

(TE030/SY22) Tender Number Technical Conditions Book

Housing and Development Projects

Construction project of 500 residences on 40 m<sup>2</sup> area

دفتر الشروط الفنية للمناقصة (TE030/SY22)

مشاريع الإسكان والتعمير

مشروع إنشاء 500 مسكن بمساحة 40 م<sup>2</sup>

الهيئة العالمية للإغاثة والتنمية  
ULUSLARARASI YARDIMLAŞMA  
VE KALKINDIRMA DERNEĞİ



Statement of Work Business Statement			
1. Block building works and interior finishing/ block construction work and interior finishes			
#	Description Item	Unit unit measurement	Estimated Quantity
1.1	Level the ground for each shelter unit where Ground Beam (under all internal and external walls) will be constructed at least 30 cm width and height according to the level of the ground taking into account that the level is 20 cm higher than the highest point within the single unit with the backfilling inside the foundation using the remains of quarries (or from the same stone of the ground) and considering the last 10 cm a sand layer, according to reality and directions of the supervision team.	M2	20000
1.2	Provide concrete with a thickness of 10 cm, caliber 200 kg/m3 with the leveling of the ground by helicopter, according to the schemes and BoQ.	M3	2000
1.3	Provide and install a cement block with a dimensions (40*20*15) half full, and install the headers over doors and windows, with gutters placed for the surface, according to the schemes and BoQ, and the supervision team.	M2	61500
1.4	Provide reinforced concrete for the shelter roofs with a thickness of 12 cm reinforcement with the diameter of 8 mm in two directions according to the engineering schemes) considering the leveling of the ground with a suitable slope for the water drain, the caliber of 300 kg/m3, according to the schemes and BoQ, and the supervision team.	M3	2250

<b>Statement of Work Business Statement</b>			
<b>1. Block building works and interior finishing/ block construction work and interior finishes</b>			
#	Description Item	Unit unit measurement	Estimated Quantity
1.5	A cement plastering for walls and ceilings with two faces (rough and soft white layer), cement caliber of 250 kg/m <sup>3</sup> and the work is carried out in accordance with the instructions of the supervision team	M2	95000
#	<b>2. Exterior finishing works/ exterior finishing works</b>		
2.1	Provide and install a stair of stone (Clen) or to be determined according to the instruction of the site engineer with a 100 cm width, and the number of stairs' steps will be determined according to the shelter unit or according to the instruction of the site engineer	Pcs	500
2.2	A cement plastering for exterior walls with two faces (rough and soft white layer), cement caliber of 250 kg/m <sup>3</sup> and the work is carried out in accordance with the instructions of the supervision team, in addition to the painting works for the exterior walls.	M2	21000
#	<b>3. Windows and doors/ door and window works</b>		
3.1	Provide metal doors (100 *220) and (0.7 mm thickness with accessories and locks (Torsan or Duff) profile (angle 3*2.5), and door weight between (35-40) kg in accordance with the instructions of the supervision team	Pcs	500
3.2	Provide and install PVC doors 90*200 cm, first type, white color with all accessories (iron covered with white plastic and lock), in accordance with the instructions of the supervision team	Pcs	1500
3.3	Provide and install doors 80*200 cm (quarter glass and three-quarters solid) first type, white color with all accessories (iron covered with white plastic and lock), in accordance with the instructions of the supervision team	Pcs	500

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#	Description Item	Unit unit measurement	Estimated Quantity
3.4	Provide and install pvc windows two pieces 80*80 cm, first type, white color with all accessories (iron covered with white plastic and lock), in accordance with the instructions of the supervision team	Pcs	1500
#	<b>4. Electrical Works/ Electricity Business</b>		
4.1	Provide and install a complete electrical point with bulb (9 watt + socket) with drilling and tube extension (Razor), installing boxes and copper electrical wires (1.5 mm Turkish type) and all necessary accessories according to technical specifications, engineering schemes and guidance by the site engineer /4 lighting key, good Turkish type, (room 2 - kitchen 1 - bathroom 1).	Pcs	2000
4.2	Provide and install a complete electrical point and bulb with drilling and tube extension (Razor), installing boxes and copper electrical wires (2.5 mm Turkish type) and all necessary accessories according to technical specifications, engineering schemes and guidance by the site engineer /2 lighting plugs, good Turkish type, (room 1, and kitchen 1).	Pcs	1000
4.3	Provide and install a breaker box with cutter, good Turkish type) with all necessary connections and do whatever is necessary according to technical specifications, engineering schemes and guidance by the site engineer	Pcs	500
#	<b>5. Sanitation and Wc Works/Health Extensions and Toilets</b>		
5.1	Providing and installing PVC, first type, sewage pipes with 2 inches, with accessories and all what is needed (this is for the kitchen, bathroom)	Pcs	500
5.2	Providing and installing PVC, first type, sewage pipes with 4 inches, with accessories and all what is needed (this is for the toilet)	Pcs	500

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#	Description Item	Unit unit measurement	Estimated Quantity
5.3	Providing and installing PVC, first type, sewage pipes with 6 inches and provide the connection with the main sewage line, with accessories and all what is needed	Pcs	500
5.4	Providing and installing of a 4-inch stainless steel siphon type: Daasa, with accessories and all what is needed	Pcs	1000
5.5	Providing and installing a white Purcellan toilet, good type, in accordance with the instructions of the supervision team	Pcs	500
#	6. Drinking water and Kitchen works/ sweet water extensions and kitchen		
6.1	Providing and installing PPR pipes in accordance with the instructions of the supervision team	Pcs	500
6.2	Providing and installing a 1/2-inch chrome water tap with all accessories (with a connection to the kitchen counter and a hose for the toilet) in accordance with the instructions of the supervision team	Pcs	1500
6.3	Installation of mosaic kitchen counter (110*55 cm) with stops (5 cm stone) with drain hose in accordance with the instructions of the supervision team	Pcs	500
6.4	Providing and installing a metal water tank of 800 liters of thickness of not less than 1 mm with a floater and extensions from the roof of the building till the targeted floor and all what is needed to carry out the work including painting all sides.	Pcs	500
#	7. Ventilation and heating works/ ventilation and heating work		
7.1	Installation of a chimney fireplace in the wall in the form of an L shape, with accessories and all what is needed	Pcs	500



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#	Description Item	Unit unit measurement	Estimated Quantity
7.2	Introduction and installation of PVC ventilation with a diameter of 110 mm to ventilate the bathroom, the opening size is (100*100) cm at a height of 60cm with all necessary in accordance with the instructions of the supervision team	Pcs	500
#	8. External Infrastructure/ External Infrastructure		
8.1	Provide and install sewage (polyethylene), where the diameters will be determined according to engineering schemes with drilling (using all required trucks) with all the required accessories and connecting with the manhole, shelter units, and service facilities, where the drilling depth is not less than 1.2 m in accordance with the instructions of the supervision team/ main sewage line	M	1
8.2	Implementation of manhole with different dimensions in accordance with the instructions of the supervision team	Pcs	1
8.3	Implementation of septic tank dimensions of 4*5*5, walls of stone with a good cement type, and a thickness of at least 30 cm (with the construction of middle wall) with the pouring of reinforced concrete 350 kg/m <sup>3</sup> , thickness 15 cm (reinforcement with 12 mm every 20 cm in two directions) with the backfilling over the manhole keeping an opening with a dimensions 80*80 cm and closed with a metal cover	Pcs	3
8.4	Provide red soil for the parks (with a thickness of soil not less than 10 cm) good type in accordance with the instructions of the supervision team, considering leveling, watering, and providing fertilizer and seeds. In addition to installing a 15 cm block side.	M2	4350

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#	Description Item	Unit unit measurement	Estimated Quantity
8.5	Leveling and graveling the roads, considering the aggregated base between (0-7) cm where the thickness after the soil compacting should be 10 cm using all required trucks as directed by the site engineer.	M2	23000
8.6	Providing and installing PPR pipes with a thickness of 32mm and considering 30cm of drilling in accordance with the instructions of the supervision team	M	4500
8.7	Provide and install an external fence of concrete block (15 cm) at a height of 1.5m with two layers of painting works from both sides (spray nail + soft black), with consideration of placing a column (50*50) cm of concrete block every 4 m in accordance with the instructions of the supervision team	M2	1500

#### 1- Excavations, and Leveling Works:

- All excavations include normal or rocky soil, which should be removed using manpower and the necessary mechanical equipment.
- Materials resulting from drilling, which will be used for the backfilling works, will be placed in accordance with the supervision team post the approval of using these materials.
- Pricing of the drilling and backfilling works should be clear and be included within the pricing list, in addition to the necessary equipment.



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- The backfilling must be chosen with good specifications and under the supervision of the site engineer with aggregated base (0.3-7) cm and each layer should be watered after the leveling works in accordance with the supervision team

## 2- Concrete 200 kg /M3:

provided a ground concrete layer using wooden boxes at a thickness of 10 cm, 200 kg/m<sup>3</sup> where the price should cover the cubic meter that includes (gravel - sand - water - cement - mold - watering machines and equipment .... etc.), in addition to the wages of the labor force and all that is needed to complete the work as required.

- Periodically watering, twice a day, for 5 days using clean water.

- A helicopter works should be considered for the ground surface with a cement spray as directed by the site engineer.

## 3- Reinforced Concrete 300 kg/M3

- Providing and installing a reinforced concrete to the surface of the shelter unit with dimensions mentioned and cleared in the schemes with an 8 mm diameter reinforcement on both sides.

- The price should be clear as for the cubic meter including all the required works, materials, transportation, labor wages, watering and all that is needed to complete the work as required.

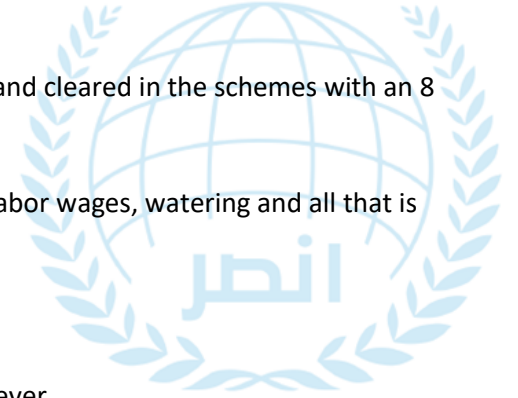
- Periodically watering, twice a day, for 5 days using clean water.

- The roof slab is located on four sides of the wall and the concrete should be poured with the 10 cm of cantilever.

- The slope of the roof should be considered between (5-15) cm according to the directions of the site engineer

- A helicopter works should be considered for the roof surface with a cement spray as directed by the site engineer.

- The wooden boxes will be unpacked within a period will be determined by the site engineer.





#### 4- Walls:

- The walls consist of semi hollow blocks, 55 blocks per cement bag/m<sup>2</sup>, the price should include all materials like labor, transportation wages, machinery, and uploading materials and all the needs to complete the work as required.
- Periodically watering, twice a day, for 3 days using clean water.
- Constructing the Block should be considered by using the required equipment taking into consideration the 1.5 cm thickness of the cement layer among the blocks.

#### 5- The interior plastering:

- The price will be considered per square meter of the implemented plastering and should include the necessary materials, labor wages, and all that is required to complete the work as required.
- the interior layer consists of two layers (rough black - soft white) with a cement caliber 250 kg /m<sup>3</sup>.
- The materials used should be of a good type and free of impurities and under the guidance of the site engineer.
- Periodically watering, twice a day, for 5 days using clean water.
- The plastering should be smooth and well-polished and horizontal and vertical surfaces should be flawless.
- The thickness of the cement layer is between (15-20) mm.
- Each layer must be individually implemented with a timeline determined by the site engineer.





#### 6- The exterior plastering:

- The price will be considered per square meter of the implemented plastering and should include the necessary materials, labor wages, and all that is required to complete the work as required.
- The exterior layer consists of two layers (rough and soft) with a cement caliber 250 kg /m3.
- The materials used of the good type and free of impurities and under the guidance of the site engineer.
- Periodically watering, twice a day, for 5 days using clean water.
- The plastering should be smooth and well-polished and horizontal and vertical surfaces should be flawless.
- The thickness of the cement layer is between (15-20) mm.
- Each layer must be individually implemented with a timeline determined by the site engineer in terms of the painting color.

#### 7- Doors and windows:

- The price will be considered per item should include the necessary materials, labor wages, and all that is required to complete the work as required.
- The contractor is committed to installing doors and windows in a good way and according to the engineering schemes under the supervision of the site engineer.





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- the selected materials should be under the supervision of the site engineer to be of good quality, in addition to that, the technical team will check up on the materials and will proceed with the approved material to be considered within the project.

#### 8- Manholes:

- Provide and construct reinforced concrete manhole with a 250kg/m<sup>3</sup> according to the engineering schemes, the wall thickness is 15cm with a reinforced concrete cover with a thickness of 15cm, considering the backfilling and leveling works, and the connection to the main water pipes. The location of the manholes should be specified according to the instruction of the technical team.
- The sedimentation basin below the pile should not be less than 40 cm.
- the prices include materials, transportation, labor, machinery, watering, drilling, and filling works and all that is necessary to complete the work.

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