

Date: 30-05-22



Plastic ABR BOQ

Site P-code name:

ABR - AF - BAF - SSF Options				Total cost		\$0.00
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 backfilling	1	LS		\$0.00
2	outer sheet for the containment of the the treatment system	6.28m X 3m	1	pc		\$0.00
3	outer sheet for the containment of the the treatment system	2m diameter	4	pc		\$0.00
4	U-PVC Pipes 4"	2 pipes of 1.3m + 1.6m per baffle and 1.3m for the settler	11	lm		\$0.00
5	Elbows 4"		1	pc		\$0.00
6	Tees 4"	6 per baffle	15	pc		\$0.00
7	Ventilation PVC 2"	2m long unless we use a balloon to collect biogas	2.5	lm		\$0.00
					Total	\$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
2	outer sheet for the containment of the the treatment system	6.28m X 3m	1	pc		\$0.00
3	outer sheet for the containment of the the treatment system	2m diameter	4	pc		\$0.00
4	Perforated sheet (2cm diameter minimum)	1.6 m x 1.1.m	2	pc		\$0.00

5	Media for AF (in plastic bags)	Bioblock Electrical tubes Circular discs Expended clay Gravel (Basalt 1 cm dia)	3.762	m ³		\$0.00
6	Circular 9" Diffuseur fine air bubbles	Capacity to diffuse 50l/min	3	pc		\$0.00
7	PPR 1" with elbows		3.8	lm		\$0.00
8	Blower 150l/min - 140w - 44db max	operation head 1,7m	1			\$0.00
9	U-PVC Pipes 4"	2 pipes of 1.3m + 1.6m per baffle and 1.3m for the settler	18	lm		\$0.00
10	Elbows 4"		4	pc		\$0.00
11	Tees 4"	6 per baffle	15	pc		\$0.00
12	Bags with luffa or gravels	Fixed on the outlet of the ABR + Outlet of the AF	4	pc		\$0.00
					Total	\$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	m ³		\$0.00
6	Coarse sand	Particules sizes range [0.5-1 mm]	3.04	m ³		\$0.00
7	Fine gravel	Particules sizes range [8-16 mm]	1.52	m ³		\$0.00
8	Coarse gravel	Particules sizes range [16-32 mm]	3.04	m ³		\$0.00
					Total	\$0.00

Evacuation and power

#	Item	Comment	Quantity	Unit	Unit Price	Total Price
1	Manhole Collector	(2m x 0.8m x 0.8m)	1	pc		\$0.00
2	Pump	0.7 HP - submersible 380 W similar grundfos Unilift CC7 - A1	1	pc		\$0.00
3	Flexible pipe	HDPE irrigation grade	2	lm		\$0.00

4	Solar Pannels	280w Supply and installed on a steel stand	9.84	m ²		\$0.00
5	Batteries	150Ah	2	pc		\$0.00
6	Inverter in a steel box	1500w electric table mounted including (Differential, Circuit braker) DC/AC cables and compatible with an online monitoring system	1	pc		\$0.00
7	Electrical Board	Supply and install control panel for the air blowers (two air blowers: 200 Watt) to run separately for 40 minutes and stop for 20 minutes automatically, the control panel must include Contactors 20 A, 24 Hours timer that can be settable by minutes, 4 pole contact relays 220 vac, push button to start/stop ,Lamp temoin 220v, selector switch 0-1-2 to select automatic or manual mode, pilot light for run and fault indication, MCB with thermal protection for motor, water proof metallic enclosure, cable, cache cables, terminals, cable glands	1	pc		\$0.00
8	Fence	2m hight perimeter of the system	1	pc		\$0.00
					Total	\$0.00

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Plastic ABR BOQ

Site P-code name:

Item #	Activity Description	Unit	Quantity	Unit Price	Total
Plastic ABR		1			
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 ³	5	\$-	\$-
Total Amount Incl. VAT (USD)					\$0.00

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Plastic ABR BOQ

Site P-code name:

Item #	Activity Description	Unit	Quantity	Unit Price	Total
Plastic ABR		1			
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 ³	5	\$-	\$-
Total Amount Incl. VAT (USD)					\$0.00

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Steel ABR BOQ 1

Site P-code name:

Item #	Activity Description	Unit	Quantity	Unit Price	Total
Steel ABR		1			
1.1	Excavation of an underground pit dimensions (1.7 m*3.8m*3m) using mechanical excavator. Deportation of surplus materials to aproaved dump site	m ³	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

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Steel ABR BOQ 2

Site P-code name:

Item #	Activity Description	Unit	Quantity	Unit Price	Total
Steel ABR		1			
1.1	Excavation of an underground pit dimensions (1.3m*3.8m*3m) using mechanical excavator. Deportation of surplus materials to aproaved dump site	m ³	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