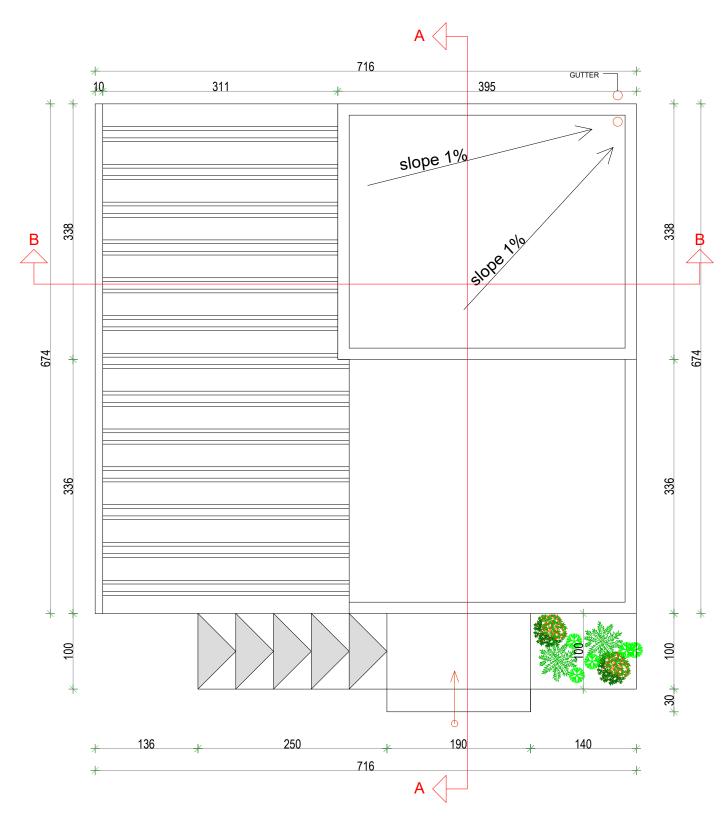




P26 FURNITURE PLAN
1:50

	NW SYRIA X-BORDER SHELTER/NFI CLUSTER
Coordinati	ng Humanitarian Shelter and Settlements

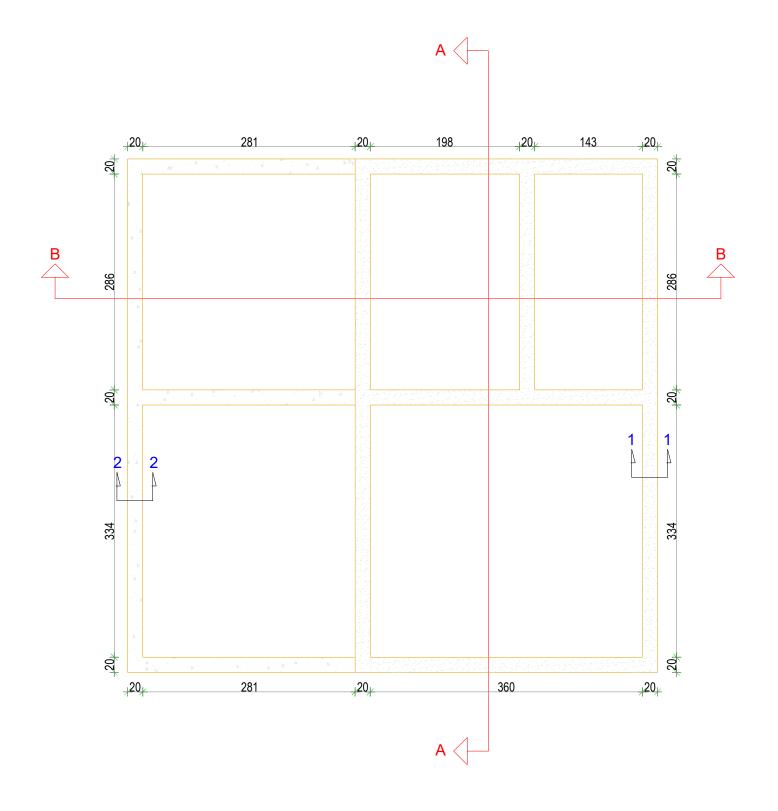
AVE	RAGE SIZED F	AMILY	SHELTER	
Date :	May 2024		P26	
Checked by :	SNFI Cluster team	Scale :	1:50	

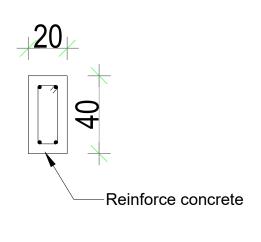


P27 ROOF PLAN
1:50

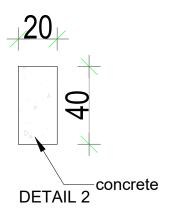
	NW SYRIA X-BORDER SHELTER/NFI CLUSTER	
Coordinati	ng Humanitarian Shelter and Settlements	

	A۷	ERAGE SIZED F	AMILY	SHELTER	
	Date :	May 2024		P27	
i	Checked by :	SNFI Cluster team	Scale :	1:50	





DETAIL 1



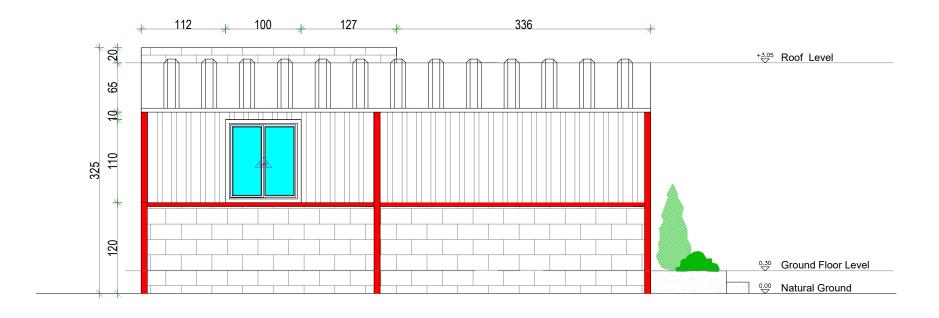
P28 BASE DETAILS
1:50

NW SYRIA X-BORDER SHELTER/NFI CLUSTER
ing Humanitarian Shelter and Settlements

	AVE	ERAGE SIZED F	AMILY	SHELTER	
2	Date :	May 2024		P28	
S	Checked by :	SNFI Cluster team	Scale :	1:50	



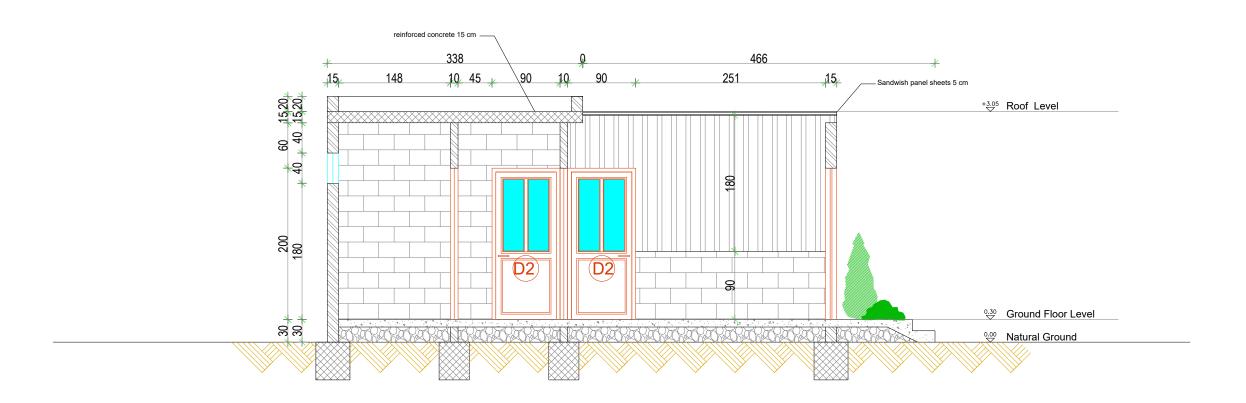
P29 ELEVATION 1
1:50



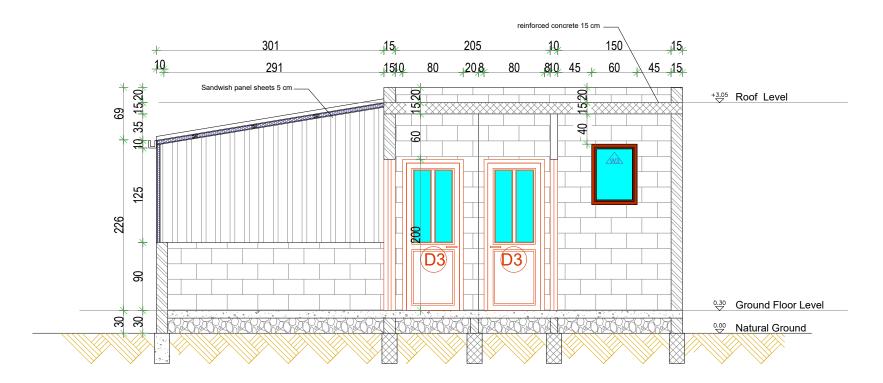
P29 ELEVATION 2 1:50

	NW SYRIA X-BORDER SHELTER/NFI CLUSTER
Coordinati	ng Humanitarian Shelter and Settlements

	A	VERAGE SIZED F	AMILY	SHELTER	
	Date :	May 2024		P28	
5	Checked by :	SNFI Cluster team	Scale :	1:50	
					•



P30 SECTION A 1:50



P30 SECTION B
1:50

	NW SYRIA X-BORDER SHELTER/NFI CLUSTER
Coordinati	ng Humanitarian Shelter and Settlements

	AVE	RAGE SIZED F	AIVIILY	SHELIER	
?	Date :	May 2024		P29	
S	Checked by :	SNFI Cluster team	Scale :	1:50	

	BUQ-I	Dignified shelter/Hybrid Shelter Unit Type 2 - APPROXIMATED		
#	ITEM	DESCRIPTION	UNIT	QUANTITY
1		BASE		
1.1	BEDDING (Living Area)+(Kitchen WASH Area)+(Courtyard)	UNDER SLAB ON GRADE - gravel with a size between 0 to 5 cm	M3	6.20
1.2	REINFORCED CONCRETE (Kitchen WASH Area)+(Courtyard)	(20*40) CM - GROUND BEAMS	M3	2.45
1.3	PLAIN CONCRETE (Kitchen WASH Area)	(20*40) CM - GROUND BEAMS	M3	0.48
1.4	PLAIN CONCRETE (Living Area)+(Kitchen Area)+(Courtyard)	(5) CM THICKNESS - SLAB ON GRADE - 43.5 m2 area	М3	0.87
2		WASH BLOCK+Courtyard STRUCTURE		
2.1	HOLLOW CONCRETE BLOCKS (Wet Block)	(15) CM THICKNESS	M2	25.00
2.2	HOLLOW CONCRETE BLOCKS (Wet Block)	(10) CM THICKNESS	M2	18.50
2.3	HOLLOW CONCRETE BLOCKS (Courtyard)	(15) CM THICKNESS - (260 cm high)	M2	16.80
2.4	REINFORCED CONCRETE ROOF	(14.3) M2 - (15) CM THICKNESS - SLAB	M3	2.14
3	DIACTED (W) I MACH A	WASH BLOCK INTERNAL		
3.1	PLASTER - (Kitchen WASH Area)	INTERNAL THREE COATING (BLACK PLASTER)	M2	43.25
3.2	CERAMIC TILE - (Kitchen)	50cm over the wash basin	M2	0.60
3.3	Door Threshold	Under all doors of wet block (3cm high)	ML	4.00
3.4	CERAMIC FLOOR TILE - (Bathroom)+(WC)	Full floor surface of bathroom and WC	M2	2.50
4		LIVING AREA STRUCTURE		
4.1	PUR SANDWICH PANELS FOR ROOF	(3) RIBBED POLYURETHANE ROOF PANEL (PUR) WITH ALL NEEDED ACCECORIES FOR INSTALLING (SCREWS, etc.) (40) MM INSULATION THICKNESS (0.30) MM INTERNAL RAL 9002 Prepainted galvanized steel (0.30) MM EXTERNAL RAL 9002 Prepainted galvanized steel DENSITY (40) (+-) (2) KG/M3 FIRE CLASS (B S2 d0) (TS EN 13501-1).	M2 SURFACE AREA	21.90
4.2	PUR SANDWICH PANELS FOR WALL	POLYURETHANE WALL PANEL (PUR) WITH ALL NEEDED ACCECORIES FOR INSTALLING (SCREWS, etc.) (40) MM INSULATION THICKNESS (0.30) MM INTERNAL RAL 9002 Prepainted galvanized steel (0.30) MM EXTERNAL RAL 9002 Prepainted galvanized steel DENSITY (40) (+-) (2) KG/M3 FIRE CLASS (B S2 d0) (TS EN 13501-1).	M2 SURFACE AREA	13.50
4.3	Steel Frame	Galvinized Steel (2 MM Thickness)	KG	315.00
4.4	HOLLOW CONCRETE BLOCKS	(15) CM THICKNESS - (100 cm high)	M2	9.80
4.5	HOLLOW CONCRETE BLOCKS	(10) CM THICKNESS - Partition wall	M2	6.00
4.6	Fixings	Bolt, Screw, EPDM Gasket, Silicone	LS	1
5		LIVING AREA FITTINGS AND DOORS		
5 5.1	Metal chimney outlet	LIVING AREA FITTINGS AND DOORS Metal collar and cap for flue hole (4-6 inch)	рс	1
	Metal chimney outlet Main Door	Metal collar and cap for flue hole (4-6 inch) POLYURETHANE WALL PANEL (PUR) DOOR. As per wall specification.	pc pc	1 1
5.1		Metal collar and cap for flue hole (4-6 inch)		
5.1	Main Door	Metal collar and cap for flue hole (4-6 inch) POLYURETHANE WALL PANEL (PUR) DOOR. As per wall specification. (PVC) doors and Windows with frame, first class white color. Section of structural parts min. 6 cm and 2 cm for panels; PVC material should include 1 mm steel along the section, with frame from same specifications, first class metal lock, four metal hinges, first class metal handles, embossed glass thickness 3.5 mm, with thick good	рс	1
5.1 5.2 5.3	Main Door	Metal collar and cap for flue hole (4-6 inch) POLYURETHANE WALL PANEL (PUR) DOOR. As per wall specification. (PVC) doors and Windows with frame, first class white color. Section of structural parts min. 6 cm and 2 cm for panels; PVC material should include 1 mm steel along the section, with frame from same specifications, first class metal lock, four metal hinges, first class metal handles, embossed glass thickness 3.5 mm, with thick good quality adhesive cover sheet and PVC lower panel.	рс	1
5.1 5.2 5.3	Main Door PVC Windows and Doors	Metal collar and cap for flue hole (4-6 inch) POLYURETHANE WALL PANEL (PUR) DOOR. As per wall specification. (PVC) doors and Windows with frame, first class white color. Section of structural parts min. 6 cm and 2 cm for panels; PVC material should include 1 mm steel along the section, with frame from same specifications, first class metal lock, four metal hinges, first class metal handles, embossed glass thickness 3.5 mm, with thick good quality adhesive cover sheet and PVC lower panel. WASH BLOCK FITTINGS AND DOORS	pc m2	5.8
5.1 5.2 5.3 6 6.1	Main Door PVC Windows and Doors Squat toilet	Metal collar and cap for flue hole (4-6 inch) POLYURETHANE WALL PANEL (PUR) DOOR. As per wall specification. (PVC) doors and Windows with frame, first class white color. Section of structural parts min. 6 cm and 2 cm for panels; PVC material should include 1 mm steel along the section, with frame from same specifications, first class metal lock, four metal hinges, first class metal handles, embossed glass thickness 3.5 mm, with thick good quality adhesive cover sheet and PVC lower panel. WASH BLOCK FITTINGS AND DOORS CERAMIC squat toilet with all necessary accessories	pc m2	5.8
5.1 5.2 5.3 6 6.1 6.2	Main Door PVC Windows and Doors Squat toilet Squat Tap	Metal collar and cap for flue hole (4-6 inch) POLYURETHANE WALL PANEL (PUR) DOOR. As per wall specification. (PVC) doors and Windows with frame, first class white color. Section of structural parts min. 6 cm and 2 cm for panels; PVC material should include 1 mm steel along the section, with frame from same specifications, first class metal lock, four metal hinges, first class metal handles, embossed glass thickness 3.5 mm, with thick good quality adhesive cover sheet and PVC lower panel. WASH BLOCK FITTINGS AND DOORS CERAMIC squat toilet with all necessary accessories 1\2 inch coppered-core CERAMIC	pc m2 Pc Pc	1 5.8 1 1
5.1 5.2 5.3 6 6.1 6.2 6.3	Main Door PVC Windows and Doors Squat toilet Squat Tap Wash Basin	Metal collar and cap for flue hole (4-6 inch) POLYURETHANE WALL PANEL (PUR) DOOR. As per wall specification. (PVC) doors and Windows with frame, first class white color. Section of structural parts min. 6 cm and 2 cm for panels; PVC material should include 1 mm steel along the section, with frame from same specifications, first class metal lock, four metal hinges, first class metal handles, embossed glass thickness 3.5 mm, with thick good quality adhesive cover sheet and PVC lower panel. WASH BLOCK FITTINGS AND DOORS CERAMIC squat toilet with all necessary accessories 1\2 inch coppered-core CERAMIC Ceramic washbasin (50*40cm) with pedestal, copper drain and hose stainless steel tab, coppered-core, with neck (single input faucet) Two taps shower head coppered-core along with the hot water-cold water mixer, including a	pc m2 Pc Pc Pc	1 5.8 1 1
5.1 5.2 5.3 6 6.1 6.2 6.3 6.4 6.5	Main Door PVC Windows and Doors Squat toilet Squat Tap Wash Basin Handwash Water Tap Shower	Metal collar and cap for flue hole (4-6 inch) POLYURETHANE WALL PANEL (PUR) DOOR. As per wall specification. (PVC) doors and Windows with frame, first class white color. Section of structural parts min. 6 cm and 2 cm for panels; PVC material should include 1 mm steel along the section, with frame from same specifications, first class metal lock, four metal hinges, first class metal handles, embossed glass thickness 3.5 mm, with thick good quality adhesive cover sheet and PVC lower panel. WASH BLOCK FITTINGS AND DOORS CERAMIC squat toilet with all necessary accessories 1\2 inch coppered-core CERAMIC Ceramic washbasin (50*40cm) with pedestal, copper drain and hose stainless steel tab, coppered-core, with neck (single input faucet) Two taps shower head coppered-core along with the hot water-cold water mixer, including a water hose/column	pc m2 Pc Pc Pc Pc Pc	1 5.8 1 1 1 1 2
5.1 5.2 5.3 6 6.1 6.2 6.3 6.4	Main Door PVC Windows and Doors Squat toilet Squat Tap Wash Basin Handwash Water Tap	Metal collar and cap for flue hole (4-6 inch) POLYURETHANE WALL PANEL (PUR) DOOR. As per wall specification. (PVC) doors and Windows with frame, first class white color. Section of structural parts min. 6 cm and 2 cm for panels; PVC material should include 1 mm steel along the section, with frame from same specifications, first class metal lock, four metal hinges, first class metal handles, embossed glass thickness 3.5 mm, with thick good quality adhesive cover sheet and PVC lower panel. WASH BLOCK FITTINGS AND DOORS CERAMIC squat toilet with all necessary accessories 1\2 inch coppered-core CERAMIC Ceramic washbasin (50*40cm) with pedestal, copper drain and hose stainless steel tab, coppered-core, with neck (single input faucet) Two taps shower head coppered-core along with the hot water-cold water mixer, including a water hose/column Stainless steel with PVC cover STAINLESS STEEL 40 X 60CM one-piece sink, marble 1 mm and concrete layer; the overall thickness is no less 4.5	pc m2 Pc Pc Pc Pc	1 5.8 1 1 1
5.1 5.2 5.3 6 6.1 6.2 6.3 6.4 6.5 6.6	Main Door PVC Windows and Doors Squat toilet Squat Tap Wash Basin Handwash Water Tap Shower Shower Drainage Hole & Cover Kitchen Sink	Metal collar and cap for flue hole (4-6 inch) POLYURETHANE WALL PANEL (PUR) DOOR. As per wall specification. (PVC) doors and Windows with frame, first class white color. Section of structural parts min. 6 cm and 2 cm for panels; PVC material should include 1 mm steel along the section, with frame from same specifications, first class metal lock, four metal hinges, first class metal handles, embossed glass thickness 3.5 mm, with thick good quality adhesive cover sheet and PVC lower panel. WASH BLOCK FITTINGS AND DOORS CERAMIC Squat tollet with all necessary accessories 1\2 inch coppered-core CERAMIC Ceramic washbasin (50*40cm) with pedestal, copper drain and hose stainless steel tab, coppered-core, with neck (single input faucet) Two taps shower head coppered-core along with the hot water-cold water mixer, including a water hose/column Stainless steel with PVC cover STAINLESS STEEL 40 X 60CM	Pc Pc Pc Pc Pc	1 5.8 1 1 1 2 2
5.1 5.2 5.3 6 6.1 6.2 6.3 6.4 6.5 6.6 6.7	Main Door PVC Windows and Doors Squat toilet Squat Tap Wash Basin Handwash Water Tap Shower Shower Drainage Hole & Cover Kitchen Sink Marble Concrete Table Marble Concrete Stand (stone for sink	Metal collar and cap for flue hole (4-6 inch) POLYURETHANE WALL PANEL (PUR) DOOR. As per wall specification. (PVC) doors and Windows with frame, first class white color. Section of structural parts min. 6 cm and 2 cm for panels; PVC material should include 1 mm steel along the section, with frame from same specifications, first class metal lock, four metal hinges, first class metal handles, embossed glass thickness 3.5 mm, with thick good quality adhesive cover sheet and PVC lower panel. WASH BLOCK FITTINGS AND DOORS CERAMIC Squat toilet with all necessary accessories 1\2 inch coppered-core CERAMIC Ceramic washbasin (50*40cm) with pedestal, copper drain and hose stainless steel tab, coppered-core, with neck (single input faucet) Two taps shower head coppered-core along with the hot water-cold water mixer, including a water hose/column Stainless steel with PVC cover STAINLESS STEEL 40 X 60CM one-piece sink, marble 1 mm and concrete layer; the overall thickness is no less 4.5 cm; size 60*120 cm with necessary connections FOR SINK kitchen table (for sink) of 1 cm marble layer and min. 4.5 cm concrete layer (60 cm width) fixed by marble adhesive	PC PC PC PC PC PC ML	1 5.8 1 1 1 2 2
5.1 5.2 5.3 6 6.1 6.2 6.3 6.4 6.5 6.6 6.7	Main Door PVC Windows and Doors Squat toilet Squat Tap Wash Basin Handwash Water Tap Shower Shower Drainage Hole & Cover Kitchen Sink Marble Concrete Table Marble Concrete Stand (stone for sink stand)	Metal collar and cap for flue hole (4-6 inch) POLYURETHANE WALL PANEL (PUR) DOOR. As per wall specification. (PVC) doors and Windows with frame, first class white color. Section of structural parts min. 6 cm and 2 cm for panels; PVC material should include 1 mm steel along the section, with frame from same specifications, first class metal lock, four metal hinges, first class metal handles, embossed glass thickness 3.5 mm, with thick good quality adhesive cover sheet and PVC lower panel. WASH BLOCK FITTINGS AND DOORS CERAMIC squat toilet with all necessary accessories 1\2 inch coppered-core CERAMIC Ceramic washbasin (50*40cm) with pedestal, copper drain and hose stainless steel tab, coppered-core, with neck (single input faucet) Two taps shower head coppered-core along with the hot water-cold water mixer, including a water hose/column Stainless steel with PVC cover STAINLESS STEEL AO X 60CM one-piece sink, marble 1 mm and concrete layer; the overall thickness is no less 4.5 cm; size 60*120 cm with necessary connections FOR SINK kitchen table (for sink) of 1 cm marble layer and min. 4.5 cm concrete layer (60 cm width) fixed by marble adhesive 4 cm stone (width 60cm and height 80-90) for sink standing	Pc Pc Pc Pc Pc	1 5.8 1 1 1 2 2 1
5.1 5.2 5.3 6 6.1 6.2 6.3 6.4 6.5 6.6 6.7 6.8 6.9 6.10	Main Door PVC Windows and Doors Squat toilet Squat Tap Wash Basin Handwash Water Tap Shower Shower Drainage Hole & Cover Kitchen Sink Marble Concrete Table Marble Concrete Stand (stone for sink stand) Water supply pipe	Metal collar and cap for flue hole (4-6 inch) POLYURETHANE WALL PANEL (PUR) DOOR. As per wall specification. (PVC) doors and Windows with frame, first class white color. Section of structural parts min. 6 cm and 2 cm for panels; PVC material should include 1 mm steel along the section, with frame from same specifications, first class metal lock, four metal hinges, first class metal handles, embossed glass thickness 3.5 mm, with thick good quality adhesive cover sheet and PVC lower panel. WASH BLOCK FITTINGS AND DOORS CERAMIC squat toilet with all necessary accessories 1\2 inch coppered-core CERAMIC ceramic washbasin (50*40cm) with pedestal, copper drain and hose stainless steel tab, coppered-core, with neck (single input faucet) Two taps shower head coppered-core along with the hot water-cold water mixer, including a water hose/column Stainless steel with PVC cover STAINLESS STEEL 40 X 60CM one-piece sink, marble 1 mm and concrete layer; the overall thickness is no less 4.5 cm; size 60*120 cm with necessary connections FOR SINK kitchen table (for sink) of 1 cm marble layer and min. 4.5 cm concrete layer (60 cm width) fixed by marble adhesive 4 cm stone (width 60cm and height 80-90) for sink standing drinking water pipelines (PPR) 1/2 inch 20 bar	PC PC PC PC PC PC ML	1 5.8 1 1 1 2 2 1
5.1 5.2 5.3 6 6.1 6.2 6.3 6.4 6.5 6.6 6.7	Main Door PVC Windows and Doors Squat toilet Squat Tap Wash Basin Handwash Water Tap Shower Shower Drainage Hole & Cover Kitchen Sink Marble Concrete Table Marble Concrete Stand (stone for sink stand)	Metal collar and cap for flue hole (4-6 inch) POLYURETHANE WALL PANEL (PUR) DOOR. As per wall specification. (PVC) doors and Windows with frame, first class white color. Section of structural parts min. 6 cm and 2 cm for panels; PVC material should include 1 mm steel along the section, with frame from same specifications, first class setal lock, four metal hinges, first class metal handles, embossed glass thickness 3.5 mm, with thick good quality adhesive cover sheet and PVC lower panel. WASH BLOCK FITTINGS AND DOORS ERAMIC squat toilet with all necessary accessories 1\2 inch coppered-core CERAMIC ceramic washbasin (50*40cm) with pedestal, copper drain and hose stainless steel tab, coppered-core, with neck (single input faucet) Two taps shower head coppered-core along with the hot water-cold water mixer, including a water hose/column Stainless steel with PVC cover STAINLESS STEEL 40 X 60CM one-piece sink, marble 1 mm and concrete layer; the overall thickness is no less 4.5 cm; size 60*120 cm with necessary connections FOR SINK kitchen table (for sink) of 1 cm marble layer and min. 4.5 cm concrete layer (60 cm width) fixed by marble adhesive 4 cm stone (width 60cm and height 80-90) for sink standing drinking water pipelines (PVC) min 2.5mm-thick	Pc	1 5.8 1 1 1 2 2 1
5.1 5.2 5.3 6 6.1 6.2 6.3 6.4 6.5 6.6 6.7 6.8 6.9 6.10	Main Door PVC Windows and Doors Squat toilet Squat Tap Wash Basin Handwash Water Tap Shower Shower Drainage Hole & Cover Kitchen Sink Marble Concrete Table Marble Concrete Stand (stone for sink stand) Water supply pipe	Metal collar and cap for flue hole (4-6 inch) POLYURETHANE WALL PANEL (PUR) DOOR. As per wall specification. (PVC) doors and Windows with frame, first class white color. Section of structural parts min. 6 cm and 2 cm for panels; PVC material should include 1 mm steel along the section, with frame from same specifications, first class metal lock, four metal hinges, first class metal handles, embossed glass thickness 3.5 mm, with thick good quality adhesive cover sheet and PVC lower panel. WASH BLOCK FITTINGS AND DOORS CERAMIC Squat tollet with all necessary accessories 1\2 inch coppered-core CERAMIC Ceramic washbasin (50*40cm) with pedestal, copper drain and hose stainless steel tab, coppered-core, with neck (single input faucet) Two taps shower head coppered-core along with the hot water-cold water mixer, including a water hose/column Stainless steel with PVC cover STAINLESS STEEL 40 X 60CM one-piece sink, marble 1 mm and concrete layer; the overall thickness is no less 4.5 cm; size 60*120 cm with necessary connections FOR SINK kitchen table (for sink) of 1 cm marble layer and min. 4.5 cm concrete layer (60 cm width) fixed by marble adhesive 4 cm stone (width 60cm and height 80-90) for sink standing drinking water pipelines (PPR) 1/2 inch 20 bar 4" wastewater pipelines (PPR) 1/2 inch 20 bar 4" wastewater pipelines (PVC) min 2.5mm-thick 500 litre, galvanized steel water tank, 1.2 mm thickness	Pc P	1 5.8 1 1 1 2 2 1
5.1 5.2 5.3 6 6.1 6.2 6.3 6.4 6.5 6.6 6.7 6.8 6.9 6.10 6.11	Main Door PVC Windows and Doors Squat toilet Squat Tap Wash Basin Handwash Water Tap Shower Shower Drainage Hole & Cover Kitchen Sink Marble Concrete Table Marble Concrete Stand (stone for sink stand) Water supply pipe Sewerage pipe	Metal collar and cap for flue hole (4-6 inch) POLYURETHANE WALL PANEL (PUR) DOOR. As per wall specification. (PVC) doors and Windows with frame, first class white color. Section of structural parts min. 6 cm and 2 cm for panels; PVC material should include 1 mm steel along the section, with frame from same specifications, first class metal lock, four metal hinges, first class metal handles, embossed glass thickness 3.5 mm, with thick good quality adhesive cover sheet and PVC lower panel. WASH BLOCK FITTINGS AND DOORS CERAMIC squat toilet with all necessary accessories 1\2 inch coppered-core CERAMIC Ceramic washbasin (50*40cm) with pedestal, copper drain and hose stainless steel tab, coppered-core, with neck (single input faucet) Two taps shower head coppered-core along with the hot water-cold water mixer, including a water hose/column Stainless steel with PVC cover STAINLESS STEEL 40 X 60CM one-piece sink, marble 1 mm and concrete layer; the overall thickness is no less 4.5 cm; size 60*120 cm with necessary connections FOR SINK kitchen table (for sink) of 1 cm marble layer and min. 4.5 cm concrete layer (60 cm width) fixed by marble adhesive 4 cm stone (width 60cm and height 80-90) for sink standing drinking water pipelines (PPR) 1/2 inch 20 bar 4" wastewater pipelines (PVC) min 2.5mm-thick 500 litre, galvanized steel water tank, 1.2 mm thickness	PC P	1 5.8 1 1 1 2 2 1 1 3 10 8.4
5.1 5.2 5.3 6 6.1 6.2 6.3 6.4 6.5 6.6 6.7 6.8 6.9 6.10 6.11	Main Door PVC Windows and Doors Squat toilet Squat Tap Wash Basin Handwash Water Tap Shower Shower Drainage Hole & Cover Kitchen Sink Marble Concrete Table Marble Concrete Stand (stone for sink stand) Water supply pipe Sewerage pipe Water tank	Metal collar and cap for flue hole (4-6 inch) POLYURETHANE WALL PANEL (PUR) DOOR. As per wall specification. (PVC) doors and Windows with frame, first class white color. Section of structural parts min. 6 cm and 2 cm for panels; PVC material should include 1 mm steel along the section, with frame from same specifications, first class metal lock, four metal hinges, first class metal handles, embossed glass thickness 3.5 mm, with thick good quality adhesive cover sheet and PVC lower panel. WASH BLOCK FITTINGS AND DOORS CERAMIC Squat tollet with all necessary accessories 1\2 inch coppered-core CERAMIC Ceramic washbasin (50*40cm) with pedestal, copper drain and hose stainless steel tab, coppered-core, with neck (single input faucet) Two taps shower head coppered-core along with the hot water-cold water mixer, including a water hose/column Stainless steel with PVC cover STAINLESS STEEL 40 X 60CM one-piece sink, marble 1 mm and concrete layer; the overall thickness is no less 4.5 cm; size 60*120 cm with necessary connections FOR SINK kitchen table (for sink) of 1 cm marble layer and min. 4.5 cm concrete layer (60 cm width) fixed by marble adhesive 4 cm stone (width 60cm and height 80-90) for sink standing drinking water pipelines (PPR) 1/2 inch 20 bar 4" wastewater pipelines (PPR) 1/2 inch 20 bar 4" wastewater pipelines (PVC) min 2.5mm-thick 500 litre, galvanized steel water tank, 1.2 mm thickness	PC P	1 5.8 1 1 1 2 2 1 1 3 10 8.4
5.1 5.2 5.3 6 6.1 6.2 6.3 6.4 6.5 6.6 6.7 6.8 6.9 6.10 6.11 6.12 6.13 6.14	Main Door PVC Windows and Doors Squat toilet Squat Tap Wash Basin Handwash Water Tap Shower Shower Drainage Hole & Cover Kitchen Sink Marble Concrete Table Marble Concrete Stand (stone for sink stand) Water supply pipe Sewerage pipe Water tank Bathroom Window	Metal collar and cap for flue hole (4-6 inch) POLYURETHANE WALL PANEL (PUR) DOOR. As per wall specification. (PVC) doors and Windows with frame, first class white color. Section of structural parts min. 6 cm and 2 cm for panels; PVC material should include 1 mm steel along the section, with frame from same specifications, first class metal lock, four metal hinges, first class metal handles, embossed glass thickness 3.5 mm, with thick good quality adhesive cover sheet and PVC lower panel. WASH BLOCK FITTINGS AND DOORS CERAMIC squat toilet with all necessary accessories 1\2 inch coppered-core CERAMIC Ceramic washbasin (50*40cm) with pedestal, copper drain and hose stainless steel tab, coppered-core, with neck (single input faucet) Two taps shower head coppered-core along with the hot water-cold water mixer, including a water hose/column Stainless steel with PVC cover STAINLESS STEEL 40 X 60CM one-piece sink, marble 1 mm and concrete layer; the overall thickness is no less 4.5 cm; size 60*120 cm with necessary connections FOR SINK kitchen table (for sink) of 1 cm marble layer and min. 4.5 cm concrete layer (60 cm width) fixed by marble adhesive 4 cm stone (width 60cm and height 80-90) for sink standing drinking water pipelines (PPR) 1/2 inch 20 bar 4" wastewater pipelines (PVC) min 2.5mm-thick 500 litre 500 litre 500 litre, galvanized steel water tank, 1.2 mm thickness PVC louvred. PVC louvred. PVC louvred thickness of 1.2 mm. PVC Door PVC 60x80cm, first class white color. Section of structural parts min. 6 cm; PVC material should include 1 mm steel along the section, with frame from same specifications, first class metal lock, min. 2 metal hinges for each sash, first class metal lock, min. 2 metal hinges for each sash, first class metal lock, min. 2 metal hinges for each sash, first class metal lock, min. 2 metal hinges for each sash, first class metal lock, min. 2 metal hinges for each sash, first class metal lock min. 2 metal hinges for each sash, first class metal lock min. 3 min. 4 min. 6	PC P	1 5.8 1 1 1 2 2 1 1 3 10 8.4 1
5.1 5.2 5.3 6 6.1 6.2 6.3 6.4 6.5 6.6 6.7 6.8 6.9 6.10 6.11 6.12 6.13	Main Door PVC Windows and Doors Squat toilet Squat Tap Wash Basin Handwash Water Tap Shower Shower Drainage Hole & Cover Kitchen Sink Marble Concrete Table Marble Concrete Stand (stone for sink stand) Water supply pipe Sewerage pipe Water tank Bathroom Window Bathroom Door	Metal collar and cap for flue hole (4-6 inch) POLYURETHANE WALL PANEL (PUR) DOOR. As per wall specification. (PVC) doors and Windows with frame, first class white color. Section of structural parts min. 6 cm and 2 cm for panels; PVC material should include 1 mm steel along the section, with frame from same specifications, first class metal lock, four metal hinges, first class metal handles, embossed glass thickness 3.5 mm, with thick good quality adhesive cover sheet and PVC lower panel. WASH BLOCK FITTINGS AND DOORS CERAMIC squat toilet with all necessary accessories 1\2 inch coppered-core CERAMIC Ceramic washbasin (50*40cm) with pedestal, copper drain and hose stainless steel tab, coppered-core, with neck (single input faucet) Two taps shower head coppered-core along with the hot water-cold water mixer, including a water hose/column Stainless steel with PVC cover STAINLESS STEEL 40 X 60CM One-piece sink, marble 1 mm and concrete layer; the overall thickness is no less 4.5 cm; size 60*120 cm with necessary connections FOR SINK kitchen table (for sink) of 1 cm marble layer and min. 4.5 cm concrete layer (60 cm width) fixed by marble adhesive 4 cm stone (width 60cm and height 80-90) for sink standing drinking water pipelines (PPR) 1/2 inch 20 bar 4" wastewater pipelines (PPR) 1/2 inch 20 bar 4" wastewater pipelines (PVC) min 2.5mm-thick 500 litre, galvanized steel water tank, 1.2 mm thickness PVC louvred. PVC louvred. PVC louvred. PVC louvred thickness of 1.2 mm. PVC Door PVC Gova80cm, first class white color. Section of structural parts min. 6 cm; PVC material should include 1 mm steel along the section, with frame from same specifications, first class metal lock, min. 2 metal hinges for each sash, first class metal handles, embossed glass thickness 3.5 mm, with thick good quality adhesive cover sheet and PVC lower panel.	PC P	1 5.8 1 1 1 2 2 1 1 3 10 8.4 1
5.1 5.2 5.3 6 6.1 6.2 6.3 6.4 6.5 6.6 6.7 6.8 6.9 6.10 6.11 6.12 6.13 6.14	Main Door PVC Windows and Doors Squat toilet Squat Tap Wash Basin Handwash Water Tap Shower Shower Drainage Hole & Cover Kitchen Sink Marble Concrete Table Marble Concrete Stand (stone for sink stand) Water supply pipe Sewerage pipe Water tank Bathroom Window Bathroom Door	Metal collar and cap for flue hole (4-6 inch) POLYURETHANE WALL PANEL (PUR) DOOR. As per wall specification. (PVC) doors and Windows with frame, first class white color. Section of structural parts min. 6 cm and 2 cm for panels; PVC material should include 1 mm steel along the section, with frame from same specifications, first class metal lock, four metal hinges, first class metal handles, embossed glass thickness 3.5 mm, with thick good quality adhesive cover sheet and PVC lower panel. WASH BLOCK FITTINGS AND DOORS CERAMIC squat toilet with all necessary accessories 1\2 inch coppered-core CERAMIC Ceramic washbasin (50*40cm) with pedestal, copper drain and hose stainless steel tab, coppered-core, with neck (single input faucet) Two taps shower head coppered-core along with the hot water-cold water mixer, including a water hose/column Stainless steel with PVC cover STAINLESS STEEL 40 X 60CM one-piece sink, marble 1 mm and concrete layer; the overall thickness is no less 4.5 cm; size 60*120 cm with necessary connections FOR SINK kitchen table (for sink) of 1 cm marble layer and min. 4.5 cm concrete layer (60 cm width) fixed by marble adhesive 4 cm stone (width 60cm and height 80-90) for sink standing drinking water pipelines (PPR) 1/2 inch 20 bar 4" wastewater pipelines (PVC) min 2.5mm-thick 500 litre 500 litre 500 litre, galvanized steel water tank, 1.2 mm thickness PVC louvred. PVC louvred. PVC louvred thickness of 1.2 mm. PVC Door PVC 60x80cm, first class white color. Section of structural parts min. 6 cm; PVC material should include 1 mm steel along the section, with frame from same specifications, first class metal lock, min. 2 metal hinges for each sash, first class metal lock, min. 2 metal hinges for each sash, first class metal lock, min. 2 metal hinges for each sash, first class metal lock, min. 2 metal hinges for each sash, first class metal lock, min. 2 metal hinges for each sash, first class metal lock min. 2 metal hinges for each sash, first class metal lock min. 3 min. 4 min. 6	PC P	1 5.8 1 1 1 2 1 1 3 10 8.4 1 1 2

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AVERA	GE SIZED F	AMILY SHELTER	
Date :	May 2024	P31	
Checked by :	SNFI Cluster team	Scale :	

Hybrid Shelter Unit Type 2

➤ Living area:

• Walls: Concrete bricks and sandwich panels

Roofing: sandwich panels

> WASH area:

Walls: Concrete blocksRoof: Reinforced concrete

Shelters that combine different construction methods and materials, such as sandwich panels, steel frames, and concrete blocks. It is locally resourced, and the composite frame ensures durability and weather resistance.

In the example provided, the composite frame is made of steel and concrete, which provides strength and stability to the shelter. The main steel structure is made of square tube 80*80* 2mm, in addition to the columns bolted to concrete reinforced bases **40*20 cm** concrete calibre 300 kg/m³ which makes the unit resistant to earthquakes.

The sandwich panels provide high levels of thermal insultation during summer and winter.

- The sandwich panel walls, and roof consist of:
- Preferable metal sheet 0.3 to 0.8mm thickness
- Foam panel thickness minimum 40mm between metal sheets.
- Foam density minimum 38kg/m³
- Fire resistance: European standard Fire Class, minimum B2 fire resistance.
- > Concrete block walls for living area (20*40*15cm) block, Caliber 150 kg / m³; and a height of 80 cm.

> Water Proofing measures:

- Special attention should be made to ensure waterproofing is secured between concrete blocks and sandwich panel materials. The shelter incorporates a composite frame with a steel structure and sandwich panel cladding. To ensure robust waterproofing, flashing is installed at vulnerable points on the roof. This includes intersections with walls and points where two roof slopes meet. The flashing should be positioned with appropriate overlaps and sealed effectively to create a water-proof barrier. This prevents water from infiltrating underneath the roof. As an additional measure, the roof should have an appropriate slope to facilitate water runoff. Proper drainage systems, including downspouts and drains, should be installed to channel rainwater away from the shelter. Rainwater gutters should be incorporated into the roof design.
- The exterior cladding of the shelter, comprising of sandwich panels should be sealed at the joints. These sealed joints serve as a protective barrier against water infiltration and contribute to the overall waterproofing strategy. The exterior cladding not only enhances the structural integrity of the shelter but also provides insulation from the external weather elements.
- Maintenance requirements: Regular inspections may be needed to ensure the structural integrity, and any necessary repairs or replacements should be conducted promptly.
- Can be disassembled & portable or not? Compared to the other shelter material options, this shelter can more easily be disassembled and portable, providing flexibility in relocation or storage.
- Ability for expansion: The design allows for the ability to expand, providing scalability for future needs. This could involve adding additional units or modifying the existing structure to accommodate changing requirements.
- Modality: Contractor-Cash for Shelter-Cash for work.

For more details see the 3D-video Here



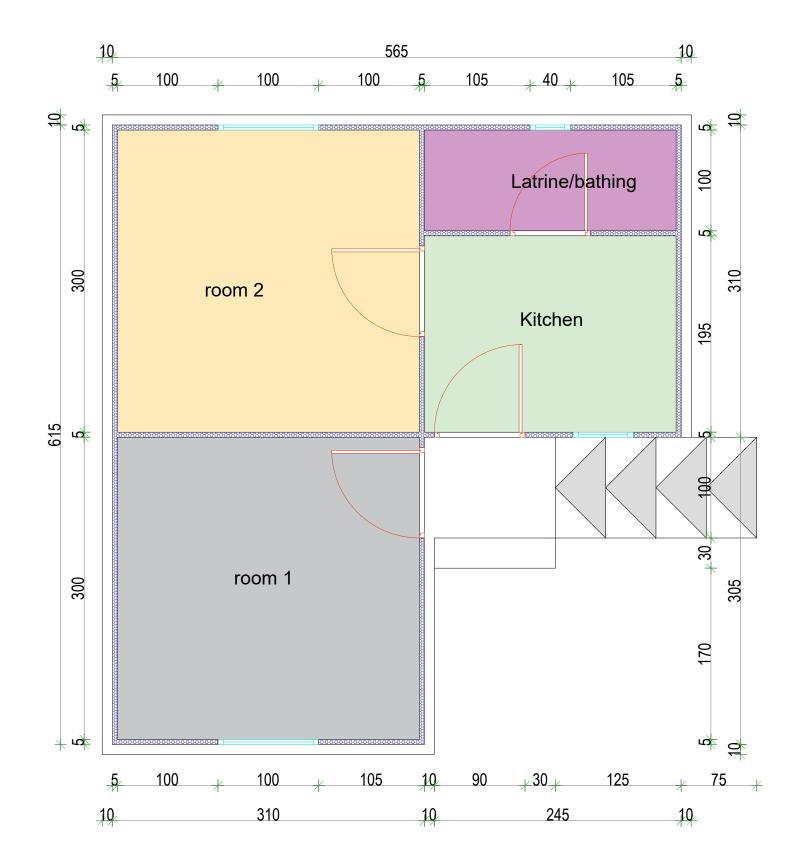
AVERAGE SIZED FAMILY SHELTER			
	May 2024	P31	
by:	SNEI Cluster team	Soolo :	

Dignified shelter-For average size family Prefabricated Shelter Unit



S	HEET INDEX
NO	SHEET NAME
P33	COVER PAGE
P34	DESIGN CONCEPT
P35	PICTURES
P36	GROUND PLAN
P37	FURNITURE PLAN
P38	ROOF PLAN
P39	BASE DETAILS
P40	ELEVATION 1&2
P41	SECTIONS A&B
P42	BOQ
P43	SUMMARY SHEET

AVERAGE SIZED FAMILY SHELTER			
Date :	May 2024	P33	
Checked by:	SNFI Cluster team	Scale :	







TYPE UNIT 4



AVE	RAGE SIZED F	AMILY SHELTER	
Date :	May 2024	P34	
Checked by :	SNFI Cluster team	Scale :	

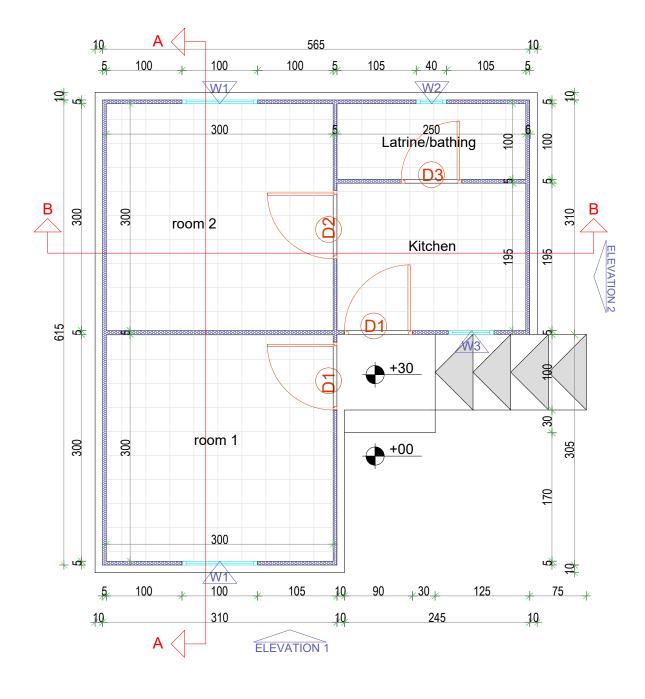




SINGLE UNIT



AVERAGE SIZED FAMILY SHELTER				
Date :	May 2024		P35	
Checked by :	SNFI Cluster team	Scale :		



P36 GROUND PLAN
1:50

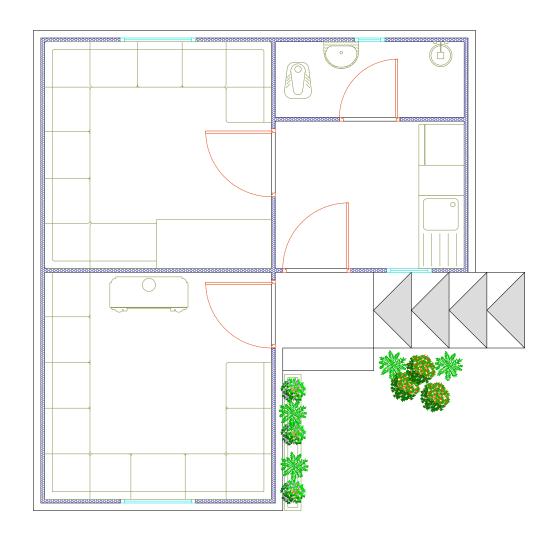
SUMMARY INFORMATION

Covered living space in m2 (excluding separate WASH facilities or separate cooking areas and private enclosed outdoor spaces)	18 m2
Area of WASH facilities	2.5 m2
Area of kitchen facilities	4.9 m2
Private outdoor area	No
Household private WASH facilities	Yes
Household cooking facilities	Yes
Materials	Base: Concrete mixture with crushed stone. Walls: Sandwich panel Roof: Sandwich panel Main door: Metal and sandwich panel Internal doors and windows: PVC
Time to build	5 Days
Anticipated life span	5 years
Total cost	4000 USD
Cost per m2	157 USD

		DOOR SCHEDUL	E	
Mark	Count	Width	Height	Martial
D1	2	90	200	Metal
D2	2	90	200	PVC
D2	1	80	200	PVC

		WINDOWS S	CHEDULE		
Mark	Count	Width	Height	Sill Height	Martial
W1	2	100	110	90	PVC
W2	1	40	40	160	PVC
W3	1	60	80	120	PVC

AVE	RAGE SIZED F	AMILY:	SHELTER	
Date :	May 2024		P36	
Checked by :	SNFI Cluster team	Scale :	1:50	



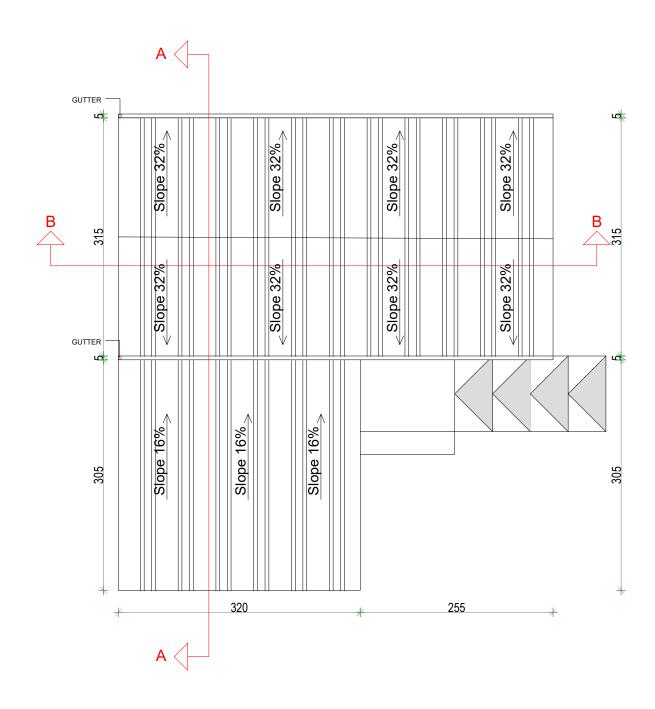








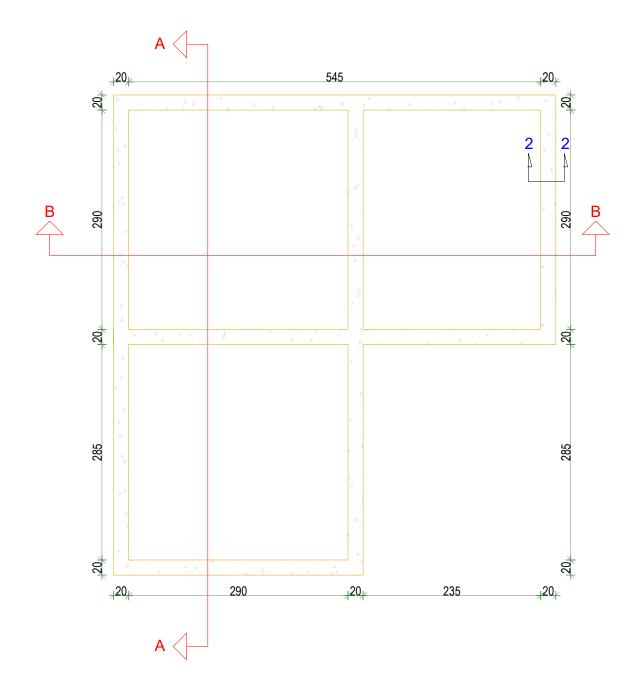
AVE	RAGE SIZED F	AMILY	SHELTER	
	May 2024		P37	
ed by :	SNFI Cluster team	Scale ·	1:50	

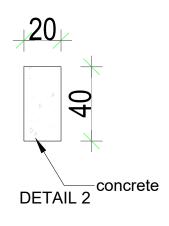


P38 ROOF PLAN
1:50

	NW SYRIA X-BORDER SHELTER/NFI CLUSTER
Coordinati	ng Humanitarian Shelter and Settlements

AVERAGE SIZED FAMILY SHELTER					
	Date :	May 2024		P38	
	Checked by :	SNFI Cluster team	Scale :	1:50	

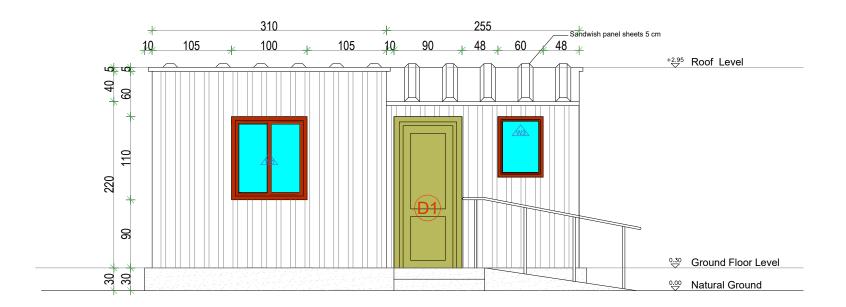




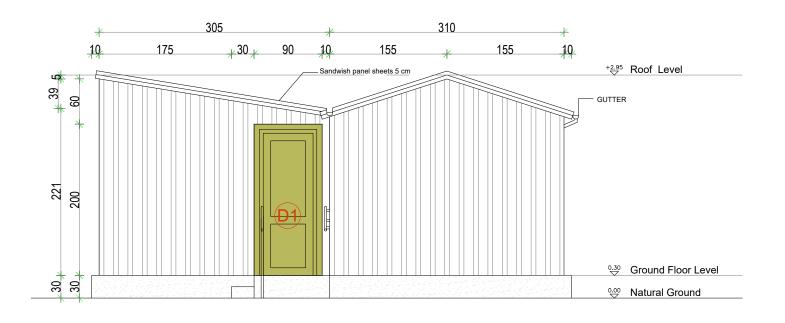
P39 BASE DETAILS
1:50

NW SYRIA X-BORDER SHELTER/NFI CLUSTER
ng Humanitarian Shelter and Settlements

AVERAGE SIZED FAMILY SHELTER				
Date :	May 2024		P39	
Checked by :	SNFI Cluster team	Scale :	1:50	



P40 ELEVATION 1
1:50



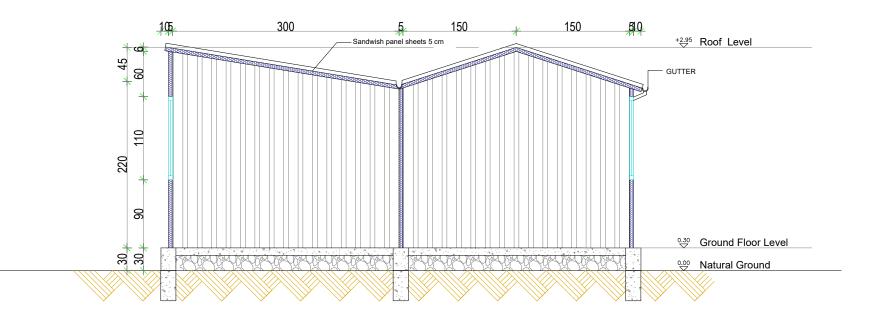
P40 ELEVATION 2
1:50

	NW SYRIA X-BORDER SHELTER/NFI CLUSTER
Coordinati	ng Humanitarian Shelter and Settlements

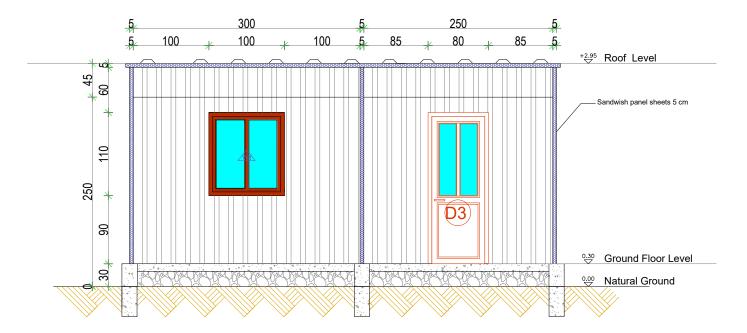
	AVE	RAGE SIZED F	AMILY :	SHELTER	
2	Date :	May 2024		P40	
S	Checked by :	SNFI Cluster team	Scale :	1:50	

ELEVATIONS 1&2

P40



P41 SECTION A 1:50



P41 SECTION B
1:50

	NW SYRIA X-BORDER SHELTER/NFI CLUSTER
	SHEELEN/IN GEOSIEN
Coordinat	ng Humanitarian Shelter and Settlements

AV	ERAGE SIZED F	AMILY:	SHELTER	
Date :	May 2024		P41	
Checked by :	SNFI Cluster team	Scale :	1:50	

SECTIONS A&B

P41

	BOQ-Dignified shelter/Prefabricated Shelter Unit - APPROXIMATED						
#	ITEM	DESCRIPTION	UNIT	QUANTITY			
1		CONCRETE BASE					
1.1	BEDDING	UNDER SLAB ON GRADE - gravel with a size between 0 to 5 cm	M3	5.50			
1.2	REINFORCED CONCRETE	(20*40) CM - GROUND BEAMS	M3	2.12			
1.3	PLAIN CONCRETE	(5) CM THICKNESS - SLAB ON GRADE - 26 m2 area	M3	1.30			
2		SHELTER STRUCTURE Including WASH Facilities					
2.1	PUR SANDWICH PANELS FOR ROOF	3) RIBBED POLYURETHANE ROOF PANEL (PUR) WITH ALL NEEDED ACCECORIES FOR NSTALLING (SCREWS, etc.) 40) MM INSULATION THICKNESS 0.35) MM INTERNAL RAL 9002 Prepainted galvanized steel 0.45) MM EXTERNAL RAL 9002 Prepainted galvanized steel DENSITY (40) (+ -) (2) KG/M3 FIRE CLASS (B S2 d0) (TS EN 13501-1).		34.00			
2.2	PUR SANDWICH PANELS FOR WALL	POLYURETHANE WALL PANEL (PUR) WITH ALL NEEDED ACCECORIES FOR INSTALLING (SCREWS, etc.) (40) MM INSULATION THICKNESS (0.35) MM INTERNAL RAL 9002 Prepainted galvanized steel (0.45) MM EXTERNAL RAL 9002 Prepainted galvanized steel DENSITY (40) (+ -) (2) KG/M3 FIRE CLASS (B S2 d0) (TS EN 13501-1).	M2 SURFACE AREA	68.76			
2.3	Steel Frame	Galvinized Steel (2 MM Thickness)	KG	450.00			
2.4	Fixings	Bolt, Screw, EPDM Gasket, Silicone	LS	1			
3		FITTINGS AND DOORS					
3.1	Metal chimney outlet	Metal collar and cap for flue hole (4-6 inch)	рс	2			
3.2	Main Door	POLYURETHANE WALL PANEL (PUR) DOOR. As per wall specification.	рс	2			
3.3	(PVC) doors and Windows with frame, first class white color. Section of structural parts min. 6 cm and 2 cm for panels; PVC material should include 1 mm steel along the section, with frame from same specifications, first class metal lock, four metal hinges, first class metal handles, embossed glass thickness 3.5 mm, with thick good quality adhesive cover sheet and PVC lower panel.		m2	8.1			
3.4	Squat toilet	CERAMIC squat toilet with all necessary accessories	Рс	1			
3.5	Squat Tap	1\2 inch coppered-core	Рс	1			
3.6	Wash Basin	CERAMIC Ceramic washbasin (50*40cm) with pedestal, copper drain and hose	Рс	1			
3.7	Handwash Water Tap	stainless steel tab, coppered-core, with neck (single input faucet)	Pc	1			
3.8	Shower	Two taps shower head coppered-core along with the hot water-cold water mixer, including a water hose/column	Рс	2			
3.9	Shower Drainage Hole & Cover	Stainless steel with PVC cover	Pc	2			
3.10	Kitchen Sink	STAINLESS STEEL 40 X 60CM one-piece sink, marble 1 mm and concrete layer; the overall thickness is no less 4.5 cm; size 60*120 cm with necessary connections	Рс	1			
3.11	Marble Concrete Table	FOR SINK kitchen table (for sink) of 1 cm marble layer and min. 4.5 cm concrete layer (60 cm width) fixed by marble adhesive	ML	1			
3.12	Marble Concrete Stand (stone for sink stand)	4 cm stone (width 60cm and height 80-90) for sink standing	Рс	3			
3.13	Water supply pipe	drinking water pipelines (PPR) 1/2 inch 20 bar	m	15			
3.14	Sewerage pipe	4" wastewater pipelines (PVC) min 2.5mm-thick	m	8.4			
3.15	Water tank	500 litre 500 litre, galvanized steel water tank, 1.2 mm thickness with metal stand and base	рс	1			
4		LIGHTING SYSTEM					
4.1	SOLAR LIGHTING	SOLAR LIGHTING SYSTEM 1X EXTERNAL SOLAR LIGHTING POINT ABOVE THE DOOR. 4X INTERNAL SOLAR LIGHTING IN LIVING SPACE, KITCHEN AND BATHROOM.	Lump Sum	1			

For Excel File Click Here



AVE	RAGE SIZED F	AMILY SHE	LTER
Date :	May 2024	P42	
Checked by :	SNFI Cluster team	Scale :	

Prefabricated Shelter Unit

> Living area and WASH facilities:

- Walls: Sandwich Panel with Metal Galvanized frame
- Roof: Sandwich Panel with Metal Galvanized frame

This shelter type can be constructed using locally available skills and materials. Installation of the shelter should be conducted through an experienced contractor as it requires skilled labour and supervision.

In the example provided, the frame is made of steel, which provides strength and stability to the shelter. The main steel structure is made of square tube 80*80*2 mm, in addition to the columns bolted to concrete bases 40*20 cm concrete caliber 300 kg/m³; which makes the unit resistant to earthquakes.

Sandwich panels, comprising of high-density insulating material, are used for walls and roofs, providing superior insulation against harsh weather conditions prevalent in both winter and summer and lower risk of harm from earthquakes compared to concrete. These materials are carefully chosen to withstand the test of time, reducing maintenance needs, and ensuring the well-being of beneficiaries while minimizing environmental impact through their efficiency.

> External wall and roof specifications

- Preferable metal sheet 0.3 to 0.8 mm thickness
- Foam panel thickness minimum 40 mm between metal sheets
- Foam density minimum 38 kg/m³
- Fire resistance: European standard Fire Class, minimum B2 fire resistance.

The option is to add two iron holes in the walls for the chimney of the heater, a hole in each room.

- > Water proofing: The shelter includes effective waterproofing measures to protect against water infiltration. Joints must be sealed effectively using flashing at vulnerable points.

 Proper drainage systems, including downspouts and drains, should be installed to channel rainwater away from the shelter. Rainwater gutters should be incorporated into the roof design.
- Maintenance requirements: Regular inspections may be needed to ensure the structural integrity, and any necessary repairs or replacements should be conducted promptly.
- Can be disassembled & portable or not? Compared to the other shelter material options, this shelter can more easily be disassembled and portable, providing flexibility in relocation or storage.
- **Ability for expansion:** The design allows for the ability to expand, providing scalability for future needs. This could involve adding additional units or modifying the existing structure to accommodate changing requirements.
- Modality: Contractor-Cash for Shelter-Cash for work.

For more details see the 3D-video Here



AVERAGE SIZED FAMILY SHELTER				
Date :	May 2024	P43		
Checked by :	SNFI Cluster team	Scale :		

