Estimate & BoQ the MPCACs of ECHO HIP 2026 SURAKKHA Projectc at Camp-24, Technaf, Cox's Bazar.

		Work Volume								
Sl no	**Description**	**Nos**	**Length**	**Width**	**Depth**	**Quantity**	**Unit**	**Rate in BDT**	**Amount in BDT**	**Remarks**
1	Mobilization, Dismantling and cleaning site before commencing actual physical work and during contract period and demobilization after completion of the works under contract to be accepted by the Engineer-in-charge. This work shall also cover cleaning and clearing, cutting or filling, dressing the project area on and in the ground to an extent that all the events of works of the project can be executed smoothly in a working environment with a particular attention on safety and security in all respects, and to stockpile the end outcome to a place for disposal agreed by the Engineer-in-charge, where, payments are to be based on ground area determined by the Engineer-in-charge and be proportionate to the percentage progress of work under contract as a whole in all respects and approved by the Engineer-						Item			
2	Earth work in excavation in all kinds of soil for foundation trenches necessary tools and plants, protecting and maintaining the trench dry etc., stacking, cleaning the excavated earth at a safe distance out of the area enclosed by the layout etc. all complete and accepted by the Engineer-in-charge, subject to submit method statement of carrying out excavation work to the Engineer-in-charge for approval. However, engineer's approval shall not relieve the contractor of his responsibilities and obligations under the contract. Earthwork in excavation in foundation trenches up to 1.5 m depth and maximum 10 m lead.	21	2	2	2	168	cft			
3	**Single layer brick flat soling** in base and floor work with first class bricks as per alignment, camber and grade including filling joints with sand etc. complete including cost of all materials and accepted by the Engineer-in-charge.	1	33	24		792.00	sft			
4	**Sand filling** in foundation trenches and plinth with sand having minimum **F.M. 0.5** in 150 mm layers including leveling, watering and compaction to achieve minimum dry density of 95% with optimum moisture content (Modified proctor test) by ramming each layer up to finished level as per design supplied by the design office only, all complete and accepted by the Engineer-in-charge.	1	25	33	1.25	1031.25	cft			
5	**Reinforced cement concrete works** with minimum cement content relates to **mix ratio 1:2:4** having cement best quality for coastal belt/ Sulphate resisting cement)) sand (50% quantity of best local sand (F.M. 1.5)and 50% quantity of Sylhet sand or course sand of equivalent F.M. 2.5) **and 20mm down well brick chips** including braking chips and screening, making, placing shutting in position, & maintaining true to plumb, making shutter, water tight properly, placing reinforcement in position, mixing in standard mixer machine with hopper and fed by standard measuring boxes, casting in forms, compacting by vibrator machine and curing at least for 28 days, removing centering shuttering including cost of water including cost of water, electricity, testing & other charges etc. all complete as per design, Drawing & driection of The EIC									
a	In base	18	1.5	1.5	0.5	20.25	cft			
b	In short column	18	0.5	0.5	2.5	11.25	cft			
c	In column	18	0.42	0.42	9	28.5768	cft			
d	In grade beam	1	195	0.5	0.5	48.75	cft			
e	In ramp & landing	1	44	3.25	0.25	35.75	cft			
6	Sypplying, fabrication & fixing in details as per steel bar reinforcement in concrete in accordence with BSTI standard including straightening and cleaning rust, , if any bending & binding in position including supply of G.I. wires etc. complete in all respects in all floors as per design, drawing & direction of the Engineer- in -charge		2.1687		222	481.441	kgs			

		Work Volume								
Sl no	**Description**	**Nos**	**Length**	**Width**	**Depth**	**Quantity**	**Unit**	**Rate in BDT**	**Amount in BDT**	**Remarks**
7	125mm brick work with 1st class bricks in cement sand (F.M.1.2)(for coastal belt sulphate resisting cement) 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 & other charges etc. all complete as per direction of the Engineer-in-charge.	1	110	1.5		165	sft			
8	75mm brick work with 1st class bricks in cement sand (F.M.1.2)(for coastal belt sulphate resisting cement) 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 & other charges etc. all complete as per direction of the Engineer-in-charge.	1	190	3		135	sft			
9	38 mm thick patent stone (1:3:6) flooring with net cement finishing (NCF) cement, best quality coarse sand and 8-10 mm stone or brick's chips or pea gravel including breaking of chips, screening, mixing,laying, compacting, washing and screening of sand (F.M 1.2) and curing at least for 7 days etc. including cost of water, electricity and other charges etc. all complete and accepted by the Engineer-in-charge.	1	28	24		672	sft			
10	Bamboo fenceing with small size round muli bamboo fixing with bamboo of available local mature Borak bamboo of average outer dia. 55mm/ RCC post and horizontal bamboo member of localy available bakal or muli bamboo by GI wire including door & window and all cost of wastage, cutting, carrying and wages for installation etc.	1	190	6		1140	rft			
11	Wood work in roof frame like truss, wall plate, rafter, purlin etc. with local available good quqlity seasoned of matured timber. All work complete as per design, drawing, specification and direction of the EIC including the application of 2 coats of coal ter. The rate will beb determined by all kind of wages, wastage, cost of all materials, like wood , iron nails, tin plates for joints, coal tar etc.	1				38	cft			
12	0.38 mm CCI sheet roofing fixing with a wooden roof frame with cap iron nails including cost of Cci sheet, similar colar plane sheet ridge of 18" (inch) width, iron nails, wastage and wages of roof fitter all works complete as per direction of the EIC.	1	42	32		1344	sft			
13	Painting to interior wall and weather coat on exterior wall surface on a primer coat by sealer and also painting to bamboo fence all work complete as per direction of the EIC.	2	190	9		3420	sft			
14	Bemboo torza ceiling with necessary bemboo torza of available mature muli bemboo including all cost of torza making kniting, fitting, fixing with all materials and wastage, cutting, carrying etc. all work complete as per direc & satisfection of the EIC	1	28	24		672	sft			
15	Supplying, fitting, and fixing an Indian-style squatting toilet pan made of specially coloured, glazed porcelain, long-pan type (RAK/STAR/Stella), of standard size (510 × 410 × 250 mm) and approximately 12.5 kg in weight, including preparation of the base with cement concrete and wire mesh or reinforcement rods, if necessary, on all floors; making holes wherever required; repairing and making good any damages; and completing all necessary fitting, fixing, finishing, and connections, including all required accessories, as per the approval and acceptance of the Engineer-in-Charge.					2	pcs			
16	Supplying, fitting and fixing best quality plastic low-down including all other necessary accessories and all work complete as per direction of the EIC.					2	pcs			

		Work Volume								
Sl no	**Description**	**Nos**	**Length**	**Width**	**Depth**	**Quantity**	**Unit**	**Rate in BDT**	**Amount in BDT**	**Remarks**
17	Supplying, fitting and fixing white glazed vitreous (RAK/STAR/Stella) special colored W/H Basin excluding pedestal of 450 mm X 350 mm in size,10kg of weight including fitting, fixing the same in position with heavy type C.I. Brackets, 30 mm dia PVC waste water pipe with brass coupling (not exceeding 750mm in length), basin waste with chain plug including making holes in walls and floors and fitting with wooden blocks, screws and mending good the damages, finishing etc. all complete as per direction of the Engineer-in-charge.					1	pcs			
18	Supplying, fitting and fixing best quality plastic pillar cock including all other necessary all work complete as per direction of the EIC					1	pcs			
19	Supplying, fitting and fixing standard size colored plastic soap tray including making holes in walls and mending good the damages with cement mortar (1:4) etc. all complete as per direction of the EIC					3	pcs			
20	Supplying, fitting and fixing of special colored plastic toilet paper holder of size (150 x mm x 150 mm x 126 mm) including making holes in walls and mending good the damages with cement mortar(1:4) etc. all complete as per direction of the Engineer-in-charge.					2	pcs			
21	Supplying, fitting and fixing good-quality plastic-made angle stop cock/ open stop cock of approved brand and standard size, including all necessary fittings, connections and accessories, complete in all respects as per the approved specifications and accepted by the Engineer-in-Charge.					3	pcs			
22	Supplying, fitting and fixing good-quality plastic-made bib cock of approved brand and standard size, including all necessary fittings, connections and accessories, complete in all respects as per the approved specifications and accepted by the Engineer-in-Charge.					4	pcs			
23	Supplying, fitting and fixing of floor grating net in traps or in drains including making holes in walls/floors and mending good the damages with cement mortar (1:4) etc. all complete approved and accepted by the Engineer- in- charge. of following type Approx. 125 mm plastic floor grating net.					2	pcs			
24	Supply, fitting & fixing of 400 mm dia C.I. man hole cover etc. all complete approved by the Engineerin-charge.					3	pcs			
25	Supplying fitting & fixing of sanitary & plumbing line wairing, connecting with existing over-head water tank including required PVC coil pipe/ PVC thread pipe of 16mm & 12mm dia where necessary including necessary accessories like, socket ,union, T-socket, R socket, nipple, clamp, royel plug, screw etc complete in all respects as per the approved specifications and accepted by the Engineer-in-Charge.	1	110			110	rft			
26	Supplying fitting & fixing of 100mm PVC (2.7 mm thick pipe for sewrage line including required PVC socxket, bend, inspoection pit from bath room to existing septic tank including all cost of earth cutting, cc work, wire mesh, wages complete in all respects as per the approved specifications and accepted by the Engineer-in-Charge.	1	65			65	rft			
26	Supplying, fitting and fixing country made glazed wall tiles complying BDS ISO 13006: 2015, irrespective of color &/or design, with 20 mm thick cement sand (F.M. 1.2) mortar (1:3) base and raking out the joints with white cement including cutting, laying and hire charge of machine and finishing with care etc. including cost of water, electricity and other charges complete in all respect and accepted by the Engineer-in-charge.(Bathroom wall 200mm x 300mm size)	2	18	3		108	sft			

		Work Volume								
Sl no	**Description**	**Nos**	**Length**	**Width**	**Depth**	**Quantity**	**Unit**	**Rate in BDT**	**Amount in BDT**	**Remarks**
27	Supplying, fitting and fixing country-made homogeneous floor tiles (300 mm × 300 mm), complying with BDS ISO 13006:2015, having water absorption of ≤ 0.5% and modulus of rupture (MOR) of ≥ 27 N/mm², irrespective of colour and/or design. The work shall include applying suitable tile adhesive to the full thickness of the tiles, filling joints with appropriate tile grout, cutting, shaping, laying and fixing the tiles to the required line, level and slope, including the provision of the required patent stone base, all complete in accordance with the specifications and as directed and accepted by the Engineer-in-Charge.	2	5	6		60	sft			
28	Supplying, fitting & fixing of 38 mm dia GI pipe at bath rooms wall including all required materials like, clamp, royel plug, screww etc complete in all respects as per the approved specifications and accepted by the Engineer-in-Charge.	2	18			36	rft			
29	Supplying , fitting & fixing of MS railing at one side of ramp made by 38mm & 25 mm MS pipe made accordin to supplied design & specification fixing with RCC ramp welded with prefix rod and provied 2 coat of synthetic enamai paint complete in all respects as per the approved specifications and accepted by the Engineer-in-Charge.	1	40			40	rft			
30	Supplying, fitting, fixing of electrical open wireing with two-in-core wire of 1.3/1.5/2.0/2.5mm size (BRB/BBS/RK Kable/ Bizli/ or local available electric wire, 4 nos 56" & 1 no 48" ceiling fan, 18 nos blub with holder, 2 nos two pin socket point, required ceiling rose, switch, board, electric meter & meter board etc. complete in all respects as per the approved specifications and accepted by the Engineer-in-Charge.	1				1	LS			
31	Miscellaneous cost (for round of)									
	Total									
In word:										

Note: Here, it is assumed that electricity, a running water supply, and an existing septic tank for the sewage system

Engr. Sadananda Bhattacharjee
Head, Engg. Unit
FIVDB, Khadimnagar, Sylhet