

## Wastewater treatment system- Only installation (tanks are available)

Site P-code name:

<b>ABR - AF - BAF - SSF Options</b>	<b>Total cost</b>	<b>\$0.00</b>
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### 1st tank Settler and ABR

#	Item	Comment	Quantity	Unit	Unit Price	Total Price
1	Excavation and installation of the Wetland modules	Earth work, evacutaion of the excavation, Installation of the modular system, connection and	1	ls		\$0.00
<b>Total</b>						\$0.00

### 2nd tank ABR AF and BAF

#	Item	Comment	Quantity	Unit	Unit Price	Total Price
1	Excavation and installation of the Wetland modules	Earth work, evacutaion of the excavation, Installation of the modular system, connection and backfilling	1	ls		\$0.00
<b>Total</b>						\$0.00

### SSF

#	Item	Comment	Quantity	Unit	Unit Price	Total Price
1	Excavation and installation of the Wetland modules	Earth work, evacutaion of the excavation, Installation of the modular system, connection and backfilling	1	ls		\$0.00
2	HDPE Vertical tank 8000l	2.2m diameter minimum High 2m	2	pc		\$0.00
3	Distribution with pipes 2" PVC	With Tees and elbows for 5 branches as per drawing	38	lm		\$0.00
4	Drainage with Passive ventilation 2" PVC	4 aeration of 2m high minimum	12	lm		\$0.00
5	Fine sand	Particules sizes range [0.25-0.5 mm]	1.52	m3		\$0.00
6	Coarse sand	Particules sizes range [0.5-1 mm]	3.04	m3		\$0.00
7	Fine gravel	Particules sizes range [8-16 mm]	1.52	m3		\$0.00
8	Coarse gravel	Particules sizes range [16-32 mm]	3.04	m3		\$0.00
<b>Total</b>						\$0.00

### Evacuation

#	Item	Comment	Quantity	Unit	Unit Price	Total Price
1	Manhole Collector	Bekaa Beton -or factory in Akkar (2m x 0.8m x 0.8m)	1	pc		\$0.00
2	Flexible pipe	HDPE irrigation grade	2	lm		\$0.00
3	Fence	2m hight per meter of the system	1	pc		\$0.00
4	Distribution of 4" PVC	provide,install and connect 4" PVC piping network for the existed latrines and kitchens (including excavation work)	320	lm		\$0.00
5	Construction of concrete manhole (60cm*60cm*80cm)	(60cm*60cm*80cm) with partition walls 12 cm thickness and reinforced concrete ground 12 cm thickness (Using labor force or excavator)	10	pc		\$0.00
6	4 in. PVC Sewer and Drain Tee		10	pc		\$0.00
<b>Total</b>						\$0.00

Date: 05/01/23

**Plastic ABR BOQ**  
**Site P-code name:**

Item #	Activity Description	Unit	Quant ity	Unit Price	Total
<b>Plastic ABR</b>		<b>1</b>			
1.1	Construction of high flood 4x1000 liters drainage tank (Panda Plast) (see drawing)	LS	1	\$-	\$-
1.2	Supply and install NTG underground storage tank GTT2, double layers ,2300 liters	Unit	1	\$-	\$-
1.3	Supply and install solid blocks, to construct a wall surrounding the ABR tanks, the blocks are 20 cm thickness and must be connected with cement mortar	Unit	300	\$-	\$-
1.4	Supply and install a PVC pipe 4" + excavation 30 cm depth along the quantity required (including all accessories and fittings)	m	100	\$-	\$-
1.5	Supply and install 4" PVC Tee	Unit	30	\$-	\$-
1.6	Supply and install 4" PVC 90 degree elbow	Unit	30	\$-	\$-
1.7	Supply and spread aggregate gravel (to fill all the gaps amongs the tanks)	m <sup>3</sup>	5	\$-	\$-
Total Amount Incl. VAT (USD)					\$0.00

Date: 05-01-23

**Plastic ABR BOQ**  
**Site P-code name:**

Item #	Activity Description	Unit	Quant ity	Unit Price	Total
<b>Plastic ABR</b>		<b>1</b>			
1.1	Construction of high flood 4x1000 liters drainage tank (Panda Plast) (see drawing)	LS	1	\$-	\$-
1.2	Supply and install NTG underground storage tank GTT1, double layers ,1300 liters	Unit	1	\$-	\$-
1.3	Supply and install solid blocks, to construct a wall surrounding the ABR tanks, the blocks are 20 cm thickness and must be connected with cement mortar	Unit	300	\$-	\$-
1.4	Supply and install a PVC pipe 4" + excavation 30 cm depth along the quantity required (including all accessories and fittings)	m	100	\$-	\$-
1.5	Supply and install 4" PVC Tee	Unit	30	\$-	\$-
1.6	Supply and install 4" PVC 90 degree elbow	Unit	30	\$-	\$-
1.7	Supply and spread aggregate gravel (to fill all the gaps amongs the tanks)	m <sup>3</sup>	5	\$-	\$-
Total Amount Incl. VAT (USD)					\$0.00

Date: 05-01-23

### Steel ABR BOQ 1

Site P-code name:

Item #	Activity Description	Unit	Quantity	Unit Price	Total
<b>Steel ABR</b>		<b>1</b>			
1.1	Excavation of an underground pit dimensions (1.7 m*3.8m*3m) using mechanical excavator. Deportation of surplus materials to aprooved dump site	m <sup>3</sup>	19.4	\$-	\$-
1.3	Fabricate, supply and install steel ABR tank as per Attached Drawing (Steel ABR #1) Works shall include: 1. Water tight welding between sheets 2.PVC openings as per figure #1 3. Proofing suitable for wastewater from inside 4. Waterproof epoxy coating from the outside	unit	1	\$-	\$-
1.4	Supply, cut and install 4" PVC pipes	m	100	\$-	\$-
1.5	Supply and install 4" PVC Tee	unit	30	\$-	\$-
1.6	Supply and install 4" PVC 90 degree elbow	unit	30	\$-	\$-
Total Amount Incl. VAT (USD)					\$0.00

Date: 05-01-23

### Steel ABR BOQ 2

Site P-code name:

Item #	Activity Description	Unit	Quantity	Unit Price	Total
<b>Steel ABR</b>		<b>1</b>			
1.1	Excavation of an underground pit dimensions (1.3m*3.8m*3m) using mechanical excavator. Deportation of surplus materials to aprooved dump site	m <sup>3</sup>	14.8	\$-	\$-
1.3	Fabricate, supply and install steel ABR tank as per Attached Drawing ( Steel tank #2) Works shall include: 1. Water tight welding between sheets 2.PVC openings as per figure #2 3.Proofing suitable for wastewater from the inside 4. Waterproof epoxy coating from the outside	unit	1	\$-	\$-
1.4	Supply, cut and install 4" PVC pipes	m	100	\$-	\$-
1.5	Supply and install 4" PVC Tee	unit	30	\$-	\$-
1.6	Supply and install 4" PVC 90 degree elbow	unit	30	\$-	\$-
Total Amount Incl. VAT (USD)					\$0.00

### Piping network BOQ

Site P-code name:

Item #	Activity Description	Unit	Quantity	Unit Price	Total
<b>Installation of Wastewater Piping Network</b>		<b>1</b>			
1.1	Provide and install 6 in. PVC pipes with accessories and excavation 30 cm depth as per figure (Using labor force or machine)	m	218		\$ -
1.2	Provide and install 4 in. PVC pipes with accessories and excavation 30cm depth along the pipeline as per figure (Using labor force or machine)	m	209		\$ -
1.3	Construction of concrete manhole (70cm*70cm*70cm) with partition walls 12 cm thickness and reinforced concrete ground 12 cm thickness (Using labor force or machine)	Piece	18		\$ -
	4 in. PVC Sewer and Drain Tee	Piece	10		\$ -
1.4	6 in. PVC Sewer and Drain Tee	Piece	10		\$ -
<b>Total Cost</b>					<b>\$ -</b>