

DUSHTHA SHASTHYA KENDRA (DSK)

A.C- 2.1.1	BOQ for Construction of Faecal Sludge Management (ABR) System	Date: 21.10.20				
Sedimentation tank, Buffle Chamber, Planted Gravel Filter, Polishing Pond, Dying Bed, Cleaning & Changing room, Soak well and site improvement Work						
S.I. no	Description of Item	Quantity	Unit	Unit Rate (TK)	Amount (TK)	Remarks
1	Site Preparation: Preparation of work site including dismantle old structure, cleaning removing of spoils of undersiable materials if any, including providing proper layout for Land slide protection, etc. everything complete as per specification of the Engineer-in-charge.	1000	Sft	10	10000	
2	Safety Caution : Providing and maintain Project safety border Ribon caution mark two layer to be placed peripheri of the project as per specification of the Engineer-in-charge.	600	Rft	5	3000	
3	Project Profile Signboards/Safety Signboards/Information board : Providing and maintenance Project Profile Signboards/safety sign boards to be placed at a suitable place of the site as per specification of the Engineer-in-charge.	2	Each	10000	20000	
(A) Sub Total					33,000	
4	Sedimantation Tank & Baffle chamber with Manhole-01					
	4.1- Earth Work Excavation for settler tank & baffled reactor foundation, polishing pond, planted gravel filter, inspection pit etc. by manuallly excavating earth to the lines, grades and elevation, providing necessary tools and plants, protecting and maintaining the trench dry, leaning the excavated earth at a safe distance out of the area enclosed by the layout etc. all complete and accepted by the Engineer, subject to submit method statement of carrying out excavation work to the Engineer for approval.	3916	Cft	12	46992	
	4.2-Earth Back Filling Periphari of Supported Sand:Cement bags back side as per actual field required minimum 100ft lead as per specification of the Engineer-in-charge.	1958	Cft	10	19580	
	4.3-Macadam work in foundation : 1st Class bricks, Filing sand Angular Shape 0.5 to 0.7 as per specification of the Engineer-in-charge.	246	Cft	150	36900	

<p>4.4-Sand filling in foundation trenches and plinth with sand having F.M. 0.8 in 150mm layers including leveling, watering and compaction by ramming each layer up to finished level as per design.</p>	200	Cft	35	7000	
<p>4.5-Polyethylene Sheet: Providing single layer polythene sheet (0.18mm thick) weighting one kilogram per 6.5 square meter in floor or anywhere in ground floor underneath the cement concrete, etc.</p>	2,000	Sft	6	12000	
<p>4.6-One layer of brick flat soling in foundation and roof slab bottom with first class picked jhama bricks including preparation of bed filling the interstices with local sand, levelling etc. all complete and accepted by the</p>	616	Sft	80	49,280	
<p>4.7-Cement Concrete work in foundation (1:2:4): Cement concrete work in foundation 1:2:4: mix proportion in any where upto required thickness using 19mm down graded picked jhama chips, medium sand (FM 1.7) and cement including spreading two layers of 0.3mm thick transparent PVC sheet, making chips, screening, cleaning, Laying, compaction and curing etc. all complete as per drawing, specification & instruction of the</p>	308	Cft	230	70,840	
<p>4.8-10" Brick work with first class bricks in cement sand (F.M. 1.2) mortar (1:4) and making bond with connected walls including necessary scaffolding, raking out joints, cleaning and soaking the bricks for at least 24 hours before use and washing of sand curing at least for 7 days in all floors including cost of water, electricity and other charges etc. all complete and accepted by the Engineer.</p>	709	Cft	200	141,800	
<p>4.9-5" Brick work with first class bricks in cement sand (F.M. 1.2) mortar (1:4) and making bond with connected walls including necessary scaffolding, raking out joints, cleaning and soaking the bricks for at least 24 hours before use and washing of sand curing at least for 7 days in all floors including cost of water, electricity and other charges etc. all complete and accepted by the Engineer.</p>	162	Sft	90	14,580	

	4.10-R.C.C.Work (1:2:4): Reinforced cement concrete works for the Settler Tank & Baffled Reactor & Inception pit of the Roof Slab having minimum cylinder crushing strength 25 MPa at 28 days with portland cement (conforming to BDS 232), best quality coarse sand (50% quantity of sand minimum F.M. 1.2 and 50% quantity of coarse sand of minimum F.M. 2.5) 20 mm down graded Brick chips including breaking chips and screening, centering, shuttering, mixing casting, laying, compacting, curing up to the recommended time, making shuttering fully leak proof, etc.	180	Cft	350	63,000	
	4.11-Deformed bar (60 grade). Supplying, fabrication and fixing to details as per design deformed bar reinforcement in concrete in accordance a) 60 grade deformed bar with minimum fy=415 MPa with BSTI standard including straightening and cleaning rust, if any, bending and binding in position with supply of GI. Wires etc. complete in all respects in all floors.	800	Kg	110	88,000	
	4.12-Plastering Work with N.C.F: Minimum 12 mm thick cement sand (F.M. 1.2) plaster (1:4) with fresh cement to wall both inner or outer surface with NCF, finishing the corner and edges including washing of sand cleaning the surface, scaffolding and curing at least for 7 days, cost of water, electricity and other charges etc. all complete in all respect as per drawing and accepted by the Engineer.	2300	Sft	30	69,000	
	4.13-Supply fitting and fixing of 4" dia UPVc pipe including all connecting accessories like bend, tee, solution	180	Rft	170	30,600	
	4.14-Supply fitting and fixing of 4" dia gate valve	1	Nos	5,000	5,000	
	(B) Sub Total				654,572	
5	Filter Media Chamber					
	5.1- Earth Work Excavation for filter Media foundation, polishing pond, planted gravel filter, inspection pit etc. by manually excavating earth to the lines, grades and elevation, providing necessary tools and plants, protecting and maintaining the trench dry, leaning the excavated earth at a safe distance out of the area enclosed by the layout etc. all complete and accepted by the Engineer, subject to submit method statement of carrying out excavation work to the Engineer for approval.	2240	Cft	12	26,880	

	5.2-Earth Back Filling Periphari of Supported Sand:Cement bags back side as per actual field required minimum 100ft lead as per specification of the Engineer-in-charge.	1120	Cft	10	11,200	
	5.3-Macadam work in foundation : 1st Class bricks, Filing sand Angular Shape 0.5 to 0.7 as per specification of the Engineer-in-charge.	250	Cft	150	37,500	
	5.4-Sand filling in foundation trenches and plinth with sand having F.M. 0.8 in 150mm layers including leveling, watering and compaction by ramming each layer up to finished level as per design.	300	Cft	35	10,500	
	5.5-Polyethylene Sheet: Providing single layer polythene sheet (0.18mm thick) weighting one kilogram per 6.5 square meter in floor or anywhere in ground floor underneath the cement concrete, etc.	500	Sft	6	3,000	
	5.6-One layer of brick flat soling in foundation and roof slab bottom with frist class picked jhama bricks including preparation of bed filling the interstices with local sand, levelling etc. all complete and accepted by the Engineer.	600	Sft	80	48,000	
	5.7-Cement Concrete work in foundation (1:2:4): Cement concrete work in foundation 1:2:4: mix proportion in any where upto required thickness using 19mm down graded picked jhama chips, medium sand (FM 1.7) and cement including spreading two layers of 0.3mm thick transparent PVC sheet, making chips, screening, cleaning, Laying, compaction and curing etc. all complete as per drawing, specification & instruction of the Engineer-in-Charge.	200	Cft	230	46,000	
	5.8-10" Brick work with first class bricks in cement sand (F.M. 1.2) mortar (1:4) and making bond with connected walls including necessary scaffolding, raking out joints, cleaning and soaking the bricks for at least 24 hours before use and washing of sand curing at least for 7 days in all floors including cost of water, electricity and other charges etc. all complete and accepted by the Engineer.	580	Cft	200	116,000	

	5.9-Plastering Work with N.C.F: Minimum 12 mm thick cement sand (F.M. 1.2) plaster (1:4) with fresh cement to wall both inner or outer surface with NCF, finishing the corner and edges including washing of sand cleaning the surface, scaffolding and curing at least for 7 days, cost of water, electricity and other charges etc. all complete in all respect as per drawing and accepted by the Engineer.	2500	Sft	30	75,000	
	5.10-Supply and filling of 16mm-25mm sized Gravel in the Planted Gravel filter plant of layer by layer as per drawing and accepted by the Engineer.	600	Cft	250	150,000	
	5.11-Supply and filling of 10mm-16mm sized Gravel in the Planted Gravel filter plant of layer by layer as per drawing and accepted by the Engineer.	400	Cft	250	100,000	
	5.12-Supply and filling of 2.50FM Sylhet Sand in the Planted filter plant of layer by layer as per drawing and accepted by the Engineer.	200	Cft	120	24,000	
	5.13-Supply and filling of 1", 1.5" & 2" size wood charcoal in the Planted filter plant of layer by layer as per drawing and accepted by the Engineer.	200	Cft	120	24,000	
	5.14-Supply fitting and fixing of 4" dia UPVc perforated pipe including all connecting accessories like bend, tee, solution	300	Rft	200	60,000	
	5.15-Supply and plant the Canna Indica plant.	100	Nos	50	5,000	
	5.16-Supply and fixing 9 ft height pre-cast pillar (5" x 5" size) with reinforced cement concrete works with minimum cement content relates to mix ratio 1:2:4.	35	nos	1,200	42,000	
	5.17-Supply and fixing 3"x3" wooden Joist with nail and screw ,allcomplete as per design,drawing specification and direction of the E-I-C	20	cft	900	18,000	
	5.18-Supply and fixing 2"x2" wooden Joist with nail and screw ,allcomplete as per design,drawing specification and direction of the E-I-C	20	cft	900	18,000	
	5.19-Supplying fitting fixing 1mm plastic Sheet for Roof on wooden frame with screws.	800	sft	45	36,000	
	5.20-4" dia UPVC pipe supplying for making rain water drainage (DOGA) fitting and fixing all complet	100	Rft	75	7,500	
	5.21-10" dia 20" Height C.C. Block	15	nos	500	7,500	
	(C) Sub Total				866,080	
6	Drying Bed Chamber					

<p>6.1- Earth Work Excavation for Dring bed foundation, polishing pond, planted gravel filter, inspection pit etc. by manuallly excavating earth to the lines, grades and elevation, providing necessary tools and plants, protecting and maintaining the trench dry, leaning the excavated earth at a safe distance out of the area enclosed by the layout etc. all complete and accepted by the Engineer, subject to submit method statement of carrying out excavation work to the Engineer for approval.</p>	980	Cft	12	11,760	
<p>6.2-Earth Back Filling Periphari of Supported Sand:Cement bags back side as per actual field required minimum 100ft lead as per specification of the Engineer-in-charge.</p>	490	Cft	10	4,900	
<p>6.3-Macadam work in foundation : 1st Class bricks, Filing sand Angular Shape 0.5 to 0.7 as per specification of the Engineer-in-charge.</p>	200	Cft	150	30,000	
<p>6.4-Sand filling in foundation trenches and plinth with sand having F.M. 0.8 in 150mm layers including leveling, watering and compaction by ramming each layer up to finished level as per design.</p>	200	Cft	35	7,000	
<p>6.5-Polyethylene Sheet: Providing single layer polythene sheet (0.18mm thick) weighting one kilogram per 6.5 square meter in floor or anywhere in ground floor underneath the cement concrete, etc.</p>	250	Sft	6	1,500	
<p>6.6-One layer of brick flat soling in foundation and roof slab bottom with frist class picked jhama bricks including preparation of bed filling the interstices with local sand, levelling etc. all complete and accepted by the Engineer.</p>	250	Sft	80	20,000	
<p>6.7-Cement Concrete work in foundation (1:2:4): Cement concrete work in foundation 1:2:4: mix proportion in any where upto required thickness using 19mm down graded picked jhama chips, medium sand (FM 1.7) and cement including spreading two layers of 0.3mm thick transparent PVC sheet, making chips, screening, cleaning, Laying, compaction and curing etc. all complete as per drawing, specification & instruction of the Engineer-in-Charge.</p>	100	Cft	230	23,000	

6.8-10" Brick work with first class bricks in cement sand (F.M. 1.2) mortar (1:4) and making bond with connected walls including necessary scaffolding, raking out joints, cleaning and soaking the bricks for at least 24 hours before use and washing of sand curing at least for 7 days in all floors including cost of water, electricity and other charges etc. all complete and accepted by the Engineer.	450	Cft	200	90,000	
6.9-Plastering Work with N.C.F: Minimum 12 mm thick cement sand (F.M. 1.2) plaster (1:4) with fresh cement to wall both inner or outer surface with NCF, finishing the corner and edges including washing of sand cleaning the surface, scaffolding and curing at least for 7 days, cost of water, electricity and other charges etc. all complete in all respect as per drawing and accepted by the Engineer.	950	Sft	30	28,500	
6.10-Supply and filling of 10mm-16mm sized Bricks chips in the drying bed of layer by layer as per drawing and accepted by the Engineer.	200	Cft	150	30,000	
6.11-Supply and filling of 2.50FM Sylhet Sand in the Planted filter plant of layer by layer as per drawing and accepted by the Engineer.	200	Cft	120	24,000	
6.12-Supply and filling of 1.50FM Local Sand in the Planted filter plant of layer by layer as per drawing and accepted by the Engineer.	400	Cft	35	14,000	
5.13-Supply fitting and fixing of 4" dia UPVc perforated pipe including all connecting accessories like bend, tee, solution	100	Rft	200	20,000	
6.14-Earth Ramp Making	1	Nos	5,000	5,000	
6.15-Supply and fixing 9 ft height pre-cast pillar (5" x 5" size) with reinforced cement concrete works with minimum cement content relates to mix ratio 1:2:4.	16	nos	1,200	19,200	
6.16-Supply and fixing 3"x3" wooden Joist with nail and screw ,allcomplete as per design,drawing specification and direction of the E-I-C	15	cft	900	13,500	
6.17-Supply and fixing 2"x2" wooden Joist with nail and screw ,allcomplete as per design,drawing specification and direction of the E-I-C	15	cft	900	13,500	
6.18-Supplying fitting fixing 1mm plastic Sheet for Roof on wooden frame with screws.	300	sft	45	13,500	

	(D) Sub Total				369,360	
7	Cleaning & Changing room					
	7.1- Earth Work Excavation for cleaning & changing room foundation, polishing pond, planted gravel filter, inspection pit etc. by manually excavating earth to the lines, grades and elevation, providing necessary tools and plants, protecting and maintaining the trench dry, leaning the excavated earth at a safe distance out of the area enclosed by the layout etc. all complete and accepted by the Engineer, subject to submit method statement of carrying out excavation work to the Engineer for approval.	70	Cft	12	840	
	7.2-Earth Back Filling Periphari of Supported Sand:Cement bags back side as per actual field required minimum 100ft lead as per specification of the Engineer-in-charge.	40	Cft	10	400	
	7.3-Macadam work in foundation : 1st Class bricks, Filing sand Angular Shape 0.5 to 0.7 as per specification of the Engineer-in-charge.	60	Cft	150	9,000	
	7.4-Sand filling in foundation trenches and plinth with sand having F.M. 0.8 in 150mm layers including leveling, watering and compaction by ramming each layer up to finished level as per design.	30	Cft	35	1,050	
	7.5-Polyethylene Sheet: Providing single layer polythene sheet (0.18mm thick) weighting one kilogram per 6.5 square meter in floor or anywhere in ground floor underneath the cement concrete, etc.	150	Sft	6	900	
	7.6-One layer of brick flat soling in foundation and roof slab bottom with frist class picked jhama bricks including preparation of bed filling the interstices with local sand, levelling etc. all complete and accepted by the Engineer.	117	Sft	80	9,360	
	7.7-Cement Concrete work in floor (1:2:4): Cement concrete work in foundation 1:2:4: mix proportion in any where upto required thickness using 19mm down graded picked jhama chips, medium sand (FM 1.7) and cement including spreading two layers of 0.3mm thick transparent PVC sheet, making chips, screening, cleaning, Laying, compaction and curing etc. all complete as per drawing, specification & instruction of the Engineer-in-Charge.	30	Cft	230	6,900	

	7.8-Supply and fixing 10ft 6Inch height pre-cast RCC Micro piller (5" x 5") with reinforced cement concrete works with minimum cement content relates to mix ratio 1:2:4.	6	Nos	1,500	9,000	
	7.9-5" Brick work with first class bricks in cement sand (F.M. 1.2) mortar (1:4) and making bond with connected walls including necessary scaffolding, raking out joints, cleaning and soaking the bricks for at least 24 hours before use and washing of sand curing at least for 7 days in all floors including cost of water, electricity and other charges etc. all complete and accepted by the Engineer.	150	Sft	90	13,500	
	7.10-Plastering Work with N.C.F: Minimum 12 mm thick cement sand (F.M. 1.2) plaster (1:4) with fresh cement to wall both inner or outer surface with NCF, finishing the corner and edges including washing of sand cleaning the surface, scaffolding and curing at least for 7 days, cost of water, electricity and other charges etc. all complete in all respect as per drawing and accepted by the Engineer.	300	Sft	30	9,000	
	7.11-Supply and fixing wooden purlin and rafter with nail and screw ,allcomplete as per design,drawing specification and direction of the E-I-C	10	Cft	1,200	12,000	
	7.12.32mm thick (Colored) Corrugated Iron Sheet for Fenching and Supplying, fitting and fixing 32mm thick corrugated iron sheet , fitting and fixing on wooden frame with screws.	250	Sft	80	20,000	
	7.13.32mm thick (Colored) Corrugated Iron Sheet for Roofing and Supplying, fitting and fixing 32mm thick corrugated iron sheet , fitting and fixing on wooden frame with screws.	150	Sft	80	12,000	
	7.14-C.I sheet Door Supplying & fitting,Fixing ,allcomplete as per design,drawing specification and direction of the E-I-C	2	Nos	1,500	3,000	
	7.15-Supply and fixing 500 liter water stroage tank for washing and cleaning as per direction of the E-I-C.	1	Nos	6,000	6,000	
	7.15-4" dia uPVC pipe supplying fitting and fixing all complet	40	Rft	75	3,000	
	7.16- Mini Information board as per direction of the E-I-C.	1	nos	500	500	
	(E) Sub Total				116,450	
8	Sludge Storage Tank					

<p>8.1- Earth Work Excavation for sludge storage tank foundation, polishing pond, planted gravel filter, inspection pit etc. by manually excavating earth to the lines, grades and elevation, providing necessary tools and plants, protecting and maintaining the trench dry, leaning the excavated earth at a safe distance out of the area enclosed by the layout etc. all complete and accepted by the Engineer, subject to submit method statement of carrying out excavation work to the Engineer for approval.</p>	190	Cft	12	2,280	
<p>8.2-10" Brick work with first class bricks in cement sand (F.M. 1:2) mortar (1:4) and making bond with connected walls including necessary scaffolding, raking out joints, cleaning and soaking the bricks for at least 24 hours before use and washing of sand curing at least for 7 days in all floors including cost of water, electricity and other charges etc. all complete and accepted by the Engineer.</p>	100	Cft	200	20,000	
<p>8.3-R.C.C.Work (1:2:4): Reinforced cement concrete works for the storage Tank bottom Slab having minimum cylinder crushing strength 25 MPa at 28 days with portland cement (conforming to BDS 232), best quality coarse sand (50% quantity of sand minimum F.M. 1.2 and 50% quantity of coarse sand of minimum F.M. 2.5) 20 mm down graded Brick chips including breaking chips and screening, centering, shuttering, mixing casting, laying, compacting, curing up to the recommended time, making shuttering fully leak proof, etc.</p>	50	Cft	300	15,000	
<p>8.4-Deformed bar (60 grade). Supplying, fabrication and fixing to details as per design deformed bar reinforcement in concrete in accordance a) 60 grade deformed bar with minimum fy=415 MPa with BSTI standard including straightening and cleaning rust, if any, bending and binding in position with supply of Gl. Wires etc. complete in all respects in all floors.</p>	100	Kg	110	11,000	
<p>8.5-Supply and fixing 10000 liter Sludge storage tank for washing and cleaning as per direction of the E-I-C.</p>	1	Nos	70,000	70,000	
<p>8.6-Supply fitting and fixing of 4" dia UPVc pipe including all connecting accessories like bend, tee, solution</p>	20	Rft	170	3,400	
<p>8.7-Supply fitting and fixing of 4" dia gate valve</p>	1	Nos	5,000	5,000	
<p>8.8-M.S. Round Stair as per design</p>	1	nos	10,000	10,000	

(F) Sub Total				136,680	
9	Polishing Pond, Soak Pit, Inspection pit, etc				
	9.1- Earth Work Excavation for settler tank & baffled reactor foundation, polishing pond, planted gravel filter, inspection pit etc. by manually excavating earth to the lines, grades and elevation, providing necessary tools and plants, protecting and maintaining the trench dry, leaning the excavated earth at a safe distance out of the area enclosed by the layout etc. all complete and accepted by the Engineer, subject to submit method statement of carrying out excavation work to the Engineer for approval.	2500	Cft	12	30,000
	9.2-Earth Back Filling Periphari of Supported Sand:Cement bags back side as per actual field required minimum 100ft lead as per specification of the Engineer-in-charge.	2500	Cft	10	25,000
	9.3-Sand filling in foundation trenches and plinth with sand having F.M. 0.8 in 150mm layers including leveling, watering and compaction by ramming each layer up to finished level as per design.	100	Cft	35	3,500
	9.4-Polyethylene Sheet: Providing single layer polythene sheet (0.18mm thick) weighting one kilogram per 6.5 square meter in floor or anywhere in ground floor underneath the cement concrete, etc.	400	Sft	6	2,400
	9.5-One layer of brick flat soling in foundation and roof slab bottom with frist class picked jhama bricks including preparation of bed filling the interstices with local sand, levelling etc. all complete and accepted by the Engineer.	400	Sft	80	32,000
	9.6-Cement Concrete work in floor (1:2:4): Cement concrete work in foundation 1:2:4: mix proportion in any where upto required thickness using 19mm down graded picked jhama chips, medium sand (FM 1.7) and cement including spreading two layers of 0.3mm thick transparent PVC sheet, making chips, screening, cleaning, Laying, compaction and curing etc. all complete as per drawing, specification & instruction of the Engineer-in-Charge.	130	Cft	230	29,900

9.7-10" Brick work with first class bricks in cement sand (F.M. 1.2) mortar (1:4) and making bond with connected walls including necessary scaffolding, raking out joints, cleaning and soaking the bricks for at least 24 hours before use and washing of sand curing at least for 7 days in all floors including cost of water, electricity and other charges etc. all complete and accepted by the Engineer.	320	Cft	200	64,000	
9.8-Plastering Work with N.C.F: Minimum 12 mm thick cement sand (F.M. 1.2) plaster (1:4) with fresh cement to wall both inner or outer surface with NCF, finishing the corner and edges including washing of sand cleaning the surface, scaffolding and curing at least for 7 days, cost of water, electricity and other charges etc. all complete in all respect as per drawing and accepted by the Engineer.	850	Sft	30	25,500	
9.9-36 Inch dia Ring for Soak Pit included fittings & Fixing	15	Nos	650	9,750	
9.10-Supply fitting and fixing of 4" dia UPVc pipe including all connecting accessories like bend, tee, solution	100	Rft	75	7,500	
9.11-Wire Mesh Fencing with vertical 5"x5"X8-0" RCC post as per direction of the Engineer-in-charge (.Vertical post 4nos-12mm dia vertical rod,10mm dia tie 6"C/C, RCC Base 10"x 10"x 5", X & Y Both direction 10mm dia rod 6" C/C). Horizontal three Layers Angle provide Size (1.5"x1.5"x 4mm).	1500	Sft	240	360,000	
9.12-Plastic Table 3'-0" x 2'-0" , Plastic Chair	1	nos	2,500	2,500	
9.13- C.I sheet Entry Double door Supplying & fitting,Fixing ,allcomplete as per design,drawing specification and direction of the E-I-C	1	nos	5,000	5,000	
(G) Sub Total				597,050	
Total				2,773,192	
Land Rent (1600x12) for One Year				19,200	
Grand Total				2,792,392	

In word: Twenty Seven Lac Ninety Two Thousand Three Hundred Ninety two taka only.