



Eco-Social Development Organization (ESDO)

Adabor, Dhaka-1207.

Open Tendering Method (OTM)

(Tender Document/Schedule)

Description of Works: Renovation of Evacuation Shelter (Construction) Works under the Flood Response and Recovery (FRR) project implemented in Noakhali district under Chattogram division, particularly Char Kakara, Ghosbag, Rampur and Dhanshalik unions under Companiganj and Kabirhat upazilas

DATE: 23.04.2026

REFERENCE: ESDO/Purchase/126/652/2025-2026

Office: Adabor, Dhaka

The Eco-Social Development Organization (ESDO) is hereby requesting you submit your bid proposal for the **Renovation of Evacuation Shelter (Construction) Works**, as per the Tender Documents.

Tender must be submitted on or before **30.04.2026 10:30 AM**, **Opening Time: 11:00 AM** via **courier / post office / directly or Via Email (esdotender@gmail.com)** to the address below:

**Convener, Central Procurement Committee
ESDO Dhaka Office,
Baitul Aman Housing Society, Road No: 8, House No: 748,
Adabor, Dhaka-1207.**



Tenders should be submitted in envelope in the above-mentioned **“Tender for Renovation of Evacuation Shelter (Construction) Works for ESDO- Flood Response and Recovery (FRR) project- implemented in Noakhali District, Chattogram Division”**.

It shall remain your responsibility to ensure that your tender will reach the address above on or before the deadline. Tenders that are received by Eco-Social Development Organization (ESDO) after the deadline indicated above, for whatever reason, shall not be considered for evaluation.

Please take note of the following requirements and conditions about the supply of the goods & related works mentioned above:

Exact Address of Delivery Locations	As per Annex-I
Latest expected completion date and Time	100% of the work should be completed by 31th May 2026 .
Preferred Currency of Tender	<input checked="" type="checkbox"/> Local Currency: BDT (Taka)
Value Added Tax on Tender Price	<input checked="" type="checkbox"/> Must be inclusive of Tax and other applicable indirect taxes
Deadline for the Submission of Tender	30 /04 /2026, 10.30 AM (Those who will submit the tender are invited to present at the time of tender opening). Opening Time: 11.00AM
Price Tender, Bill/Invoice from the contractor side, shall be in this language	<input checked="" type="checkbox"/> English



Documents to be submitted for the Eligibility Criteria	Bidders must have legal capacity to enter into the Contract. Bidder, in support of its qualification, must submit the following documents: i) Valid Trade License. ii) Tax Identification Number (TIN) Certificate iii) Update PSR copy (Tax Return) iv) 13 Digit BIN Number v) Mushak 6.3 VAT invoice/Bill N.B.: All Prospective bidders must submit the above documentation to substantiate the above eligibility criteria. Failure to do so shall result in disqualification.
Period of Validity of Quotes starting the Submission Date	<input checked="" type="checkbox"/> 90 days.
Partial Bid	<input checked="" type="checkbox"/> Not Permitted.
Payment Terms	<input checked="" type="checkbox"/> Payment will be made upon satisfactory completion, as per the Terms and Conditions.
Performance Security	<input checked="" type="checkbox"/> The selected vendor should deposit 5% of the total awarded amount as a Pay Order . The Performance Security will be returned to the contractor upon successful award of the PO, One Year (Warranty Period) after the PO is awarded.
Evaluation Criteria	Evaluation Method: Technical = 60 Marks (As Per Annex III) Financial = 40 Marks , (Lowest Price / Bid Price) × 40) Proper formula added:
Procuring Entity will award to:	<input checked="" type="checkbox"/> One Contractor.
Type of Contract to be Signed	<input checked="" type="checkbox"/> Purchase Order (PO) <input checked="" type="checkbox"/> Another Type/s of Contract
Special Conditions of Contract	<input checked="" type="checkbox"/> Poor quality/unacceptable works delivery, and failure to make the necessary corrections/replacements as requested by the procuring entity, will result in cancellation of the PO.
Conditions for Release of Payment	<input checked="" type="checkbox"/> Written acceptance of works based on full compliance with PO/ Contract requirements after agreed delivery and successful installation at the delivery point.
Costs and ownership of tenders	Costs incurred by the tenderers in preparing and submitting the quote requests are not reimbursable.
Annexes to this Tender Document	<input checked="" type="checkbox"/> Annexe- I: Address & Time Schedule for Construction Work <input checked="" type="checkbox"/> Annexe -II: BOQ for Construction Works. <input checked="" type="checkbox"/> Annexe -III: Technical Evaluation Sheet <input checked="" type="checkbox"/> Annexe- IV: Design and Drawing <input checked="" type="checkbox"/> Annexe- V: Terms and Conditions <input checked="" type="checkbox"/> Annexe- VI: Tender Submission Letter. <input checked="" type="checkbox"/> Annexe- VII: Contract Agreement <input checked="" type="checkbox"/> Annexe- VIII: Declaration form.
Contact Person for Inquiries (Written inquiries only)	Convenor/Member Secretary, Central Procurement Committee ESDO, Adabar, Dhaka,  Email: esdotender@gmail.com  Mobile.+8801713-149 303

Annex-I



Address & Time Schedule for Renovation of Evacuation Shelter (Construction) Works**Address for Renovation of Evacuation Shelter (Construction) Works:**

Sl. No	Location for work	Qty
1	Name: Najirhat A Malek GPS & Cyclone Shelter Location : Near of Najir Hat Bazar, Union- CharKakara, Upazila- Companiganj. Noakhali. GPS: 22.809944,91.267840	1
2	Name: Purbo Lamchi Ledu Companirhat GPS & Cyclone Shelter Location: Near of Companir Hat, Union- Ghosbag, Upazila- Kabirhat. Noakhali. GPS: 22.800336,91.178044	1
3	Name: Bamni GPS & Cyclone Shelter Location: Near of Bamni Bazar, Union- Rampur, Upazila- Companiganj. Noakhali. GPS: 22.819613,91.288946	1
4	Name: Char gulla kali GPS & Cyclone Shelter Location: Near of Dhanshalik bazar more, Union- Dhanshalik, Upazila- Kabirhat. Noakhali. GPS: 22.789570,91.236810	1
Total		4

Time Schedule for Renovation of Evacuation Shelter (Construction) Works:

Sl. No.	% of work	Date
1	100%	By 31 th May, 2026



BOQ for Renovation of Evacuation Shelter (Construction) Works1. **Shelter/Scheme Name:** Najirhat A Malek GPS & Cyclone Shelter,**Location:** Near of Najir Hat Bazar, Union- CharKakara, Upazila- Companiganj. Noakhali.

Item	LGED Code	Description	Unit	Quantity	Rate/BDT	Amount/BDT
A		Alignment with the National Cyclone Shelter Policy				
A.1	Based on market analysis	Mobilization with additional scaffolding for repairing RCC slab cornice/drop wall/outer wall etc of two storied building, cleaning site before commencing actual physical work and during contract period and demobilization after completion of the Works under contract accepted by Engineer. This work shall also covers 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 concern Engineer, where, payments are to be based on ground area determined by the concern Engineer and be proportionate to the percentage progress of work under contract as a whole in all respects and approved by the ESDO E-I-C.	Item	1.00		
A.2	Based on market analysis	Rooftop Red Marking Signal Light : Supplying, fitting and fixing signal red light to ensure the shelter is visible during disasters, especially at night and in poor weather conditions. Type: LED-based solar-powered aviation warning light. Material: Weather-resistant, UV-stabilized polycarbonate and aluminum alloy body. Light Source: High-intensity red LED with a visibility range of at least 2-3 kilometers. Solar Panel Type: Monocrystalline or polycrystalline. Power Output: Minimum 5W to 10W depending on the light's power requirement. Battery: Lithium-ion battery with at least 24 hours of backup (fully charged). Lighting Mode: Steady or flashing (adjustable); Flash rate: 20-60 flashes/min. Ingress Protection: Minimum IP65 for water and dust resistance. Light stand : 2 inch dia, 3 mm thick and 1.5 m height GI pipe with a base plate on bottom with 4 nos 10 mm dia bolt and mounting plate on top Mounting: Steel or aluminum mounting bracket compatible with the rooftop structure. Other Features: Automatic light sensor for dusk-to-dawn operation. All complete as per direction of the ESDO E-I-C.	Nos	1.00		



A.3	Based on market analysis	<p>Mike with Siren System Installation: Supplying, fitting and fixing mike with siren system to broadcast announcements and emit a siren to alert the community during emergencies. Microphone Type: Handheld or gooseneck microphone with a noise-canceling feature. Frequency Response: 50 Hz to 15 kHz. Build: Durable, shock-resistant, and weather-resistant. Amplifier: Power Output: Minimum 50W to 100W. Voltage: Compatible with the cyclone shelter's power system (solar backup preferred). Input Ports: Multiple inputs for microphone and auxiliary devices. Siren System Sound Range: Audible at a distance of 1-2 kilometers in open areas. Sound Patterns: Multi-tone options (wailing, steady, pulse) with adjustable volume. Power Source: Solar or AC/DC with a backup battery (minimum 6 hours of runtime). Speakers Type: Outdoor horn speakers with high weather resistance (IP65 minimum). Power Output: Minimum 20W per speaker. Material: Aluminum or ABS body with UV-resistant coating. Accessories: 1c-2x1.5 sqmm (BYA) Cable wire as per need. Professional PA System Siren: XLR connectors (3 pin or 4 pin) , and Magnetic microphone mounts. MS Cage Size: 4'x2.5' or As per need of Mike siren size. All complete as per direction of the ESDO E-I-C.</p>	Item	1.00		
A.4	Based on market analysis	<p>Rooftop "S" Mark Painting : Supplying and painting "S" Mark on the roof top to identify the shelter as a designated emergency cyclone shelter from aerial views. Dimensions: Minimum 3 meters in length and 1.5 meters in width for clear visibility or as per drawings Color: High-contrast red paint with a white border (reflective for night visibility). Paint Type: Base Coat Anti-corrosion primer suitable for concrete surfaces. Top Coat: Reflective polyurethane or epoxy paint with UV and weather resistance. Durability: Weatherproof and resistant to rain, sun, and wind for a minimum of 5 years. Surface Preparation: Cleaning, sanding, and priming of the concrete rooftop before painting. Application: Two coats of reflective paint applied with a roller or spray for uniformity. All complete as per direction of the IOM E-I-C.</p>	Nos	1.00		
B		Civil Works				
B.1		Preliminary Works				



B.1.2	Based on market analysis	<p>Sign Board with Signage: Supplying, transporting, fitting and installation of approved best quality country-made mild steel (MS) signboard as per drawing, complete in all respects and accepted by the Engineer-in-Charge (E-I-C); size 2000 mm × 1000 mm, made of 2 mm thick MS sheet continuously welded on both sides with MS rectangular hollow box frame comprising 75 mm × 75 mm × 3 mm vertical columns and 50 mm × 50 mm × 3 mm horizontal members, including 4 nos. 12 mm dia anchor bars welded with column box and embedded minimum 450 mm into foundation; RCC foundation consisting of 400 mm × 400 mm × 400 mm footing and 250 mm × 250 mm × 600 mm column base using mix ratio 1:1.5:3 with minimum cement content ensuring $f_{cr} = 24$ MPa, $f_c = 17$ MPa at 28 days and water-cement ratio not exceeding 0.45, conforming to ACI/BNBC/ASTM standards, using cement BDS EN-197-1-CEM-I 52.5N or ASTM C150 Type I, sand comprising 50% local (F.M. 1.2) and 50% Sylhet/coarse sand (F.M. 2.2), and 20 mm down well-graded stone chips as per ASTM C-33; including proper shuttering, reinforcement (12 mm dia bars @ 200 mm c/c in footing, 4 nos. 12 mm dia bars in column, 10 mm dia stirrups @ 150 mm c/c), machine mixing or batching plant, vibration, curing for minimum 28 days, and all associated costs such as water, electricity and testing; including dismantling of existing concrete if required, site cleaning and debris disposal, and 125 mm thick brick flat soling using 1st class bricks at foundation base (400 mm × 400 mm); surface preparation and painting with one coat anti-corrosive paint and two coats synthetic enamel paint in dark blue (IOM official color: RGB 0/51/160, HEX #0033A0, CMYK 100/80/3/2, Pantone 286C); also including supply and installation of 2 nos. high-quality reflective stickers (hexagonal pattern) of size 2000 mm × 1000 mm with prior sample approval from E-I-C.</p>	Item	1.00		
B.2		Structural Works				
B.2.1	Based on market analysis	<p>Rebar: Supplying and fabrication of Ribbed or deformed bar reinforcement for all types of RCC work including straightening, removing ruts, cleaning, cutting, hooking, bending, lapping and/or welding wherever required as directed, placing in position, tying with 22 BWG black annealed binding wire (PVC coated in case of FBEC rebar) double fold, cost of binding wire and anchoring to the adjoining members wherever necessary, supplying and placing with proper cover blocks (1:1), supports, chairs, spacers, splices or laps etc. including cost of all materials, cost of labour, cost of equipment & machinery, loading and unloading, transportation, all other incidental charges and work at all leads and lifts etc. to complete the work as per design, drawing, specifications and direction of the E-I-C.</p>	kg	2.00		
B.2.2	Based on market analysis	<p>Plaster Repair: 12mm thick cement plaster (1:3) on RCC/masonry surface with on the areas of beam, Column, slab, lintel, cornice, parapet wall, soffit of chilacota etc where wall plaster to be rectified and finish smooth including removing existing plaster with chipping etc all complete as per instruction of</p>	Sq. m.	24.40		



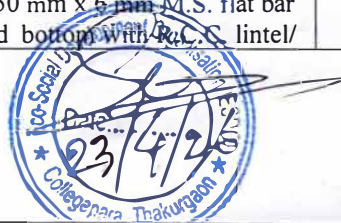
		IOM Engineer in- Charge . The rate shall be included for masonry water tank plating with NCF and water proofing additive.				
B.2.3	Based on market analysis	Water proofing on the roof slab: Chipping the roof surface by claw hammer and proper cleaning by flashing water, provide 50mm (+-) patentstone layer on the existing roof, applied water proofing chemical on the roof slab before ensuring proper slope by patenstone if required and approved quality material (Barger or equivalent-2 coats (horizontal and vertical direction) water Mr. Expert water barrier/Brush bond (13 Sq,M/ 20.088 kg pac) over a coat Nito bond SBR Latex plus and 2-coats Flexible Roofing Compound on top as finishing coats - color green) after preparation of the surface by removing existing rendering in alternative panels etc. After completing water proofing works on roof, the roof need to be seen smooth slope surface and uniform color. All complete as per direction of the E-I-C. The rate will include cleaning, removing and washing existing top portion of slab.	Sq. m.	247.50		
B.2.4	Based on market analysis	Brick work 125mm : brick work with Kiln 1st class bricks/automatic machine made first class bricks in cement mortar (1:4) with Portland Composite cement (CEM II/AM, 42.5N) and best quality sand (minimum FM1.2) and making bond with connected walls with uniform width and depth joints, true to vertical and horizontal lines in/c necessary scaffolding, raking out joints, cleaning and soaking the bricks at least for 24 hours before use, washing of sand, curing for requisite period, etc. all complete as per direction of the E-I-C. Kiln bricks	Sq. M.	3.03		
B.2.5	5.12.3	Plastering with NCF: minimum 12mm thick cement plaster (1:4) with neat cement finishing including washing of sand and added Denso-01, finishing the edges and corners and curing for the requisite period etc. all complete as per direction of the Engineer-in-Charge. (Sand minimum FM. 1.2 to be used)	Sq. M.	6.45		
B.3		Ground Floor Development Works				
B.3.1	5.12.3	Floor Plastering with NCF: minimum 12mm thick cement plaster (1:4) with neat cement finishing including washing of sand and added Denso-01, finishing the edges and corners and curing for the requisite period etc. all complete as per direction of the Engineer-in-Charge. (Sand minimum FM. 1.2 to be used)	Sq. M.	188.07		
B.3.2	Based on current market analysis	EWEx(C/P/D): Earthwork in excavation to the lines, grades and elevation as shown in the drawing, filling baskets, carrying and disposing of all excavated materials including existing sand bags in both sides of road at a safe distance designated by the E-I-C in all types of rocky, gravelly, slushy or organic soil, levelling, dressing, etc. all complete for an initial excavation depth of 2m and an initial lead not exceeding 20m, including arranging for and supplying all necessary tools and equipment at work site, etc. complete as per direction of the E-I-C.	cum	0.43		



B.3.3	5.02.08.1	Sand Filling (FM 0.50) in the toilet foundation to improved sub-grade with sand free from dust, earth, other vegetable growth and foreign materials including supplying all materials, spreading, watering, compacting by appropriate mechanical means to obtain a minimum Soaked CBR 8% or Design CBR at minimum compaction 98% of MDD (Modified), etc. all complete as per direction of the E-I-C.	cum	1.96		
B.3.4	Based on current market analysis	Cement concrete 75mm thick lean cement concrete (1:2:4) in floor and wherever needed with Portland Composite Cement (CEM II/AM, 42.5N), best quality coarse sand (minimum FM1.2) and 20mm down well graded picked brick chips (LAA value not exceeding 38), in/c breaking bricks into chips screening, mixing by concrete mixer machine, laying, compacting, washing of sand, curing for requisite period, etc. all complete as per direction of the E-I-C. Top surface of floor shall be non-screeding with proper finishing.	sqm	13.25		
B.3.5	5.03.05	Providing single layer polythene sheet (0.18mm thick) weighing one kilogram per 6.5 square meter in floor or any where in ground floor underneath the BFS, etc. all complete as per specifications and direction of the E-I-C.	sqm	13.25		
B.3.6	Based on current market analysis	Rebar: Supplying and fabrication of Ribbed or deformed bar reinforcement for all types of RCC work including straightening, removing ruts, cleaning, cutting, hooking, bending, lapping and/or welding wherever required as directed, placing in position, tying with 22 BWG black annealed binding wire (PVC coated in case of FBEC rebar) double fold, cost of binding wire and anchoring to the adjoining members wherever necessary, supplying and placing with proper cover blocks (1:1), supports, chairs, spacers, splices or laps etc. including cost of all materials, cost of labour, cost of equipment & machinery, loading and unloading, transportation, all other	kg	2.00		
B.4		Door, Window, Grill Repair Works				
B.4.1	Based on current market analysis	Supplying, fitting and fixing steel window/Door shutter as per existing design and frames welded with existing grill of window having requisite Nos. of vertical and horizontal standard Galvanized MS (19mmx19mmx3mm) 'Z' section for shutter with F.I. clamp 75mmx3mm duly embedded with Cement Concrete (1:2:4) and mending good the damages in/c all cost of charges for fabrication and manufacture by welding, riveting, etc. supplying all essential fittings like stopper, handle, 3 nos catch hook 300mm long adjustable iron cleat, 50mm long pin hinge in/c supplying, fitting, fixing 18 BWG M.S. sheet in position welded to steel shutter with Tee stiffener (2 nos.) made with 25mm and 19mm flat bars fitted to shutter frame in three equal part and upper part should be provided with 5mm transparent polycarbonate sheet , vertically in each shutter etc for all ground floors. The rate including removing existing window shutter and handover to SMC with repairing window seal by plastering, applying anticorrosive and 2 coats enamel paint and finishing etc all complete as per direction of the E-I-C.	sqm	5.40		



B.4.2	Based on current market analysis	Window repair: Repair of metal swing frame window shutter with polycarbonate sheets by replacing the corroded GI sections and existing polycarbonate sheets should be replaced with 18 BWG GP. sheet. Existing MS/GI sections are 3mm thick and 19mm wide, shutter frame in three equal part and upper part should be provided with 5mm transparent polycarbonate sheet , vertically in each shutter, fabricating, welding, installation, cost of electricity, workshop charge, carriage, fixing with MS clamps or steel royal bolt in walls/RCC member. The rate including window seal by plastering, applying 2 coats anticorrosive and 2 coats enamel paint (Berger) and finishing etc all complete as per direction of the E-I-C. (Total wt. per m2 should be 11.00 kg. For each kg excess or less add or deduct, as the case may be, @Tk. 140.00 per kg)	sqm	13.50		
B.4.3	Based on current market analysis	Minor Wooden door repair (2.1Mx1m): Repairing of existing (100mmx38mm) lock rail, (125mmx38mm) and bottom rail (225mmx38mm), paneling 25mm thick one side raised provided with best quality 6 nos. 100mm iron hinges, 2 nos. best quality 12mm dia 300mm and 225mm long iron tower and socket bolts 2 nos. heavy type nickel plated handles, hinge cleats, buffer blocks and finished with sand papering for all floors etc. all complete as per direction of the E-I-C. (Single/Double leaf. All sizes of wood are finished). Jack wood. The rate includes a Heavy Security 60mm Pad Lock (HMBR) for each door.	nos	3.00		
B.4.4	Based on current market analysis	Hand rail repair at Ground floor: Supply and refixing of existing GI hand rails (Top chord 60mm dia GI pipe of 2.9mm wall thick) including a flat bar (25mm*5mm) at the bottom with vertical 20 mm dia GI pipes for stair/parapet with supply of all materials and accessories and replace the damaged/lost portions in hand rails with necessary removing, welding, fixing with the objects, carrying, loading, unloading, repairing hole, applying zinc-oxide etc all complete as required	Sq.M.	27.35		
B.4.5	Based on current market analysis	Supply, fabricate and fix 3 nos railing gates - (2.78m x .95m) to ground floor hand rails with Top chord - 2"diameter 3mm thick GI pipe, Bottom chord - 1"diameter 3mm thick Gi pipe & internal verticals - 1/2"diameter 2mm thick Gi pipes at 6"centres. Rate shall include for fixing to wall and columns, apply of 2 coats of anticorrosive and 2 coats of enamel paints, floor finishing, cutting railing and making opening for ramp etc all complete.	sqm	4.80		
B.4.6	Based on current market analysis	New collapsible gate Manufacturing, supplying, fitting and fixing M.S. collapsible gate of any design and shape made of 25 mm x 25 mm x 3 mm M.S. angle placed @ 112 mm c/c vertically and connecting the same with each other by 25 mm x 3 mm M.S flat bar scissors 525 mm, 600 mm long provided in 3 rows including cutting the different M.S. members to required sizes, fabricating, welding, riveting with required size rivets, providing required size wheels, pulling handles on both sides, suitable locking arrangement, electrodes, grease and finally placing the same in position in between 2 (two) Nos. 50 mm x 50 mm x 6 mm M.S. tee rail made by welding 2 nos. 50 mm x 5 mm M.S. flat bar fitted and fixed at top and bottom with R.C. lintel/	sqm	3.30		



		roof slab, floors and side wall with required nos. 150 mm to 225 mm long 38 mm x 6 mm M.S.flat bar clamps one end welded with the gate member and the other end bifurcated and embedded in C.C. at the respective point including cutting holes and mending good the damages by pouring concrete (1:2:4) into the holes and finishing, etc. complete, painting 2 (two) coats with approved best quality synthetic enamel paint over a coat of anticorrosive painting, both end carriage, including greasing, electrodes, curing etc. complete as per drawing and design and accepted by the Engineer-in-charge				
B.4.7	Based on current market analysis	Supplying, fitting and fixing MS stair railing of standard height with 2 mm thick 62 mm x 25 mm MS Box for handrail fixing with 2 nos of consecutive MS vertical post of 2 mm thick 50mm x 18 mm MS Box (4 nos vertical support in each flight, each vertical support containing 2 nos of consecutive SS vertical box of 125 mm space) fixing with tread by 75 mm long royal bolt, welding 1.5 mm thick 38 mm x 12 mm 5 nos horizontal MS Box between vertical support as per drawing, design including carrying, polishing,fabricating, welding etc.all complete and accepted by the Engineer-incharge.	sqm	9.14		
B.4.8	5.10.03.01	Supplying, fitting and fixing window grills of any design made of 20mm x 3 mm mild steel section @ 100 mm c/c with outer frame of 25mm x 6 mm F.I. bar including fabrication, welding, cost of electricity workshop charges, carriage, cutting grooves, mending good the damages, tools and plants, finished with anti-corrosive painting (Red-Oxide) etc complete for all floors and accepted by the Engineer-incharge.(Total weight per sqm should be approx 10.00 kg. and add or deduct @ Tk. 100.00 for each kg/sqm excess or less respectively)	sqm	14.88		
B.5		Painting Works				
B.5.1	5.16.03.01	Plastic emulsion paint on internal wall: applying plastic paint (damp guard) on interior surface ceiling or slab/beam/column/wall with best quality and approved colour in a seal container from authorized manufacturer. Applying each coat and successive coat is to be applied as per manufacturer special procedure, to wall and ceiling in two coats over a coat of priming coat of water sealer and ready mixed putty of approved brand. It applied on sand papered and cleaned surface and after drying applied sealer coat, 2 coats of ready mixed wall putty of approved brand, each coat dried and smoothened by sand papering. Applying plastic emulsion paint one vertical and one horizontal coat for each coat and successive coat is to be applied after drying up of previous coat by brush/roller/spray in/c cleaning the plinth, floors, doors, windows, portions and ventilators by washing, rubbing, as necessary and sand papering the surface and necessary scaffolding, etc. curing for the requisite period etc. all complete for all floors i/c cost of all materials as per direction of the E-I-C. 3 Coat.The rate is included rubbing, removing damp/algae/ existing paint, minor wall/RCC surface repairing if required and preparing surface with proper washing/cleaning before	Sq. M.	825.15		



		applying prime coat.				
B.5.2	5.16.02	Weather coat exterior paint: applying exterior paint on outside wall surface as per manufacturer instruction specific two weather coats over a premier coat of approved quality and colour delivered from authorized local agent of the manufacturer in a sealed container. Applying one vertical and one horizontal coat for each coat and successive coat is to be applied after drying up of previous coat by brush/roller/spray in/c cleaning, washing, rubbing, as necessary and sand papering the surface and necessary scaffolding, etc. all complete for all floors i/c cost of all materials as per direction of the E-I-C. The rate is included rubbing, removing damp/algae/ existing paint, minor wall/RCC surface repairing if required and preparing surface with proper washing/cleaning before applying prime coat.	Sq. M.	808.79		
B.5.3	5.16.04.1	Enamel paint wooden mamber: Prepare the surface by removing dust apply two coats of wood primer and two coats of enamel paint on wooden frame and shutter of window. Rate shall include for minor repairs, wood putting, and necessary brushes, machine, masking tape, sand papers require for surface preparation and scaffolding etc all complete as per Direction of E-I-C .	Sq. m.	29.82		
B.5.4	5.16.04.2	Enamel paint for window grill: Prepare the surface by removing rust and apply two coats of anticorrosive paint and two coats of enamel paint on steel frame and shutter of window grill. Rate shall include for removing existing paint, rust, dust with minor repairs and necessary brushes, mechanical wire brush, masking tape, sand papers putty require for surface preparation and scaffolding etc all complete as per Direction of E-I-C .	Sq. m.	178.73		
B.6		Painting Works				
B.6.1	Based on current market analysis	Class Room Airt: In the school classrooms where various pictures and information are drawn, the pictures should be saved (videos, photos) and the painting work should be completed. After completing the painting work, the pictures should be re-drawn. all complete as per Direction of E-I-C .	Item	151.80		
C		Water Supply and Sanitation Facility works				



C.1	5.15.06.4	Supplying, fitting and fixing Wall tiles less than, equal or equivalent to 250 mm x 750 mm in sizes approved quality glazed ceramic wall tiles (RAK) on Toilets wall up to 1500mm high with 20 mm thick 1:3 cement sand (F.M.1.2) mortar base and raking out the joints with approved tile grout. Rate shall include for cutting laying and hire charge of machine and finishing with care etc. .	sqm	12.50		
C.2	5.15.01.1	Supplying and fixing approved quality 300mmx300mm Non-skid porcelain floor tiles (RAK) on toilet floor with 1:3 cement sand (F.M.1.8) mortar base and raking out the joints with approved colour tile grout including cutting and laying the tiles in proper way and finishing with care.	sqm	1.00		
C.3	7.29.3	Supplying, fitting and fixing of best quality country made 12 mm bib cock made from copper or copper alloy, chromium plated. The faucet conforms BDS EN 200:2009. The faucet tap shall be free from any leakage, permeation and other abnormalities. The water hammer value shall be 1.47 Mpa or under. The faucet after it has been operated 100000 times it shall be free from a seat-leakage and shall satisfy the reverse flow preventing performance. The inside and outside surfaces of the faucet shall be smooth and be free from blowholes, fissures, remarkable flows or injurious defects. The chromium plating on the faucet shall be of class 2 grade 1. The final coating should be done with chromium of minimum 0.1 micron. The faucet shall be made leak proof and fixing in position with selected tape etc. , all complete approved and accepted by the Engineer- in- charge. 12 mm CP open Bib Cock (PWD BW 26.29.3) Supply and fix 1/2" diameter brass or CP bib tap liver type	Nos.	5.00		
C.4	Based on current market analysis	Mirror (400 × 600 mm, bevelled edge) Supplying approved quality mirror of size 400 mm × 600 mm with bevelled edges, made of best quality float glass of uniform thickness with distortion-free reflection, silvered on the back with protective coating. The mirror shall be fitted and fixed in position with approved quality clips, screws, wall plugs or suitable adhesive backing, including all necessary fittings and accessories, complete in all respects as per design and direction of the Engineer-in-charge. Supply and fix 400x600mm bevelled edge mirror	Nos.	1.00		



C.5	Based on current market analysis	Supplying different inside dia best quality uPVC pressure pipe for water supply having specific gravity 1.35 - 1.45, and other physical, chemical, thermal, fire resistivity properties etc. as per BSTI approved manufacturer standards or ASTM, BS/ISO/IS standards fitted and fixed in position with sockets, bends, with all accessories such as Round grating/domed roof grating, bends, sockets etc. approved and accepted by the Engineer-in-charge. 25 mm dia wall thickness 2.2 mm - 3.4 mm (PWD BW 26.45.3)	M	10.00		
C.6	Based on current market analysis	GI Fittings (Socket, Elbow, Bend, Nipple, Plug, Tee, etc.) Supplying best quality galvanized iron (GI) pipe fittings including sockets, elbows, bends, nipples, plugs, tees and other necessary accessories of approved manufacturer, conforming to BSTI approved standards or ASTM/BS/ISO standards, complete in all respects. All fittings shall be properly threaded, fitted, and fixed in position with necessary jointing materials, sealing, and accessories as required, including cutting, threading, and installation work, as per design, drawing, and direction of the Engineer-in-charge, complete. 25 mm GI Socket, Elbow, Bend, Nipple, Plug, Tee & etc all complete as per direction of engineer	L.M	1.00		
C.7	Based on current market analysis	Stainless Steel (SS) Soap Case (1.2 mm thick) Supplying, fitting, and fixing approved quality stainless steel soap case made of minimum 1.2 mm thick SS sheet, corrosion-resistant and durable, of approved design and finish, including all necessary fittings, screws, brackets, and accessories. The item shall be properly installed in position as per drawing and direction of the Engineer-in-charge, complete in all respects. 1.2mm thick SS Soap case including fittings, fixing etc all complete	Nos.	2.00		
C.8	Page no 518 item number 631.	Supplying, fitting and fixing of 110 mm inside diameter & wall thickness 2.7 mm - 3.4 mm best quality PVC/HDPE rain water down pipe fitting, fixed in position with head and shoes, bends, min.20 mm width F.I. Bar clamp and nails, and including all accessories such as round grating/domed roof grating, bands, sockets approved and accepted by the Engineer- in- charge.	L.M	45.00		
D		Electrical Works with Fittings				
D.1	Based on current market analysis	MDB/SDB: Supplying, assembling, fitting, fixing & installation (with surface/concelled electric wiring for effective connection) of Main/Sub distribution board (Heavy Plastic/Metal enclosure) with necessary MCBs/DP/TP/SP, RCCB, Isolator, Basbar etc. as per sample and approval by E-I-C. Rate shall include for necessary electrical wiring from electric meter to the DB/SDB. Minimum one year warrantee	Nos.	1.00		



D.2	8.06.2.4	4 Gang Switch: Supplying, fitting and fixing 20mm thick switch board for fan regulators, lighting switches two pin and at the three pin socket outlets the switch board to be made of teak wood and varnished on all sides etc. all complete as per drawing, design and directions of the E-I-C.	Nos	10.00		
D.3	8.06.2.05	Power Socket: Providing & fixing 250 volts. 5 / 6 amps (minimum) concealed type following switch / switch socket Manufactured / Assembled and tested in accordance with IEC / VDE / NEMA / BS / JIS along with relevant BDS IEC standards mounted on required size 18 SWG galvanized plain sheet / PVC board (Self-extinguishing 650 Degree Centigrade) of 76.2 mm (3") depth. All electrical contacts shall be of brass / copper. MADE IN HONGKONG / MALAYSIA / SINGAPORE / S KOREA / THAILAND [PWD- 4.12.2] One gang switch & one 5/10 Amps. 2/3-pin socket combined.	Nos	10.00		
D.4	8.04.1.1	Circuit Breaker (SPMCB) Providing & fixing on a prepared board 250 volt grade following single pole miniature circuit breaker (SPMCBs) having minimum breaking capacity 6- KA / 10 KA with thermal over-current and instantaneous electromagnetic short circuit release provision as per BDS IEC and IEC / VDE / NEMA / BS / JIS standard. SPMCBs accepted / approved by the Engineer-in-charge. [PWD-4.4.1] 10 – 40 Amps (minimum 6 KA) MCB [PWD-4.4.1.1]	Nos	10.00		
D.5	8.04.1.2	Circuit Breaker (SPMCB) Providing & fixing on a prepared board 250 volt grade following single pole miniature circuit breaker (SPMCBs) having minimum breaking capacity 6- KA / 10 KA with thermal over-current and instantaneous electromagnetic short circuit release provision as per BDS IEC and IEC / VDE / NEMA / BS / JIS standard. SPMCBs accepted / approved by the Engineer-in-charge. [PWD-4.4.1] 60/63 Amps (minimum 10 KA) MCB [PWD-4.4.1.2]	Nos	1.00		
D.6	8.10.32	Single Tube Light Set : Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of 1 x 4' x 40 watt Fluorescent tube light fitting of following manufacturers consisting of powder coated 22 SWG sheet steel frame of min. length 1240mm & breadth 60mm, designed acrylic sheet cover, superior quality electronic ballast of one year guarantee, holder, necessary wiring with 2 X 0.4 sq mm PVC insulated (stranded) flexible FR wire, earth terminal etc. complete (except lamp) of following model & as per sample accepted/approved by the Engineer. Ceiling / wall mounted type Crescent cat No. CTLS- 11 x1 x 40 watt Dgn or Gloria cat No. GTF- 755 x 1 x 40 watt Dgn or Asha cat No. ACSTLS 317x 1x 40 watt Shwash cat No. SCTF- 34x 1 x 40 watt or equivalent product.	Nos.	8.00		



D.7	Based on current market analysis	Security Light: Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of 30W LED wall mounted weathertight lamp with separate switch necessary wiring with cable and switch etc. complete as per direction and sample approved by the Engineer E-I-C . Minimum one year manufacturer warrantee	Nos	4.00		
D.8	Based on current market analysis	Panel LED light: Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning 20W LED ceiling mounted lamp, square size (200mm x 200mm) with separate gang switch as per direction and sample approved by E-I-C. Minimum one year manufacturer warrantee	Nos.	23.00		
D.9	Based on current market analysis	Ceiling Fan with Regulator: Supplying, fitting and fixing 250V capacitor type ceiling fan-56" with regulator complete with concealed condensers, canopies and required length of rods, ceiling, roses, wooden round blocks, regulator, gang switches and required length of flexible wire etc as per sample and approval by E-I-C. all complete as per drawings rate shall include for necessary electrical wiring complete as per direction Engineer in- charge.	Nos.	13.00		
D.10	Wiring Repair: Conduit or surface wiring on surface with the following PVC insulated stranded cable (BYA) & green Colored PVC insulated ECC wire (BYA) through PVC Conduit complete with fixing materials and uPVC channel & other accessories as specified, Manufacturer according to the Specification & direction, sample approval by the Engineer- in-charge.					
D.10.1	8.05.05.2	1C-2x2.5sqmm (BYA) cable with 2.5sqmm (BYA) ECC wire through PVC pipe of minimum inner dia 25 mm having wall thickness of 1.7 mm	m	24.00		
D.10.2	8.05.05.1	1C-2x1.5sqmm (BYA) cable with 1.5sqmm (BYA) ECC wire through PVC pipe of minimum inner dia 20 mm having wall thickness of 1.5 mm	m	200.00		
D.10.3	8.05.05.4	1C-2x6.0 sqmm (BYA) cable with 6 sqmm (BYA) ECC wire through PVC pipe of minimum inner dia 25 mm having wall thickness of 1.7 mm	m	6.00		
D.10.4	Based on current market analysis	supply fitting & fixing 1" PVC Channel for cable wairing as per direction of E-I-C	m	100.00		
D.11	Based on current market analysis	Earthing system: Supply & installation (with effective connection) of 8'-0" Brass or Copper Rod (10mm dia) under 2'-0" from FGL outside school building, Connecting the rod with SDB's earthing bar by 6mm dia copper wire (properly soldering with the rod) through 25 mm dia pvc pipe complete with necessary accessories as per direction of Engineer in-charge.	Nos.	1.00		
GRAND TOTAL (BDT)						



2. Shelter/Scheme Name: Purbo Lamchi Ledu Companirhat GPS & Cyclone Shelter,

Location: Near of Companir Hat, Union- Ghosbag, Upazila- Kabirhat. Noakhali.

Item	LGED Code	Description	Unit	Quantity	Rate/BDT	Amount/BDT
A		Alignment with the National Cyclone Shelter Policy				
A.1	Based on market analysis	Mobilization with additional scaffolding for repairing RCC slab cornice/drop wall/outer wall etc of two storied building, cleaning site before commencing actual physical work and during contract period and demobilization after completion of the Works under contract accepted by Engineer. This work shall also covers 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 concern Engineer, where, payments are to be based on ground area determined by the concern Engineer and be proportionate to the percentage progress of work under contract as a whole in all respects and approved by the ESDO E-I-C.	Item	1.00		
A.2	Based on market analysis	Rooftop Red Marking Signal Light : Supplying, fitting and fixing signal red light to ensure the shelter is visible during disasters, especially at night and in poor weather conditions. Type: LED-based solar-powered aviation warning light. Material: Weather-resistant, UV-stabilized polycarbonate and aluminum alloy body. Light Source: High-intensity red LED with a visibility range of at least 2-3 kilometers. Solar Panel Type: Monocrystalline or polycrystalline. Power Output: Minimum 5W to 10W depending on the light's power requirement. Battery: Lithium-ion battery with at least 24 hours of backup (fully charged). Lighting Mode: Steady or flashing (adjustable); Flash rate: 20-60 flashes/min. Ingress Protection: Minimum IP65 for water and dust resistance. Light stand : 2 inch dia, 3 mm thick and 1.5 m height GI pipe with a base plate on bottom with 4 nos 10 mm dia bolt and mounting plate on top Mounting: Steel or aluminum mounting bracket compatible with the rooftop structure. Other Features: Automatic light sensor for dusk-to-dawn operation. All complete as per direction of the ESDO E-I-C.	Nos	1.00		
A.3	Based on market analysis	Mike with Siren System Installation: Supplying, fitting and fixing mike with siren system to broadcast announcements and emit a siren to alert the community during emergencies. Microphone Type: Handheld or gooseneck microphone with a noise-canceling feature. Frequency Response: 50 Hz to 15 kHz. Build: Durable, shock-resistant, and weather-resistant. Amplifier: Power Output: Minimum 50W to 100W. Voltage: Compatible with the cyclone shelter's power	Item	1.00		



		<p>system (solar backup preferred). Input Ports: Multiple inputs for microphone and auxiliary devices. Siren System Sound Range: Audible at a distance of 1-2 kilometers in open areas. Sound Patterns: Multi-tone options (wailing, steady, pulse) with adjustable volume. Power Source: Solar or AC/DC with a backup battery (minimum 6 hours of runtime). Speakers Type: Outdoor horn speakers with high weather resistance (IP65 minimum). Power Output: Minimum 20W per speaker. Material: Aluminum or ABS body with UV-resistant coating. Accessories: 1c-2x1.5 sqmm (BYA) Cable wire as per need. Professional PA System Siren: XLR connectors (3 pin or 4 pin) , and Magnetic microphone mounts. MS Cage Size: 4'x2.5' or As per need of Mike siren size. All complete as per direction of the ESDO E-I-C.</p>				
A.4	Based on market analysis	<p>Rooftop "S" Mark Painting : Supplying and painting "S" Mark on the roof top to identify the shelter as a designated emergency cyclone shelter from aerial views. Dimensions: Minimum 3 meters in length and 1.5 meters in width for clear visibility or as per drawings Color: High-contrast red paint with a white border (reflective for night visibility). Paint Type: Base Coat Anti-corrosion primer suitable for concrete surfaces. Top Coat: Reflective polyurethane or epoxy paint with UV and weather resistance. Durability: Weatherproof and resistant to rain, sun, and wind for a minimum of 5 years. Surface Preparation: Cleaning, sanding, and priming of the concrete rooftop before painting. Application: Two coats of reflective paint applied with a roller or spray for uniformity. All complete as per direction of the IOM E-I-C.</p>	Nos	1.00		
B		Civil Works				
B.1		Preliminary Works				
B.1.2	Based on market analysis	<p>Sign Board with Signage: Supplying, transporting, fitting and installation of approved best quality country-made mild steel (MS) signboard as per drawing, complete in all respects and accepted by the Engineer-in-Charge (E-I-C); size 2000 mm × 1000 mm, made of 2 mm thick MS sheet continuously welded on both sides with MS rectangular hollow box frame comprising 75 mm × 75 mm × 3 mm vertical columns and 50 mm × 50 mm × 3 mm horizontal members, including 4 nos. 12 mm dia anchor bars welded with column box and embedded minimum 450 mm into foundation; RCC foundation consisting of 400 mm × 400 mm × 400 mm footing and 250 mm × 250 mm × 600 mm column base using mix ratio 1:1.5:3 with minimum cement content ensuring fcr = 24 MPa, f_c = 17 MPa at 28 days and water-cement ratio not exceeding 0.45, conforming to ACI/BNBC/ASTM standards, using cement BDS EN-197-1-CEM-I 52.5N or ASTM C150 Type I, sand comprising 50% local (F.M. 1.2) and 50%</p>	Item	1.00		



		Sylhet/coarse sand (F.M. 2.2), and 20 mm down well-graded stone chips as per ASTM C-33; including proper shuttering, reinforcement (12 mm dia bars @ 200 mm c/c in footing, 4 nos. 12 mm dia bars in column, 10 mm dia stirrups @ 150 mm c/c), machine mixing or batching plant, vibration, curing for minimum 28 days, and all associated costs such as water, electricity and testing; including dismantling of existing concrete if required, site cleaning and debris disposal, and 125 mm thick brick flat soling using 1st class bricks at foundation base (400 mm × 400 mm); surface preparation and painting with one coat anti-corrosive paint and two coats synthetic enamel paint in dark blue (IOM official color: RGB 0/51/160, HEX #0033A0, CMYK 100/80/3/2, Pantone 286C); also including supply and installation of 2 nos. high-quality reflective stickers (hexagonal pattern) of size 2000 mm × 1000 mm with prior sample approval from E-I-C.				
B.2		Structural Works				
B.2.1	5.05.03.02	Repairing of RCC: Repairing RCC member i.e. stair slab, roof Slab, column and beam where required by Micro Cement Concrete (1: 1.5: 3) with smooth finishing except plastering after demolishing or removing partial concrete. concrete repair is to remove the cracked and degraded concrete to a depth of 20 to 30 mm behind the reinforcing bars to fully expose the rusted reinforcement and move the contaminated concrete away from the objects. The aggregate will be 20mm downgraded stone chips . Clean steel reinforcement with mechanical wire-brushing or by sandblasting. In case the reinforcing bars are corroded and have lost more than 25% of their diameter, they have to be cut, removed and replaced. The rate shall be included providing temporary support to slab/beam with props during the curing time, using rusticide chemical/anti-crosive chemical, rapid setting non shrinking chemicals, bonding agent, wiremesh if required etc to repair the existing damaged or defected surface with all materials, labour and carrying etc all complete as per direction of IOM Engineer-in-Charge.	Cu.M.	3.42		
B.2.2	Based on market analysis	Rebar: Supplying and fabrication of Ribbed or deformed bar reinforcement for all types of RCC work including straightening, removing ruts, cleaning, cutting, hooking, bending, lapping and/or welding wherever required as directed, placing in position, tying with 22 BWG black annealed binding wire (PVC coated in case of FBEC rebar) double fold, cost of binding wire and anchoring to the adjoining members wherever necessary, supplying and placing with proper cover blocks (1:1), supports, chairs, spacers, splices or laps etc. including cost of all materials, cost of labour, cost of equipment & machinery, loading and unloading, transportation, all other incidental charges and work at all leads and lifts etc. to complete the work as per design, drawing, specifications and direction of the E-I-C.	kg	2.00		
B.2.3	Based on market analysis	Plaster Repair: 12mm thick cement plaster (1:3) on RCC/masonry surface with on the areas of beam, Column, slab, lintel, cornice, parapet wall, soffit of chilacota etc where wall plaster to be rectified and finish smooth including removing existing plaster with chipping etc all complete as per instruction of IOM Engineer in- Charge . The rate shall be included for	Sq. m.	25.00		



		masonry water tank plating with NCF and water proofing additive.				
B.2.4	Based on market analysis	Water profing on the roof slab: Chipping the roof surface by claw hammer and proper cleaning by flashing water, provide 50mm (+-) patentstone layer on the existing roof, applied water profing chemical on the roof slab before ensuring proper slope by patenstone if required and approved quality material (Barger or equivalent-2 coats (horizontal and vertical direction) water Mr. Expert water barrier/Brush bond (13 Sq,M/ 20.088 kg pac) over a coat Nito bond SBR Latex plus and 2-coats Flexible Roofing Compound on top as finishing coats - color green) after preparation of the surface by removing existing rendering in alternative panels etc. After completing water profing works on roof, the roof need to be seen smooth slope surface and uniform color. All complete as per direction of the E-I-C. The rate will include cleaning, removing and washing existing top portion of slab.	Sq. m.	247.50		
B.2.5	Based on market analysis	Brick work 125mm : brick work with Kiln 1st class bricks/automatic machine made first class bricks in cement mortar (1:4) with Portland Composite cement (CEM II/AM, 42.5N) and best quality sand (minimum FM1.2) and making bond with connected walls with uniform width and depth joints, true to vertical and horizontal lines in/c necessary scaffolding, raking out joints, cleaning and soaking the bricks at least for 24 hours before use, washing of sand, curing for requisite period, etc. all complete as per direction of the E-I-C. Kiln bricks	Sq. M.	5.56		
B.2.6	5.12.3	Plastering with NCF: minimum 12mm thick cement plaster (1:4) with neat cement finishing including washing of sand and added Denso-01, finishing the edges and corners and curing for the requisite period etc. all complete as per direction of the Engineer-in-Charge. (Sand minimum FM. 1.2 to be used)	Sq. M.	6.45		
B.3		Ground Floor Development Works				
B.3.1	5.12.3	Floor Plastering with NCF: minimum 12mm thick cement plaster (1:4) with neat cement finishing including washing of sand and added Denso-01, finishing the edges and corners and curing for the requisite period etc. all complete as per direction of the Engineer-in-Charge. (Sand minimum FM. 1.2 to be used)	Sq. M.	191.93		
B.3.2	Based on current market analysis	EWEx(C/P/D): Earthwork in excavation to the lines, grades and elevation as shown in the drawing, filling baskets, carrying and disposing of all excavated materials including existing sand bags in both sides of road at a safe distance designated by the E-I-C in all types of rocky, gravelly, slushy or organic soil, levelling, dressing, etc. all complete for an initial excavation depth of 2m and an initial lead not exceeding 20m, including arranging for and supplying all necessary tools and equipment at work site, etc. complete as per direction of the E-I-C.	cum	0.43		
B.3.3	5.02.08.1	Sand Filling (FM 0.50) in the toilet foundation to improved sub-grade with sand free from dust, earth, other vegetable growth and foreign materials including supplying all materials, spreading, watering, compacting by appropriate mechanical means to obtain a minimum Soaked CBR 8% or Design CBR at minimum compaction 98% of MDD (Modified) all complete as per direction of the E-I-C.	cum	2.46		



B.3.4	Based on current market analysis	Cement concrete 75mm thick lean cement concrete (1:2:4) in floor and wherever needed with Portland Composite Cement (CEM II/AM, 42.5N), best quality coarse sand (minimum FM1.2) and 20mm down well graded picked brick chips (LAA value not exceeding 38), in/c breaking bricks into chips screening, mixing by concrete mixer machine, laying, compacting, washing of sand, curing for requisite period, etc. all complete as per direction of the E-I-C. Top surface of floor shall be non-screeding with proper finishing.	sqm	27.33		
B.3.5	5.03.05	Providing single layer polythene sheet (0.18mm thick) weighing one kilogram per 6.5 square meter in floor or any where in ground floor underneath the BFS, etc. all complete as per specifications and direction of the E-I-C.	sqm	13.25		
B.3.6	Based on current market analysis	Rebar: Supplying and fabrication of Ribbed or deformed bar reinforcement for all types of RCC work including straightening, removing ruts, cleaning, cutting, hooking, bending, lapping and/or welding wherever required as directed, placing in position, tying with 22 BWG black annealed binding wire (PVC coated in case of FBEC rebar) double fold, cost of binding wire and anchoring to the adjoining members wherever necessary, supplying and placing with proper cover blocks (1:1), supports, chairs, spacers, splices or laps etc. including cost of all materials, cost of labour, cost of equipment & machinery, loading and unloading, transportation, all other	kg	2.00		
B.4		Door, Window, Grill Repair Works				
B.4.1	Based on current market analysis	Supplying, fitting and fixing steel window/Door shutter as per existing design and frames welded with existing grill of window having requisite Nos. of vertical and horizontal standard Galvanized MS (19mmx19mmx3mm) 'Z' section for shutter with F.I. clamp 75mmx3mm duly embedded with Cement Concrete (1:2:4) and mending good the damages in/c all cost of charges for fabrication and manufacture by welding, riveting, etc. supplying all essential fittings like stopper, handle, 3 nos catch hook 300mm long adjustable iron cleat, 50mm long pin hinge in/c supplying, fitting, fixing 18 BWG M.S. sheet in position welded to steel shutter with Tee stiffener (2 nos.) made with 25mm and 19mm flat bars fitted to shutter frame in three equal part and upper part should be provided with 5mm transparent polycarbonate sheet , vertically in each shutter etc for all ground floors. The rate including removing existing window shutter and handover to SMC with repairing window seal by plastering, applying anticorrosive and 2 coats enamel paint and finishing etc all complete as per direction of the E-I-C.	sqm	8.10		
B.4.2	Based on current market analysis	Window repair: Repair of metal swing frame window shutter with polycarbonate sheets by replacing the corroded GI sections and existing polycarbonate sheets should be replaced with 18 BWG GP. sheet. Existing MS/GI sections are 3mm thick and 19mm wide, shutter frame in three equal part and upper part should be provided with 5mm transparent polycarbonate sheet , vertically in each shutter, fabricating, welding, installation, cost of electricity, workshop charge, carriage, fixing with MS clamps or steel royal bolt in walls/RCC member. The rate including window seal by	sqm	13.50		



		plastering, applying 2 coats anticorrosive and 2 coats enamel paint (Berger) and finishing etc all complete as per direction of the E-I-C. (Total wt. per m2 should be 11.00 kg. For each kg excess or less add or deduct, as the case may be, @Tk. 140.00 per kg)				
B.4.3	Based on current market analysis	Minor Wooden door repair (2.1mX1m): Repairing of existing (100mmx38mm) lock rail, (125mmx38mm) and bottom rail (225mmx38mm), paneling 25mm thick one side raised provided with best quality 6 nos. 100mm iron hinges, 2 nos. best quality 12mm dia 300mm and 225mm long iron tower and socket bolts 2 nos. heavy type nickel plated handles, hinge cleats, buffer blocks and finished with sand papering for all floors etc. all complete as per direction of the E-I-C. (Single/Double leaf. All sizes of wood are finished). Jack wood. The rate includes a Heavy Security 60mm Pad Lock (HMBR) for each door.	nos	3.00		
B.4.4	Based on current market analysis	Hand rail repair at Ground floor: Supply and refixing of existing GI hand rails (Top chord 60mm dia GI pipe of 2.9mm wall thick) including a flat bar (25mm*5mm) at the bottom with vertical 20 mm dia GI pipes for stair/parapet with supply of all materials and accessories and replace the damaged/lost portions in hand rails with necessary removing, welding, fixing with the objects, carrying, loading, unloading, repairing hole, applying zinc-oxide etc all complete as required	Sq.M.	15.00		
B.4.5	Based on current market analysis	Supply, fabricate and fix 3 nos railing gates -(2.78m x .95m) to ground floor hand rails with Top chord - 2" diameter 3mm thick GI pipe, Bottom chord - 1" diameter 3mm thick Gi pipe & internal verticals - 1/2" diameter 2mm thick Gi pipes at 6" centres. Rate shall include for fixing to wall and columns, apply of 2 coats of anticorrosive and 2 coats of enamel paints, floor finishing, cutting railing and making opening for ramp etc all complete.	sqm	1.82		
B.4.6	5.18.03	New collapsible gate Manufacturing, supplying, fitting and fixing M.S. collapsible gate of any design and shape made of 25 mm x 25 mm x 3 mm M.S. angle placed @ 112 mm c/c vertically and connecting the same with each other by 25 mm x 3 mm M.S flat bar scissors 525 mm, 600 mm long provided in 3 rows including cutting the different M.S. members to required sizes, fabricating, welding, riveting with required size rivets, providing required size wheels, pulling handles on both sides, suitable locking arrangement, electrodes, grease and finally placing the same in position in between 2 (two) Nos. 50 mm x 50 mm x 6 mm M.S. tee rail made by welding 2 nos. 50 mm x 6 mm M.S. flat bar fitted and fixed at top and bottom with R.C.C. lintel/ roof slab, floors and side wall with required nos. 150 mm to 225 mm long 38 mm x 6 mm M.S.flat bar clamps one end welded with the gate member and the other end bifurcated and embedded in C.C. at the respective point including cutting holes and mending good the damages by pouring concrete (1:2:4) into the holes and finishing, etc. complete, painting 2 (two) coats with approved best quality synthetic enamel paint over a coat of anticorrosive painting, both end carriage, including greasing, electrodes, curing etc. complete as per drawing and design and accepted by the engineer in-charge	sqm	3.34		



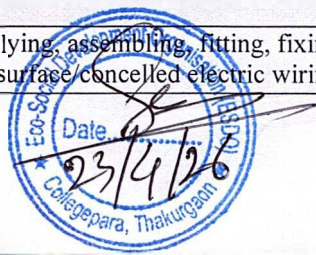
B.4.7	Based on current market analysis	Supplying, fitting and fixing MS stair railing of standard height with 2 mm thick 62 mm x 25 mm MS Box for handrail fixing with 2 nos of consecutive MS vertical post of 2 mm thick 50mm x 18 mm MS Box (4 nos vertical support in each flight, each vertical support containing 2 nos of consecutive SS vertical box of 125 mm space) fixing with tread by 75 mm long royal bolt, welding 1.5 mm thick 38 mm x 12 mm 5 nos horizontal MS Box between vertical support as per drawing, design including carrying, polishing, fabricating, welding etc. all complete and accepted by the Engineer-in-charge.	sqm	13.44		
B.4.8	5.10.03.01	Supplying, fitting and fixing window grills of any design made of 20mm x 3 mm mild steel section @ 100 mm c/c with outer frame of 25mm x 6 mm F.I. bar including fabrication, welding, cost of electricity workshop charges, carriage, cutting grooves, mending good the damages, tools and plants, finished with anti-corrosive painting (Red-Oxide) etc complete for all floors and accepted by the Engineer-in-charge. (Total weight per sqm should be approx 10.00 kg. and add or deduct @ Tk. 100.00 for each kg/sqm excess or less respectively)	sqm	13.17		
B.5		Painting Works				
B.5.1	5.16.03.01	Plastic emulsion paint on internal wall: applying plastic paint (damp guard) on interior surface ceiling or slab/beam/column/wall with best quality and approved colour in a seal container from authorized manufacturer. Applying each coat and successive coat is to be applied as per manufacturer special procedure, to wall and ceiling in two coats over a coat of priming coat of water sealer and ready mixed putty of approved brand. It applied on sand papered and cleaned surface and after drying applied sealer coat, 2 coats of ready mixed wall putty of approved brand, each coat dried and smoothed by sand papering. Applying plastic emulsion paint one vertical and one horizontal coat for each coat and successive coat is to be applied after drying up of previous coat by brush/roller/spray in/c cleaning the plinth, floors, doors, windows, portions and ventilators by washing, rubbing, as necessary and sand papering the surface and necessary scaffolding, etc. curing for the requisite period etc. all complete for all floors i/c cost of all materials as per direction of the E-I-C. 3 Coat. The rate is included rubbing, removing damp/algae/ existing paint, minor wall/RCC surface repairing if required and preparing surface with proper washing/cleaning before applying prime coat.	Sq. M.	817.68		
B.5.2	5.16.02	Weather coat exterior paint: applying exterior paint on outside wall surface as per manufacturer instruction specific two weather coats over a premier coat of approved quality and colour delivered from authorized local agent of the manufacturer in a sealed container. Applying one vertical and one horizontal coat for each coat and successive coat is to be applied after drying up of previous coat by brush/roller/spray in/c cleaning, washing, rubbing, as necessary and sand papering the surface and necessary scaffolding, etc. all complete for all floors i/c cost of all materials as per direction of the E-I-C. The rate is included rubbing, removing damp/algae/ existing paint, minor wall/RCC surface repairing if required and preparing surface with proper washing/cleaning before applying prime coat.	Sq. M.	808.79		



B.5.4	5.16.04.1	Enamel paint wooden mamber: Prepare the surface by removing dust apply two coats of wood primer and two coats of enamel paint on wooden frame and shutter of window. Rate shall include for minor repairs, wood putting, and necessary brushes, machine, masking tape, sand papers require for surface preparation and scaffolding etc all complete as per Direction of E-I-C .	Sq. m.	29.82		
B.5.5	5.16.04.2	Enamel paint for window grill: Prepare the surface by removing rust and apply two coats of anticorrosive paint and two coats of enamel paint on steel frame and shutter of window grill. Rate shall include for removing existing paint, rust, dust with minor repairs and necessary brushes, mechanical wire brush, masking tape, sand papers putty require for surface preparation and scaffolding etc all complete as per Direction of E-I-C .	Sq. m.	185.66		
B.6		Painting Works				
B.6.1	Based on current market analysis	Class Room Airt: In the school classrooms where various pictures and information are drawn, the pictures should be saved (videos, photos) and the painting work should be completed. After completing the painting work, the pictures should be re-drawn. all complete as per Direction of E-I-C .	Item	151.80		
C		Water Supply and Sanitation Facility works				
C.1	5.15.06.4	Supplying, fitting and fixing Wall tiles less than, equal or equivalent to 250 mm x 750 mm in sizes approved quality glazed ceramic wall tiles (RAK) on Toilets wall up to 1500mm high with 20 mm thick 1:3 cement sand (F.M.1.2) mortar base and raking out the joints with approved tile grout. Rate shall include for cutting laying and hire charge of machine and finishing with care etc. .	sqm	12.50		
C.2	5.15.01.1	Supplying and fixing approved quality 300mmx300mm Non-skid porcelain floor tiles (RAK) on toilet floor with 1:3 cement sand (F.M.1.8) mortar base and raking out the joints with approved colour tile grout including cutting and laying the tiles in proper way and finishing with care.	sqm	1.00		
C.3	7.29.3	Supplying, fitting and fixing of best quality country made 12 mm bib cock made from copper or copper alloy, chromium plated. The faucet conforms BDS EN 200:2009. The faucet tap shall be free from any leakage, permeation and other abnormalities. The water hammer value shall be 1.47 Mpa or under. The faucet after it has been operated 100000 times it shall be free from a seat-leakage and shall satisfy the reverse flow preventing performance. The inside and outside surfaces of the faucet shall be smooth and be free from blowholes, fissures, remarkable flows or injurious defects. The chromium plating on the faucet shall be of class 2 grade 1. The final coating should be done with chromium of minimum 0.1 micron. The faucet shall be made leak proof and fixing in position with selected tape etc. , all complete approved and accepted by the Engineer- in- charge. 12 mm CP open Bib Cock (PWD BW 26.29.3) Supply and fix 1/2" diameter brass or CP bib tap liver type	Nos.	5.00		



C.4	Based on current market analysis	Mirror (400 × 600 mm, bevelled edge) Supplying approved quality mirror of size 400 mm × 600 mm with bevelled edges, made of best quality float glass of uniform thickness with distortion-free reflection, silvered on the back with protective coating. The mirror shall be fitted and fixed in position with approved quality clips, screws, wall plugs or suitable adhesive backing, including all necessary fittings and accessories, complete in all respects as per design and direction of the Engineer-in-charge. Supply and fix 400x600mm bevelled edge mirror	Nos.	1.00		
C.5	Based on current market analysis	Supplying different inside dia best quality uPVC pressure pipe for water supply having specific gravity 1.35 - 1.45, and other physical, chemical, thermal, fire resistivity properties etc. as per BSTI approved manufacturer standards or ASTM, BS/ISO/IS standards fitted and fixed in position with sockets, bends, with all accessories such as Round grating/domed roof grating, bends, sockets etc. approved and accepted by the Engineer-in-charge. 25 mm dia wall thickness 2.2 mm - 3.4 mm (PWD BW 26.45.3)	M	10.00		
C.6	Based on current market analysis	GI Fittings (Socket, Elbow, Bend, Nipple, Plug, Tee, etc.) Supplying best quality galvanized iron (GI) pipe fittings including sockets, elbows, bends, nipples, plugs, tees and other necessary accessories of approved manufacturer, conforming to BSTI approved standards or ASTM/BS/ISO standards, complete in all respects. All fittings shall be properly threaded, fitted, and fixed in position with necessary jointing materials, sealing, and accessories as required, including cutting, threading, and installation work, as per design, drawing, and direction of the Engineer-in-charge, complete. 25 mm GI Socket, Elbow, Bend, Nipple, Plug, Tee & etc all complete as per direction of engineer	L.M	1.00		
C.7	Based on current market analysis	Stainless Steel (SS) Soap Case (1.2 mm thick) Supplying, fitting, and fixing approved quality stainless steel soap case made of minimum 1.2 mm thick SS sheet, corrosion-resistant and durable, of approved design and finish, including all necessary fittings, screws, brackets, and accessories. The item shall be properly installed in position as per drawing and direction of the Engineer-in-charge, complete in all respects. 1.2mm thick SS Soap case including fittings, fixing etc all complete	Nos.	2.00		
C.8	Page no 518 item number 631.	Supplying, fitting and fixing of 110 mm inside diameter & wall thickness 2.7 mm - 3.4 mm best quality PVC/HDPE rain water down pipe fitting, fixed in position with head and shoes, bends, min.20 mm width F.I. Bar clamp and nails, and including all accessories such as round grating/domed roof grating, bands, sockets approved and accepted by the Engineer-in-charge.	L.M	45.00		
D		Electrical Works with Fittings				
D.1	Based on current	MDB/SDB: Supplying, assembling, fitting, fixing & installation (with surface/cancelled electric wiring for	Nos.	1.00		



	market analysis	effective connection) of Main/Sub distribution board (Heavy Plastic/Metal enclosure) with necessary MCBs/DP/TP/SP, RCCB, Isolator, Basbar etc. as per sample and approval by E-I-C. Rate shall include for necessary electrical wiring from electric meter to the DB/SDB. Minimum one year warrantee				
D.2	8.06.2.4	4 Gang Switch: Supplying, fitting and fixing 20mm thick switch board for fan regulators, lighting switches two pin and at the three pin socket outlets the switch board to be made of teak wood and varnished on all sides etc. all complete as per drawing, design and directions of the E-I-C.	Nos	10.00		
D.3	8.06.2.05	Power Socket: Providing & fixing 250 volts. 5 / 6 amps (minimum) concealed type following switch / switch socket Manufactured / Assembled and tested in accordance with IEC / VDE / NEMA / BS / JIS along with relevant BDS IEC standards mounted on required size 18 SWG galvanized plain sheet / PVC board (Self-extinguishing 650 Degree Centigrade) of 76.2 mm (3") depth. All electrical contacts shall be of brass / copper. MADE IN HONGKONG / MALAYSIA / SINGAPORE / S KOREA / THAILAND [PWD- 4.12.2] One gang switch & one 5/10 Amps. 2/3-pin socket combined.	Nos	10.00		
D.4	8.04.1.1	Circuit Breaker (SPMCB) Providing & fixing on a prepared board 250 volt grade following single pole miniature circuit breaker (SPMCBs) having minimum breaking capacity 6-KA / 10 KA with thermal over-current and instantaneous electromagnetic short circuit release provision as per BDS IEC and IEC / VDE / NEMA / BS / JIS standard. SPMCBs accepted / approved by the Engineer-in-charge. [PWD-4.4.1] 10 – 40 Amps (minimum 6 KA) MCB [PWD-4.4.1.1]	Nos	10.00		
D.5	8.04.1.2	Circuit Breaker (SPMCB) Providing & fixing on a prepared board 250 volt grade following single pole miniature circuit breaker (SPMCBs) having minimum breaking capacity 6-KA / 10 KA with thermal over-current and instantaneous electromagnetic short circuit release provision as per BDS IEC and IEC / VDE / NEMA / BS / JIS standard. SPMCBs accepted / approved by the Engineer-in-charge. [PWD-4.4.1] 60/63 Amps (minimum 10 KA) MCB [PWD-4.4.1.2]	Nos	1.00		
D.6	8.10.32	Single Tube Light Set : Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of 1 x 4' x 40 watt Fluorescent tube light fitting of following manufacturers consisting of powder coated 22 SWG sheet steel frame of min. length 1240mm & breadth 60mm, designed acrylic sheet cover, superior quality electronic ballast of one year guarantee, holder, necessary wiring with 2 X 0.4 sq mm PVC insulated (stranded) flexible FR wire, earth terminal etc. complete (except lamp) of following model & as per sample accepted/approved by the Engineer. Ceiling / wall mounted type Crescent cat No. CTLS- 11 x 1 x 40 watt Dgn or Gloria cat No. GTF- 755 x 1 x 40 watt Dgn or Gloria cat No. ACSTLS	Nos.	8.00		



		317x 1x 40 watt Shwash cat No. SCTF- 34x 1 x 40 watt or equivalent product.				
D.7	Based on current market analysis	Security Light: Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of 30W LED wall mounted weathertight lamp with separate switch necessary wiring with cable and switch etc. complete as per direction and sample approved by the Engineer E-I-C . Minimum one year manufacturer warrantee	Nos	4.00		
D.8	Based on current market analysis	Panel LED light: Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning 20W LED ceiling mounted lamp, square size (200mm x 200mm) with separate gang switch as per direction and sample approved by E-I-C. Minimum one year manufacturer warrantee	Nos.	15.00		
D.9	Based on current market analysis	Ceiling Fan with Regulator: Supplying, fitting and fixing 250V capacitor type ceiling fan-56" with regulator complete with concealed condensers, canopies and required length of rods, ceiling, roses, wooden round blocks, regulator, gang switches and required length of flexible wire etc as per sample and approval by E-I-C. all complete as per drawings rate shall include for necessary electrical wiring complete as per direction Engineer in- charge.	Nos.	5.00		
D.10	Wiring Repair: Conduit or surface wiring on surface with the following PVC insulated stranded cable (BYA) & green Colored PVC insulated ECC wire (BYA) through PVC Conduit complete with fixing materials and uPVC channel & other accessories as specified, Manufacturer according to the Specification & direction, sample approval by the Engineer- in-charge.					-
D.10.1	8.05.05.2	1C-2x2.5sqmm (BYA) cable with 2.5sqmm (BYA) ECC wire through PVC pipe of minimum inner dia 25 mm having wall thickness of 1.7 mm	m	24.00		
D.10.2	8.05.05.1	1C-2x1.5sqmm (BYA) cable with 1.5sqmm (BYA) ECC wire through PVC pipe of minimum inner dia 20 mm having wall thickness of 1.5 mm	m	200.00		
D.10.3	8.05.05.4	1C-2x6.0 sqmm (BYA) cable with 6 sqmm (BYA) ECC wire through PVC pipe of minimum inner dia 25 mm having wall thickness of 1.7 mm	m	6.00		
D.10.4	Based on current market analysis	supply fitting & fixing 1" PVC Channel for cable wairing as per direction of E-I-C	m	100.00		
D.11	Based on current market analysis	Earthing system: Supply & installation (with effective connection) of 8'-0" Brass or Copper Rod (10mm dia) under 2'-0" from FGL outside school building, Connecting the rod with SDB's earthing bar by 6mm dia copper wire (properly soldering with the rod) through 25 mm dia pvc pipe complete with necessary accessories as per direction of Engineer in-charge.	Nos.	1.00		
G.13		Providing Single Line Diagram of the installed solar system in A3 size laminated paper	Nos	1.00		
GRAND TOTAL (BDT)						



3. Shelter/Scheme Name: Bamni GPS & Cyclone Shelter,

Location: Near of Bamni Bazar, Union- Rampur, Upazila- Companiganj. Noakhali.

Item	LGED Code	Description	Unit	Quantity	Rate/BDT	Amount/BDT
A		Alignment with the National Cyclone Shelter Policy				
A.1	Based on market analysis	<p>Mobilization with additional scaffolding for repairing RCC slab cornice/drop wall/outer wall etc of two storied building, cleaning site before commencing actual physical work and during contract period and demobilization after completion of the Works under contract accepted by Engineer. This work shall also covers 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 concern Engineer, where, payments are to be based on ground area determined by the concern Engineer and be proportionate to the percentage progress of work under contract as a whole in all respects and approved by the ESDO E-I-C.</p>	Item	1.00		
A.2	Based on market analysis	<p>Rooftop Red Marking Signal Light : Supplying, fitting and fixing signal red light to ensure the shelter is visible during disasters, especially at night and in poor weather conditions. Type: LED-based solar-powered aviation warning light. Material: Weather-resistant, UV-stabilized polycarbonate and aluminum alloy body. Light Source: High-intensity red LED with a visibility range of at least 2-3 kilometers. Solar Panel Type: Monocrystalline or polycrystalline. Power Output: Minimum 5W to 10W depending on the light's power requirement. Battery: Lithium-ion battery with at least 24 hours of backup (fully charged). Lighting Mode: Steady or flashing (adjustable); Flash rate: 20-60 flashes/min. Ingress Protection: Minimum IP65 for water and dust resistance. Light stand : 2 inch dia, 3 mm thick and 1.5 m height GI pipe with a base plate on bottom with 4 nos 10 mm dia bolt and mounting plate on top Mounting: Steel or aluminum mounting bracket compatible with the rooftop structure. Other Features: Automatic light sensor for dusk-to-dawn operation. All complete as per direction of the ESDO E-I-C.</p>	Nos	1.00		
A.3	Based on market analysis	<p>Mike with Siren System Installation: Supplying, fitting and fixing mike with siren system to broadcast announcements and emit a siren to alert the community during emergencies. Microphone Type: Handheld or gooseneck microphone with a noise-canceling feature. Frequency Response: 50 Hz to 15 kHz. Build: Durable, shock-resistant, and weather-resistant. Amplifier: Power Output: Minimum 50W to 100W.</p>	Item	1.00		



		<p>Voltage: Compatible with the cyclone shelter's power system (solar backup preferred).</p> <p>Input Ports: Multiple inputs for microphone and auxiliary devices.</p> <p>Siren System Sound Range: Audible at a distance of 1-2 kilometers in open areas.</p> <p>Sound Patterns: Multi-tone options (wailing, steady, pulse) with adjustable volume.</p> <p>Power Source: Solar or AC/DC with a backup battery (minimum 6 hours of runtime).</p> <p>Speakers Type: Outdoor horn speakers with high weather resistance (IP65 minimum).</p> <p>Power Output: Minimum 20W per speaker.</p> <p>Material: Aluminum or ABS body with UV-resistant coating.</p> <p>Accessories: 1c-2x1.5 sqmm (BYA) Cable wire as per need.</p> <p>Professional PA System Siren: XLR connectors (3 pin or 4 pin) , and Magnetic microphone mounts.</p> <p>MS Cage Size: 4'x2.5' or As per need of Mike siren size.</p> <p>All complete as per direction of the ESDO E-I-C.</p>			
A.4	Based on market analysis	<p>Rooftop "S" Mark Painting : Supplying and painting "S" Mark on the roof top to identify the shelter as a designated emergency cyclone shelter from aerial views.</p> <p>Dimensions: Minimum 3 meters in length and 1.5 meters in width for clear visibility or as per drawings</p> <p>Color: High-contrast red paint with a white border (reflective for night visibility).</p> <p>Paint Type: Base Coat Anti-corrosion primer suitable for concrete surfaces.</p> <p>Top Coat: Reflective polyurethane or epoxy paint with UV and weather resistance.</p> <p>Durability: Weatherproof and resistant to rain, sun, and wind for a minimum of 5 years.</p> <p>Surface Preparation: Cleaning, sanding, and priming of the concrete rooftop before painting.</p> <p>Application: Two coats of reflective paint applied with a roller or spray for uniformity.</p> <p>All complete as per direction of the IOM E-I-C.</p>	Nos	1.00	
B		Civil Works			
B.1		Preliminary Works			
B.1.2	Based on market analysis	<p>Sign Board with Signage: Supplying, transporting, fitting and installation of approved best quality country-made mild steel (MS) signboard as per drawing, complete in all respects and accepted by the Engineer-in-Charge (E-I-C); size 2000 mm × 1000 mm, made of 2 mm thick MS sheet continuously welded on both sides with MS rectangular hollow box frame comprising 75 mm × 75 mm × 3 mm vertical columns and 50 mm × 50 mm × 3 mm horizontal members, including 4 nos. 12 mm dia anchor bars welded with column box and embedded minimum 450 mm into foundation; RCC foundation consisting of 400 mm × 400 mm × 400 mm footing and 250 mm × 250 mm × 600 mm column base using mix ratio 1:1.5:3 with minimum cement content ensuring f_{cr} = 24 MPa, f_c = 17 MPa at 28 days and water-cement ratio not exceeding 0.45, conforming to ACI/BNBC/ASTM standards, using cement BDS EN-197-1-CEM-I 52.5N or ASTM C150 Type I, sand comprising 50% local</p>	Item	1.00	



		(F.M. 1.2) and 50% Sylhet/coarse sand (F.M. 2.2), and 20 mm down well-graded stone chips as per ASTM C-33; including proper shuttering, reinforcement (12 mm dia bars @ 200 mm c/c in footing, 4 nos. 12 mm dia bars in column, 10 mm dia stirrups @ 150 mm c/c), machine mixing or batching plant, vibration, curing for minimum 28 days, and all associated costs such as water, electricity and testing; including dismantling of existing concrete if required, site cleaning and debris disposal, and 125 mm thick brick flat soling using 1st class bricks at foundation base (400 mm × 400 mm); surface preparation and painting with one coat anti-corrosive paint and two coats synthetic enamel paint in dark blue (IOM official color: RGB 0/51/160, HEX #0033A0, CMYK 100/80/3/2, Pantone 286C); also including supply and installation of 2 nos. high-quality reflective stickers (hexagonal pattern) of size 2000 mm × 1000 mm with prior sample approval from E-I-C.				
B.2		Structural Works				
B.2.1	5.05.03.02	Repairing of RCC: Repairing RCC member i.e. stair slab, roof Slab, column and beam where required by Micro Cement Concrete (1: 1.5: 3) with smooth finishing except plastering after demolishing or removing partial concrete. concrete repair is to remove the cracked and degraded concrete to a depth of 20 to 30 mm behind the reinforcing bars to fully expose the rusted reinforcement and move the contaminated concrete away from the objects. The aggregate will be 20mm downgraded stone chips . Clean steel reinforcement with mechanical wire-brushing or by sandblasting. In case the reinforcing bars are corroded and have lost more than 25% of their diameter, they have to be cut, removed and replaced. The rate shall be included providing temporary support to slab/beam with props during the curing time, using rusticide chemical/anti-crosvive chemical, rapid setting non shrinking chemicals, bonding agent, wiremesh if required etc to repair the existing damaged or defected surface with all materials, labour and carrying etc all complete as per direction of IOM Engineer-in-Charge.	Cu.M.	2.66		
B.2.2	Based on market analysis	Rebar: Supplying and fabrication of Ribbed or deformed bar reinforcement for all types of RCC work including straightening, removing ruts, cleaning, cutting, hooking, bending, lapping and/or welding wherever required as directed, placing in position, tying with 22 BWG black annealed binding wire (PVC coated in case of FBEC rebar) double fold, cost of binding wire and anchoring to the adjoining members wherever necessary, supplying and placing with proper cover blocks (1:1), supports, chairs, spacers, splices or laps etc. including cost of all materials, cost of labour, cost of equipment & machinery, loading and unloading, transportation, all other incidental charges and work at all leads and lifts etc. to complete the work as per design, drawing, specifications and direction of the E-I-C.	kg	2.00		
B.2.3	Based on market analysis	Plaster Repair: 12mm thick cement plaster (1:3) on RCC/masonry surface with on the areas of beam, Column, slab, lintel, cornice, parapet wall, sofit of chilacota etc where wall plaster to be rectified	Sq. m.	25.00		



		finish smooth including removing existing plaster with chipping etc all complete as per instruction of IOM Engineer in- Charge . The rate shall be included for masonry water tank plating with NCF and water proofing additive.			
B.2.4	Based on market analysis	Water profing on the roof slab: Chipping the roof surface by claw hammer and proper cleaning by flashing water, provide 50mm (+-) patentstone layer on the existing roof, applied water profing chemical on the roof slab before ensuring proper slope by patenstone if required and approved quality material (Barger or equivalent-2 coats (horizontal and vertical direction) water Mr. Expert water barrier/Brush bond (13 Sq,M/ 20.088 kg pac) over a coat Nito bond SBR Latex plus and 2-coats Flexible Roofing Compound on top as finishing coats - color green) after preparation of the surface by removing existing rendering in alternative panels etc. After completing water profing works on roof, the roof need to be seen smooth slope surface and uniform color. All complete as per direction of the E-I-C. The rate will include cleaning, removing and washing existing top portion of slab.	Sq. m.	247.50	
B.2.5	Based on market analysis	Brick work 125mm : brick work with Kiln 1st class bricks/automatic machine made first class bricks in cement mortar (1:4) with Portland Composite cement (CEM II/AM, 42.5N) and best quality sand (minimum FM1.2) and making bond with connected walls with uniform width and depth joints, true to vertical and horizontal lines in/c necessary scaffolding, raking out joints, cleaning and soaking the bricks at least for 24 hours before use, washing of sand, curing for requisite period, etc. all complete as per direction of the E-I-C. Kiln bricks	Sq. M.	4.02	
B.2.6	5.12.3	Plastering with NCF: minimum 12mm thick cement plaster (1:4) with neat cement finishing including washing of sand and added Denso-01, finishing the edges and corners and curing for the requisite period etc. all complete as per direction of the Engineer-in-Charge. (Sand minimum FM. 1.2 to be used)	Sq. M.	6.45	
B.3		Ground Floor Development Works			
B.3.1	5.12.3	Floor Plastering with NCF: minimum 12mm thick cement plaster (1:4) with neat cement finishing including washing of sand and added Denso-01, finishing the edges and corners and curing for the requisite period etc. all complete as per direction of the Engineer-in-Charge. (Sand minimum FM. 1.2 to be used)	Sq. M.	196.188	
B.3.2	Based on current market analysis	EWEx(C/P/D): Earthwork in excavation to the lines, grades and elevation as shown in the drawing, filling baskets, carrying and disposing of all excavated materials including existing sand bags in both sides of road at a safe distance designated by the E-I-C in all types of rocky, gravelly, slushy or organic soil, levelling, dressing, etc. all complete for an initial excavation depth of 2m and an initial lead not exceeding 20m, including arranging for and supplying all necessary tools and equipment at work site, etc. complete as per direction of the E-I-C.	cum	0.43	
B.3.3	5.02.08.1	Sand Filling (FM 0.50) in the toilet foundation to improved sub-grade with sand free from weeds and other vegetable growth and foreign materials	cum	1.96	



		including supplying all materials, spreading, watering, compacting by appropriate mechanical means to obtain a minimum Soaked CBR 8% or Design CBR at minimum compaction 98% of MDD (Modified), etc. all complete as per direction of the E-I-C.				
B.3.4	Based on current market analysis	Cement concrete 75mm thick lean cement concrete (1:2:4) in floor and wherever needed with Portland Composite Cement (CEM II/AM, 42.5N), best quality coarse sand (minimum FM1.2) and 20mm down well graded picked brick chips (LAA value not exceeding 38), in/c breaking bricks into chips screening, mixing by concrete mixer machine, laying, compacting, washing of sand, curing for requisite period, etc. all complete as per direction of the E-I-C. Top surface of floor shall be non-screeding with proper finishing.	sqm	56.41		
B.3.5	5.03.05	Providing single layer polythene sheet (0.18mm thick) weighing one kilogram per 6.5 square meter in floor or any where in ground floor underneath the BFS, etc. all complete as per specifications and direction of the E-I-C.	sqm	13.25		
B.3.6	Based on current market analysis	Rebar: Supplying and fabrication of Ribbed or deformed bar reinforcement for all types of RCC work including straightening, removing ruts, cleaning, cutting, hooking, bending, lapping and/or welding wherever required as directed, placing in position, tying with 22 BWG black annealed binding wire (PVC coated in case of FBEC rebar) double fold, cost of binding wire and anchoring to the adjoining members wherever necessary, supplying and placing with proper cover blocks (1:1), supports, chairs, spacers, splices or laps etc. including cost of all materials, cost of labour, cost of equipment & machinery, loading and unloading, transportation, all other	kg	2.00		
B.4		Door, Window, Grill Repair Works				
B.4.1	Based on current market analysis	Supplying, fitting and fixing steel window/Door shutter as per existing design and frames welded with existing grill of window having requisite Nos. of vertical and horizontal standard Galvanized MS (19mmx19mmx3mm) 'Z' section for shutter with F.I. clamp 75mmx3mm duly embedded with Cement Concrete (1:2:4:) and mending good the damages in/c all cost of charges for fabrication and manufacture by welding, riveting, etc. supplying all essential fittings like stopper, handle, 3 nos catch hook 300mm long adjustable iron cleat, 50mm long pin hinge in/c supplying, fitting, fixing 18 BWG M.S. sheet in position welded to steel shutter with Tee stiffener (2 nos.) made with 25mm and 19mm flat bars fitted to shutter frame in three equal part and upper part should be provided with 5mm transparent polycarbonate sheet , vertically in each shutter etc for all ground floors. The rate including removing existing window shutter and handover to SMC with repairing window seal by plastering, applying anticorrosive and 2 coats enamel paint and finishing etc all complete as per direction of the E-I-C.	sqm	5.40		
B.4.2	Based on current market analysis	Window repair: Repair of metal swing frame window shutter with polycarbonate sheets by replacing the corroded GI sections and existing polycarbonate sheets should be replaced with 18	sqm	13.50		



		BWG GP. sheet. Existing MS/GI sections are 3mm thick and 19mm wide, shutter frame in three equal part and upper part should be provided with 5mm transparent polycarbonate sheet , vertically in each shutter, fabricating, welding, installation, cost of electricity, workshop charge, carriage, fixing with MS clamps or steel royal bolt in walls/RCC member. The rate including window seal by plastering, applying 2 coats anticorrosive and 2 coats enamel paint (Berger) and finishing etc all complete as per direction of the E-I-C. (Total wt. per m2 should be 11.00 kg. For each kg excess or less add or deduct, as the case may be, @Tk. 140.00 per kg)				
B.4.3	Based on current market analysis	Minor Wooden door repair (2.1mX1m): Repairing of existing (100mmx38mm) lock rail, (125mmx38mm) and bottom rail (225mmx38mm), paneling 25mm thick one side raised provided with best quality 6 nos. 100mm iron hinges, 2 nos. best quality 12mm dia 300mm and 225mm long iron tower and socket bolts 2 nos. heavy type nickel plated handles, hinge cleats, buffer blocks and finished with sand papering for all floors etc. all complete as per direction of the E-I-C. (Single/Double leaf. All sizes of wood are finished). Jack wood. The rate includes a Heavy Security 60mm Pad Lock (HMBR) for each door.	nos	3.00		
B.4.4	Based on current market analysis	Hand rail repair at Ground floor: Supply and refixing of existing GI hand rails (Top chord 60mm dia GI pipe of 2.9mm wall thick) including a flat bar (25mm*5mm) at the bottom with vertical 20 mm dia GI pipes for stair/parapet with supply of all materials and accessories and replace the damaged/lost portions in hand rails with necessary removing, welding, fixing with the objects, carrying, loading, unloading, repairing hole, applying zinc-oxide etc all complete as required	Sq.M.	27.35		
B.4.5	Based on current market analysis	Manufacturing, supplying, fitting and fixing M.S. collapsible gate of any design and shape made of 25 mm x 25 mm x 3 mm M.S. angle placed @ 112 mm c/c vertically and connecting the same with each other by 25 mm x 3 mm M.S flat bar scissors 525 mm, 600 mm long provided in 3 rows including cutting the different M.S. members to required sizes, fabricating, welding, riveting with required size rivets, providing required size wheels, pulling handles on both sides, suitable locking arrangement, electrodes, grease and finally placing the same in position in between 2 (two) Nos. 50 mm x 50 mm x 6 mm M.S. tee rail made by welding 2 nos. 50 mm x 6 mm M.S. flat bar fitted and fixed at top and bottom with R.C.C. lintel/ roof slab, floors and side wall with required nos. 150 mm to 225 mm long 38 mm x 6 mm M.S. flat bar clamps one end welded with the gate member and the other end bifurcated and embedded in C.C. at the respective point including cutting holes and mending good the damages by pouring concrete (1:2:4) into the holes and finishing, etc. complete, painting 2 (two) coats with approved best quality synthetic enamel paint over a coat of anticorrosive painting, both end carriage, including greasing, electrodes, curing etc. complete as per drawing and design and accepted by the Engineer-in-charge.	sqm	3.30		
B.4.6	Based on	Supplying, fitting and fixing MS stair railing of	sqm			



	current market analysis	standard height with 2 mm thick 62 mm x 25 mm MS Box for handrail fixing with 2 nos of consecutive MS vertical post of 2 mm thick 50mm x 18 mm MS Box (4 nos vertical support in each flight, each vertical support containing 2 nos of consecutive SS vertical box of 125 mm space) fixing with tread by 75 mm long royal bolt, welding 1.5 mm thick 38 mm x 12 mm 5 nos horizontal MS Box between vertical support as per drawing, design including carrying, polishing, fabricating, welding etc.all complete and accepted by the Engineer-incharge.		7.90		
B.5		Painting Works				
B.5.1	5.16.03.01	Plastic emulsion paint on internal wall: applying plastic paint (damp guard) on interior surface ceiling or slab/beam/column/wall with best quality and approved colour in a seal container from authorized manufacturer. Applying each coat and successive coat is to be applied as per manufacturer special procedure, to wall and ceiling in two coats over a coat of priming coat of water sealer and ready mixed putty of approved brand. It applied on sand papered and cleaned surface and after drying applied sealer coat, 2 coats of ready mixed wall putty of approved brand, each coat dried and smoothed by sand papering. Applying plastic emulsion paint one vertical and one horizontal coat for each coat and successive coat is to be applied after drying up of previous coat by brush/roller/spray in/c cleaning the plinth, floors, doors, windows, portions and ventilators by washing, rubbing, as necessary and sand papering the surface and necessary scaffolding, etc. curing for the requisite period etc. all complete for all floors i/c cost of all materials as per direction of the E-I-C. 3 Coat.The rate is included rubbing, removing damp/algae/ existing paint, minor wall/RCC surface repairing if required and preparing surface with proper washing/cleaning before applying prime coat.	Sq. M.	825.15		
B.5.2	5.16.02	Weather coat exterior paint: applying exteriorpaint on outside wall surface as per manufacturer instruction specific two weather coats over a premier coat of approved quality and colour delivered from authorized local agent of the manufacturer in a sealed container. Applying one vertical and one horizontal coat for each coat and successive coat is to be applied after drying up of previous coat by brush/roller/spray in/c cleaning, washing, rubbing, as necessary and sand papering the surface and necessary scaffolding, etc. all complete for all floors i/c cost of all materials as per direction of the E-I-C. The rate is included rubbing, removing damp/algae/ existing paint, minor wall/RCC surface repairing if required and preparing surface with proper washing/cleaning before applying prime coat.	Sq. M.	808.79		
B.5.3	5.16.04.1	Enamel paint wooden member: Prepare the surface by removing dust apply two coats of wood primer and two coats of enamel paint on wooden frame and shutter of window. Rate shall include for minor repairs, wood putting, and necessary brushes, machine, masking tape, sand papers require for surface preparation and scaffolding etc.all complete as per Direction of E-I-C .	Sq. m.	29.82		



B.5.4	5.16.04.2	Enamel paint for window grill: Prepare the surface by removing rust and apply two coats of anticorrosive paint and two coats of enamel paint on steel frame and shutter of window grill. Rate shall include for removing existing paint, rust, dust with minor repairs and necessary brushes, mechanical wire brush, masking tape, sand papers putty require for surface preparation and scaffolding etc all complete as per Direction of E-I-C .	Sq. m.	185.66		
B.6		Painting Works				
B.6.1	Based on current market analysis	Class Room Airt: In the school classrooms where various pictures and information are drawn, the pictures should be saved (videos, photos) and the painting work should be completed. After completing the painting work, the pictures should be re-drawn. all complete as per Direction of E-I-C .	Item	151.80		
C		Water Supply and Sanitation Facility works				
C.1	5.15.06.4	Supplying, fitting and fixing Wall tiles less than, equal or equivalent to 250 mm x 750 mm in sizes approved quality glazed ceramic wall tiles (RAK) on Toilets wall up to 1500mm high with 20 mm thick 1:3 cement sand (F.M.1.2) mortar base and raking out the joints with approved tile grout. Rate shall include for cutting laying and hire charge of machine and finishing with care etc. .	sqm	13.50		
C.2	5.15.01.1	Supplying and fixing approved quality 300mmx300mm Non-skid porcelain floor tiles (RAK) on toilet floor with 1:3 cement sand (F.M.1.8) mortar base and raking out the joints with approved colour tile grout including cutting and laying the tiles in proper way and finishing with care.	sqm	1.00		
C.3	7.29.3	Supplying, fitting and fixing of best quality country made 12 mm bib cock made from copper or copper alloy, chromium plated. The faucet conforms BDS EN 200:2009. The faucet tap shall be free from any leakage, permeation and other abnormalities. The water hammer value shall be 1.47 Mpa or under. The faucet after it has been operated 100000 times it shall be free from a seat-leakage and shall satisfy the reverse flow preventing performance. The inside and outside surfaces of the faucet shall be smooth and be free from blowholes, fissures, remarkable flows or injurious defects. The chromium plating on the faucet shall be of class 2 grade 1. The final coating should be done with chromium of minimum 0.1 micron. The faucet shall be made leak proof and fixing in position with selected tape etc. , all complete approved and accepted by the Engineer- in- charge. 12 mm CP open Bib Cock (PWD BW 26.29.3) Supply and fix 1/2" diameter brass or CP bib tap liver type	Nos.	5.00		
C.4	Based on current market analysis	Mirror (400 × 600 mm, bevelled edge) Supplying approved quality mirror of size 400 mm × 600 mm with bevelled edges, made of best quality float glass of uniform thickness with distortion-free reflection, silvered on the back with protective coating. The mirror shall be fitted and fixed in position with approved quality clips, screws, wall plugs or suitable adhesive backing, including all	Nos.	1.00		



		necessary fittings and accessories, complete in all respects as per design and direction of the Engineer-in-charge.				
		Supply and fix 400x600mm bevelled edge mirror				
C.5	Based on current market analysis	Supplying different inside dia best quality uPVC pressure pipe for water supply having specific gravity 1.35 - 1.45, and other physical, chemical, thermal, fire resistivity properties etc. as per BSTI approved manufacturer standards or ASTM, BS/ISO/IS standards fitted and fixed in position with sockets, bends, with all accessories such as Round grating/domed roof grating, bends, sockets etc. approved and accepted by the Engineer-in-charge. 25 mm dia wall thickness 2.2 mm - 3.4 mm (PWD BW 26.45.3)	M	10.00		
C.6	Based on current market analysis	GI Fittings (Socket, Elbow, Bend, Nipple, Plug, Tee, etc.) Supplying best quality galvanized iron (GI) pipe fittings including sockets, elbows, bends, nipples, plugs, tees and other necessary accessories of approved manufacturer, conforming to BSTI approved standards or ASTM/BS/ISO standards, complete in all respects. All fittings shall be properly threaded, fitted, and fixed in position with necessary jointing materials, sealing, and accessories as required, including cutting, threading, and installation work, as per design, drawing, and direction of the Engineer-in-charge, complete. 25 mm GI Socket, Elbow, Bend, Nipple, Plug, Tee & etc all complete as per direction of engineer	L.M	1.00		
C.7	Based on current market analysis	Stainless Steel (SS) Soap Case (1.2 mm thick) Supplying, fitting, and fixing approved quality stainless steel soap case made of minimum 1.2 mm thick SS sheet, corrosion-resistant and durable, of approved design and finish, including all necessary fittings, screws, brackets, and accessories. The item shall be properly installed in position as per drawing and direction of the Engineer-in-charge, complete in all respects. 1.2mm thick SS Soap case including fittings, fixing etc all complete	Nos.	2.00		
C.8	Page no 518 item number 631.	Supplying, fitting and fixing of 110 mm inside diameter & wall thickness 2.7 mm - 3.4 mm best quality PVC/HDPE rain water down pipe fitting, fixed in position with head and shoes, bends, min.20 mm width F.I. Bar clamp and nails, and including all accessories such as round grating/domed roof grating, bands, sockets approved and accepted by the Engineer-in-charge.	L.M	45.00		
D		Electrical Works with Fittings				
D.1	Based on current market analysis	MDB/SDB: Supplying, assembling, fitting, fixing & installation (with surface/concelled electric wiring for effective connection) of Main/Sub distribution board (Heavy Plastic/Metal enclosure) with necessary MCBs/DP/TP/SP, RCCB, Isolator, Basbar etc. as per sample and approval by E-I-C. Rate shall include for necessary electrical wiring from electric meter to the DB/SDB. Minimum one year warrantee	Nos.	1.00		
D.2	8.06.2.4	4 Gang Switch: Supplying, fitting and fixing 20mm thick switch board for fan regulators, lighting switches two pin and a three pin socket outlets	Nos	10.00		

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		the switch board to be made of teak wood and varnished on all sides etc. all complete as per drawing, design and directions of the E-I-C.				
D.3	8.06.2.05	Power Socket: Providing & fixing 250 volts. 5 / 6 amps (minimum) concealed type following switch / switch socket Manufactured / Assembled and tested in accordance with IEC / VDE / NEMA / BS / JIS along with relevant BDS IEC standards mounted on required size 18 SWG galvanized plain sheet / PVC board (Self-extinguishing 650 Degree Centigrade) of 76.2 mm (3") depth. All electrical contacts shall be of brass / copper. MADE IN HONGKONG / MALAYSIA / SINGAPORE / S KOREA / THAILAND [PWD- 4.12.2] One gang switch & one 5/10 Amps. 2/3-pin socket combined.	Nos	10.00		
D.4	8.04.1.1	Circuit Breaker (SPMCB) Providing & fixing on a prepared board 250 volt grade following single pole miniature circuit breaker (SPMCBs) having minimum breaking capacity 6- KA / 10 KA with thermal over-current and instantaneous electromagnetic short circuit release provision as per BDS IEC and IEC / VDE / NEMA / BS / JIS standard. SPMCBs accepted / approved by the Engineer-in-charge. [PWD-4.4.1] 10 – 40 Amps (minimum 6 KA) MCB [PWD-4.4.1.1]	Nos	10.00		
D.5	8.04.1.2	Circuit Breaker (SPMCB) Providing & fixing on a prepared board 250 volt grade following single pole miniature circuit breaker (SPMCBs) having minimum breaking capacity 6- KA / 10 KA with thermal over-current and instantaneous electromagnetic short circuit release provision as per BDS IEC and IEC / VDE / NEMA / BS / JIS standard. SPMCBs accepted / approved by the Engineer-in-charge. [PWD-4.4.1] 60/63 Amps (minimum 10 KA) MCB [PWD-4.4.1.2]	Nos	1.00		
D.9	8.10.32	Single Tube Light Set : Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of 1 x 4' x 40 watt Fluorescent tube light fitting of following manufacturers consisting of powder coated 22 SWG sheet steel frame of min. length 1240mm & breadth 60mm, designed acrylic sheet cover, superior quality electronic ballast of one year guarantee, holder, necessary wiring with 2 X 0.4 sq mm PVC insulated (stranded) flexible FR wire, earth terminal etc. complete (except lamp) of following model & as per sample accepted/approved by the Engineer. Ceiling / wall mounted type Crescent cat No. CTLS- 11 x 1 x 40 watt Dgn or Gloria cat No. GTF- 755 x 1 x 40 watt Dgn or Asha cat No. ACSTLS 317x 1x 40 watt Shwash cat No. SCTF- 34x 1 x 40 watt or equivalent product.	Nos.	8.00		
D.10	Based on current market analysis	Security Light: Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of 30 W LED wall mounted weathertight lamp with separate switch necessary	Nos	4.00		



		wiring with cable and switch etc. complete as per direction and sample approved by the Engineer E-I-C . Minimum one year manufacturer warrantee				
D.11	Based on current market analysis	Panel LED light: Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning 20W LED ceiling mounted lamp, square size (200mm x 200mm) with separate gang switch as per direction and sample approved by E-I-C. Minimum one year manufacturer warrantee	Nos.	15.00		
D.12	Based on current market analysis	Ceiling Fan with Regulator: Supplying, fitting and fixing 250V capacitor type ceiling fan-56" with regulator complete with concealed condensers, canopies and required length of rods, ceiling, roses, wooden round blocks, regulator, gang switches and required length of flexible wire etc as per sample and approval by E-I-C. all complete as per drawings rate shall include for necessary electrical wiring complete as per direction Engineer in- charge.	Nos.	8.00		
D.13	Wiring Repair: Conduit or surface wiring on surface with the following PVC insulated stranded cable (BYA) & green Colored PVC insulated ECC wire (BYA) through PVC Conduit complete with fixing materials and uPVC channel & other accessories as specified, Manufacturer according to the Specification & direction, sample approval by the Engineer- in-charge.					
D.13.1	8.05.05.2	1C-2x2.5sqmm (BYA) cable with 2.5sqmm (BYA) ECC wire through PVC pipe of minimum inner dia 25 mm having wall thickness of 1.7 mm	m	24.00		
D.13.2	8.05.05.1	1C-2x1.5sqmm (BYA) cable with 1.5sqmm (BYA) ECC wire through PVC pipe of minimum inner dia 20 mm having wall thickness of 1.5 mm	m	200.00		
D.13.3	8.05.05.4	1C-2x6.0 sqmm (BYA) cable with 6 sqmm (BYA) ECC wire through PVC pipe of minimum inner dia 25 mm having wall thickness of 1.7 mm	m	6.00		
D.13.4	Based on current market analysis	supply fitting & fixing 1" PVC Channel for cable wiring as per direction of E-I-C	m	100.00		
D.14	Based on current market analysis	Earthing system: Supply & installation (with effective connection) of 8'-0" Brass or Copper Rod (10mm dia) under 2'-0" from FGL outside school building, Connecting the rod with SDB's earthing bar by 6mm dia copper wire (properly soldering with the rod) through 25 mm dia pvc pipe complete with necessary accessories as per direction of Engineer in-charge.	Nos.	1.00		
G.13		Providing Single Line Diagram of the installed solar system in A3 size laminated paper	Nos	1.00		
GRAND TOTAL (BDT)						



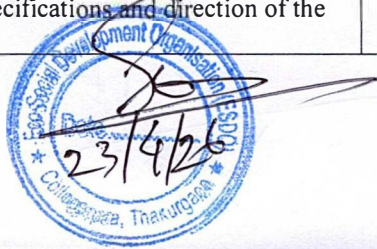
4. **Shelter/Scheme Name:** Char gulla kali GPS & Cyclone Shelter, **Location:** Near of Dhanshalik bazar more, Union- Dhanshalik, Upazila- Kabirhat. Noakhali. GPS: 22.789570,91.236810

Item	LGED Code	Description	Unit	Quantity	Rate BDT	Amount BDT
A		Alignment with the National Cyclone Shelter Policy				
A.1	Based on market analysis	Mobilization with additional scaffolding for repairing RCC slab cornice/drop wall/outer wall etc of two storied building, cleaning site before commencing actual physical work and during contract period and demobilization after completion of the Works under contract accepted by Engineer. This work shall also covers 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 concern Engineer, where, payments are to be based on ground area determined by the concern Engineer and be proportionate to the percentage progress of work under contract as a whole in all respects and approved by the ESDO E-I-C.	Item	1.00		
A.2	Based on market analysis	Rooftop Red Marking Signal Light : Supplying, fitting and fixing signal red light to ensure the shelter is visible during disasters, especially at night and in poor weather conditions. Type: LED-based solar-powered aviation warning light. Material: Weather-resistant, UV-stabilized polycarbonate and aluminum alloy body. Light Source: High-intensity red LED with a visibility range of at least 2-3 kilometers. Solar Panel Type: Monocrystalline or polycrystalline. Power Output: Minimum 5W to 10W depending on the light's power requirement. Battery: Lithium-ion battery with at least 24 hours of backup (fully charged). Lighting Mode: Steady or flashing (adjustable); Flash rate: 20-60 flashes/min. Ingress Protection: Minimum IP65 for water and dust resistance. Light stand : 2 inch dia, 3 mm thick and 1.5 m height GI pipe with a base plate on bottom with 4 nos 10 mm dia bolt and mounting plate on top. Mounting: Steel or aluminum mounting bracket compatible with the rooftop structure. Other Features: Automatic light sensor for dusk-to-dawn operation. All complete as per direction of the ESDO E-I-C.	Nos	1.00		
A.3	Based on market analysis	Mike with Siren System Installation: Supplying, fitting and fixing mike with siren system to broadcast announcements and emit a siren to alert the community during emergencies. Microphone Type: Handheld or gooseneck microphone with a noise-canceling feature. Frequency Response: 50 Hz to 15 kHz. Build: Durable, shock-resistant, and weather-resistant. Amplifier:	Item	1.00		

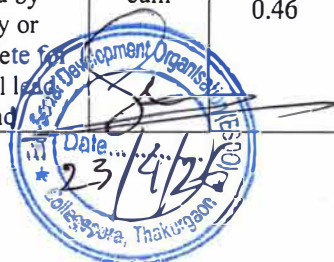


		<p>Power Output: Minimum 50W to 100W. Voltage: Compatible with the cyclone shelter's power system (solar backup preferred). Input Ports: Multiple inputs for microphone and auxiliary devices. Siren System Sound Range: Audible at a distance of 1-2 kilometers in open areas. Sound Patterns: Multi-tone options (wailing, steady, pulse) with adjustable volume. Power Source: Solar or AC/DC with a backup battery (minimum 6 hours of runtime). Speakers Type: Outdoor horn speakers with high weather resistance (IP65 minimum). Power Output: Minimum 20W per speaker. Material: Aluminum or ABS body with UV-resistant coating. Accessories: 1c-2x1.5 sqmm (BYA) Cable wire as per need. Professional PA System Siren: XLR connectors (3 pin or 4 pin) , and Magnetic microphone mounts. MS Cage Size: 4'x2.5' or As per need of Mike siren size. All complete as per direction of the ESDO E-I-C.</p>				
A.4	Based on market analysis	<p>Rooftop "S" Mark Painting : Supplying and painting "S" Mark on the roof top to identify the shelter as a designated emergency cyclone shelter from aerial views. Dimensions: Minimum 3 meters in length and 1.5 meters in width for clear visibility or as per drawings Color: High-contrast red paint with a white border (reflective for night visibility). Paint Type: Base Coat Anti-corrosion primer suitable for concrete surfaces. Top Coat: Reflective polyurethane or epoxy paint with UV and weather resistance. Durability: Weatherproof and resistant to rain, sun, and wind for a minimum of 5 years. Surface Preparation: Cleaning, sanding, and priming of the concrete rooftop before painting. Application: Two coats of reflective paint applied with a roller or spray for uniformity. All complete as per direction of the IOM E-I-C.</p>	Nos	1.00		
B		Civil Works				
B.1		Preliminary Works				
B.1.2	Based on market analysis	<p>Sign Board with Signage: Supplying, transporting, fitting and installation of approved best quality country-made mild steel (MS) signboard as per drawing, complete in all respects and accepted by the Engineer-in-Charge (E-I-C); size 2000 mm × 1000 mm, made of 2 mm thick MS sheet continuously welded on both sides with MS rectangular hollow box frame comprising 75 mm × 75 mm × 3 mm vertical columns and 50 mm × 50 mm × 3 mm horizontal members, including 4 nos. 12 mm dia anchor bars welded with column box and embedded minimum 450 mm into foundation; RCC foundation consisting of 400 mm × 400 mm × 400 mm footing and 250 mm × 250 mm × 600 mm column base using mix ratio 1:1.5:3 with minimum cement content ensuring $f_{cr} = 24 \text{ MPa}$, $f_{cs} = 17 \text{ MPa}$ at 28 days and water-cement ratio not exceeding 0.45, conforming to ACI/BNB (IS 456) standards.</p>	Item	1.00		

		using cement BDS EN-197-1-CEM-I 52.5N or ASTM C150 Type I, sand comprising 50% local (F.M. 1.2) and 50% Sylhet/coarse sand (F.M. 2.2), and 20 mm down well-graded stone chips as per ASTM C-33; including proper shuttering, reinforcement (12 mm dia bars @ 200 mm c/c in footing, 4 nos. 12 mm dia bars in column, 10 mm dia stirrups @ 150 mm c/c), machine mixing or batching plant, vibration, curing for minimum 28 days, and all associated costs such as water, electricity and testing; including dismantling of existing concrete if required, site cleaning and debris disposal, and 125 mm thick brick flat soling using 1st class bricks at foundation base (400 mm × 400 mm); surface preparation and painting with one coat anti-corrosive paint and two coats synthetic enamel paint in dark blue (IOM official color: RGB 0/51/160, HEX #0033A0, CMYK 100/80/3/2, Pantone 286C); also including supply and installation of 2 nos. high-quality reflective stickers (hexagonal pattern) of size 2000 mm × 1000 mm with prior sample approval from E-I-C.				
B.2		Structural Works				
B.2.1	5.05.03.02	Repairing of RCC: Repairing RCC member i.e. stair slab, roof Slab, column and beam where required by Micro Cement Concrete (1: 1.5: 3) with smooth finishing except plastering after demolishing or removing partial concrete. concrete repair is to remove the cracked and degraded concrete to a depth of 20 to 30 mm behind the reinforcing bars to fully expose the rusted reinforcement and move the contaminated concrete away from the objects. The aggregate will be 20mm downgraded stone chips . Clean steel reinforcement with mechanical wire-brushing or by sandblasting. In case the reinforcing bars are corroded and have lost more than 25% of their diameter, they have to be cut, removed and replaced. The rate shall be included providing temporary support to slab/beam with props during the curing time, using rusticide chemical/anti-crosive chemical, rapid setting non shrinking chemicals, bonding agent, wiremesh if required etc to repair the existing damaged or defected surface with all materials, labour and carrying etc all complete as per direction of IOM Engineer-in-Charge.	Cu.M.	3.42		
B.2.2	Based on market analysis	Rebar: Supplying and fabrication of Ribbed or deformed bar reinforcement for all types of RCC work including straightening, removing ruts, cleaning, cutting, hooking, bending, lapping and/or welding wherever required as directed, placing in position, tying with 22 BWG black annealed binding wire (PVC coated in case of FBEC rebar) double fold, cost of binding wire and anchoring to the adjoining members wherever necessary, supplying and placing with proper cover blocks (1:1), supports, chairs, spacers, splices or laps etc. including cost of all materials, cost of labour, cost of equipment & machinery, loading and unloading, transportation, all other incidental charges and work at all leads and lifts etc. to complete the work as per design, drawing, specifications and direction of the E-I-C.	kg	2.00		



B.2.3	Based on market analysis	Plaster Repair: 12mm thick cement plaster (1:3) on RCC/masonry surface with on the areas of beam, Column, slab, lintel, cornice, parapet wall, soffit of chillacota etc where wall plaster to be rectified and finish smooth including removing existing plaster with chipping etc all complete as per instruction of IOM Engineer in- Charge . The rate shall be included for masonry water tank platering with NCF and water proofing additive.	Sq. m.	30.76		
B.2.4	Based on market analysis	Water profing on the roof slab: Chipping the roof surface by claw hammer and proper cleaning by flashing water, provide 50mm (+-) patentstone layer on the existing roof, applied water profing chemical on the roof slab before ensuring proper slope by patenstone if required and approved quality material (Barger or equivalent-2 coats (horizontal and vertical direction) water Mr. Expert water barrier/Brush bond (13 Sq,M/ 20.088 kg pac) over a coat Nito bond SBR Latex plus and 2-coats Flexible Roofing Compound on top as finishing coats - color green) after preparation of the surface by removing existing rendering in alternative panels etc. After completing water profing works on roof, the roof need to be seen smooth slope surface and uniform color. All complete as per direction of the E-I-C. The rate will include cleaning, removing and washing existing top portion of slab.	Sq. m.	247.50		
B.2.5	Based on market analysis	Brick work 125mm : brick work with Kiln 1st class bricks/automatic machine made first class bricks in cement mortar (1:4) with Portland Composite cement (CEM II/AM, 42.5N) and best quality sand (minimum FM1.2) and making bond with connected walls with uniform width and depth joints, true to vertical and horizontal lines in/c necessary scaffolding, raking out joints, cleaning and soaking the bricks at least for 24 hours before use, washing of sand, curing for requisite period, etc. all complete as per direction of the E-I-C. Kiln bricks	Sq. M.	2.50		
B.2.6	5.12.3	Plastering with NCF: minimum 12mm thick cement plaster (1:4) with neat cement finishing including washing of sand and added Denso-01, finishing the edges and corners and curing for the requisite period etc. all complete as per direction of the Engineer-in-Charge. (Sand minimum FM. 1.2 to be used)	Sq. M.	6.45		
B.3		Ground Floor Development Works				
B.3.1	5.12.3	Floor Plastering with NCF: minimum 12mm thick cement plaster (1:4) with neat cement finishing including washing of sand and added Denso-01, finishing the edges and corners and curing for the requisite period etc. all complete as per direction of the Engineer-in-Charge. (Sand minimum FM. 1.2 to be used)	Sq. M.	187.63		
B.3.2	Based on current market analysis	EWEx(C/P/D): Earthwork in excavation to the lines, grades and elevation as shown in the drawing, filling baskets, carrying and disposing of all excavated materials including existing sand bags in both sides of road at a safe distance designated by the E-I-C in all types of rocky, gravelly, slushy or organic soil, levelling, dressing, etc. all complete for an initial excavation depth of 2m and an initial length not exceeding 20m, including arranging for and	cum	0.46		



		supplying all necessary tools and equipment at work site, etc. complete as per direction of the E-I-C.				
B.3.3	5.02.08.1	Sand Filling (FM 0.50) in the toilet foundation to improved sub-grade with sand free from dust, earth, other vegetable growth and foreign materials including supplying all materials, spreading, watering, compacting by appropriate mechanical means to obtain a minimum Soaked CBR 8% or Design CBR at minimum compaction 98% of MDD (Modified), etc. all complete as per direction of the E-I-C.	cum	2.65		
B.3.4	Based on current market analysis	Cement concrete 75mm thick lean cement concrete (1:2:4) in floor and wherever needed with Portland Composite Cement (CEM II/AM, 42.5N), best quality coarse sand (minimum FM1.2) and 20mm down well graded picked brick chips (LAA value not exceeding 38), in/c breaking bricks into chips screening, mixing by concrete mixer machine, laying, compacting, washing of sand, curing for requisite period, etc. all complete as per direction of the E-I-C. Top surface of floor shall be non-screeding with proper finishing.	sqm	19.59		
B.3.5	5.03.05	Providing single layer polythene sheet (0.18mm thick) weighing one kilogram per 6.5 square meter in floor or any where in ground floor underneath the BFS, etc. all complete as per specifications and direction of the E-I-C.	sqm	19.59		
B.4		Door, Window, Grill Repair Works				
B.4.1	Based on current market analysis	Supplying, fitting and fixing steel window/Door shutter as per existing design and frames welded with existing grill of window having requisite Nos. of vertical and horizontal standard Galvanized MS (19mmx19mmx3mm) 'Z' section for shutter with F.I. clamp 75mmx3mm duly embedded with Cement Concrete (1:2:4:) and mending good the damages in/c all cost of charges for fabrication and manufacture by welding, riveting, etc. supplying all essential fittings like stopper, handle, 3 nos catch hook 300mm long adjustable iron cleat, 50mm long pin hinge in/c supplying, fitting, fixing 18 BWG M.S. sheet in position welded to steel shutter with Tee stiffener (2 nos.) made with 25mm and 19mm flat bars fitted to shutter frame in three equal part and upper part should be provided with 5mm transparent polycarbonate sheet , vertically in each shutter etc for all ground floors. The rate including removing existing window shutter and handover to SMC with repairing window seal by plastering, applying anticorrosive and 2 coats enamel paint and finishing etc all complete as per direction of the E-I-C.	sqm	5.40		
B.4.2	Based on current market analysis	Window repair: Repair of metal swing frame window shutter with polycarbonate sheets by replacing the corroded GI sections and existing polycarbonate sheets should be replaced with 18 BWG GP. sheet. Existing MS/GI sections are 3mm thick and 19mm wide, shutter frame in three equal part and upper part should be provided with 5mm transparent polycarbonate sheet , vertically in each shutter, fabricating, welding, installation, cost of electricity, workshop charge, carriage, fixing with MS clamps or steel royal bolt in walls/RCC member. The rate including window seal by	sqm	13.50		



		plastering, applying 2 coats anticorrosive and 2 coats enamel paint (Berger) and finishing etc all complete as per direction of the E-I-C. (Total wt. per m2 should be 11.00 kg. For each kg excess or less add or deduct, as the case may be, @Tk. 140.00 per kg)				
B.4.3	Based on current market analysis	Minor Wooden door repair (2.1mX1m): Repairing of existing (100mmx38mm) lock rail, (125mmx38mm) and bottom rail (225mmx38mm), paneling 25mm thick one side raised provided with best quality 6 nos. 100mm iron hinges, 2 nos. best quality 12mm dia 300mm and 225mm long iron tower and socket bolts 2 nos. heavy type nickel plated handles, hinge cleats, buffer blocks and finished with sand papering for all floors etc. all complete as per direction of the E-I-C. (Single/Double leaf. All sizes of wood are finished). Jack wood. The rate includes a Heavy Security 60mm Pad Lock (HMBR) for each door.	nos	3.00		
B.4.4	Based on current market analysis	Hand rail repair at Ground floor: Supply and refixing of existing GI hand rails (Top chord 60mm dia GI pipe of 2.9mm wall thick) including a flat bar (25mm*5mm) at the bottom with vertical 20 mm dia GI pipes for stair/parapet with supply of all materials and accessories and replace the damaged/lost portions in hand rails with necessary removing, welding, fixing with the objects, carrying, loading, unloading, repairing hole, applying zinc-oxide etc all complete as required	Sq.M.	10.43		
B.4.5	Based on current market analysis	Supply, fabricate and fix 2 nos railing main gates -(2.06m x 1m) to ground floor hand rails with Top chord - 2"diameter 3mm thick GI pipe, Bottom chord - 1"diameter 3mm thick Gi pipe & internal verticals - 1/2"diameter 2mm thick Gi pipes at 6"centres. Rate shall include for fixing to wall and columns, apply of 2 coats of anticorrosive and 2 coats of enamel paints, floor finishing, cutting railing and making opening for ramp etc all complete.	sqm	3.58		
B.4.6	Based on current market analysis	Supplying, fitting and fixing MS stair railing of standard height with 2 mm thick 62 mm x 25 mm MS Box for handrail fixing with 2 nos of consecutive MS vertical post of 2 mm thick 50mm x 18 mm MS Box (4 nos vertical support in each flight, each vertical support containing 2 nos of consecutive SS vertical box of 125 mm space) fixing with tread by 75 mm long royal bolt, welding 1.5 mm thick 38 mm x 12 mm 5 nos horizontal MS Box between vertical support as per drawing, design including carrying, polishing, fabricating, welding etc.all complete and accepted by the Engineer-in-charge.	sqm	13.44		
B.5		Painting Works				
B.5.1	5.16.03.01	Plastic emulsion paint on internal wall: applying plastic paint (damp guard) on interior surface ceiling or slab/beam/column/wall with best quality and approved colour in a seal container from authorized manufacturer. Applying each coat and successive coat is to be applied as per manufacturer special procedure, to wall and ceiling in two coats over a coat of priming coat of water sealer and ready mixed putty of approved brand. It applied on sand papered and cleaned surface and after drying applied sealer coat, 2 coats of ready mixed wall putty of approved	Sq. M.	825.15		



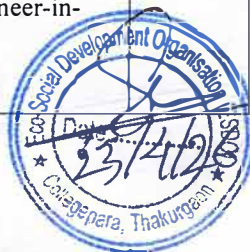
		brand, each coat dried and smoothened by sand papering. Applying plastic emulsion paint one vertical and one horizontal coat for each coat and successive coat is to be applied after drying up of previous coat by brush/roller/spray in/c cleaning the plinth, floors, doors, windows, portions and ventilators by washing, rubbing, as necessary and sand papering the surface and necessary scaffolding, etc. curing for the requisite period etc. all complete for all floors i/c cost of all materials as per direction of the E-I-C. 3 Coat. The rate is included rubbing, removing damp/algae/ existing paint, minor wall/RCC surface repairing if required and preparing surface with proper washing/cleaning before applying prime coat.				
B.5.2	5.16.02	Weather coat exterior paint: applying exterior paint on outside wall surface as per manufacturer instruction specific two weather coats over a premier coat of approved quality and colour delivered from authorized local agent of the manufacturer in a sealed container. Applying one vertical and one horizontal coat for each coat and successive coat is to be applied after drying up of previous coat by brush/roller/spray in/c cleaning, washing, rubbing, as necessary and sand papering the surface and necessary scaffolding, etc. all complete for all floors i/c cost of all materials as per direction of the E-I-C. The rate is included rubbing, removing damp/algae/ existing paint, minor wall/RCC surface repairing if required and preparing surface with proper washing/cleaning before applying prime coat.	Sq. M.	808.79		
B.5.3	5.16.04.2	Enamel paint for window grill: Prepare the surface by removing rust and apply two coats of anticorrosive paint and two coats of enamel paint on steel frame and shutter of window grill. Rate shall include for removing existing paint, rust, dust with minor repairs and necessary brushes, mechanical wire brush, masking tape, sand papers putty require for surface preparation and scaffolding etc all complete as per Direction of E-I-C .	Sq. m.	178.51		
B.6		Painting Works				
B.6.1	Based on current market analysis	Class Room Airt: In the school classrooms where various pictures and information are drawn, the pictures should be saved (videos, photos) and the painting work should be completed. After completing the painting work, the pictures should be re-drawn. all complete as per Direction of E-I-C .	Item	26.50		
C		Water Supply and Sanitation Facility works				
C.1	5.15.06.4	Supplying, fitting and fixing Wall tiles less than, equal or equivalent to 250 mm x 750 mm in sizes approved quality glazed ceramic wall tiles (RAK) on Toilets wall up to 1500mm high with 20 mm thick 1:3 cement sand (F.M.1.2) mortar base and raking out the joints with approved tile grout. Rate shall include for cutting laying and hire charge of machine and finishing with care etc. .	sqm	12.50		
C.2	5.15.01.1	Supplying and fixing approved quality 300mmx300mm Non-skid porcelain floor tiles (RAK) on toilet floor with 1:3 cement sand (F.M.1.8) mortar base and raking out the joints with approved colour tile grout including cutting and	sqm	1.00		



		laying the tiles in proper way and finishing with care.				
C.3	7.29.3	<p>Supplying, fitting and fixing of best quality country made 12 mm bib cock made from copper or copper alloy, chromium plated.</p> <p>The faucet conforms BDS EN 200:2009. The faucet tap shall be free from any leakage, permeation and other abnormalities. The water hammer value shall be 1.47 Mpa or under. The faucet after it has been operated 100000 times it shall be free from a seat-leakage and shall satisfy the reverse flow preventing performance. The inside and outside surfaces of the faucet shall be smooth and be free from blowholes, fissures, remarkable flows or injurious defects. The chromium plating on the faucet shall be of class 2 grade 1. The final coating should be done with chromium of minimum 0.1 micron.</p> <p>The faucet shall be made leak proof and fixing in position with selected tape etc. , all complete approved and accepted by the Engineer- in- charge.</p> <p>12 mm CP open Bib Cock (PWD BW 26.29.3)</p> <p>Supply and fix 1/2" diameter brass or CP bib tap liver type</p>	Nos.	5.00		
C.4		<p>Mirror (400 × 600 mm, bevelled edge)</p> <p>Supplying approved quality mirror of size 400 mm × 600 mm with bevelled edges, made of best quality float glass of uniform thickness with distortion-free reflection, silvered on the back with protective coating. The mirror shall be fitted and fixed in position with approved quality clips, screws, wall plugs or suitable adhesive backing, including all necessary fittings and accessories, complete in all respects as per design and direction of the Engineer-in-charge.</p> <p>Supply and fix 400x600mm bevelled edge mirror</p>	Nos.	1.00		
C.5		<p>Supplying different inside dia best quality uPVC pressure pipe for water supply having specific gravity 1.35 - 1.45, and other physical, chemical, themal, fire resistivity properties etc. as per BSTI approved manufacturer standards or ASTM, BS/ISO/IS standards fitted and fixed in position with sockets, bends, with all accessories such as Round grating/domed roof grating, bends, sockets etc. approved and accepted by the Engineer-in-charge.</p> <p>25 mm dia wall thickness 2.2 mm - 3.4 mm (PWD BW 26.45.3)</p>	M	10.00		
C.6		<p>GI Fittings (Socket, Elbow, Bend, Nipple, Plug, Tee, etc.)</p> <p>Supplying best quality galvanized iron (GI) pipe fittings including sockets, elbows, bends, nipples, plugs, tees and other necessary accessories of approved manufacturer, conforming to BSTI approved standards or ASTM/BS/ISO standards, complete in all respects. All fittings shall be properly threaded, fitted, and fixed in position with necessary jointing materials, sealing, and accessories as required, including cutting, threading, and installation work, as per design, drawing, and direction of the Engineer-in-charge, complete.</p> <p>25 mm GI Socket,Elbow,Bend,Nipple,Plug,Tee &</p>	L.M	1.00		



		etc all complete as per direction of engineer			
C.7		<p>Stainless Steel (SS) Soap Case (1.2 mm thick)</p> <p>Supplying, fitting, and fixing approved quality stainless steel soap case made of minimum 1.2 mm thick SS sheet, corrosion-resistant and durable, of approved design and finish, including all necessary fittings, screws, brackets, and accessories. The item shall be properly installed in position as per drawing and direction of the Engineer-in-charge, complete in all respects.</p> <p>1.2mm thick SS Soap case including fittings, fixing etc all complete</p>	Nos.	2.00	
C.8	Page no 518 item number 631.	Supplying, fitting and fixing of 110 mm inside diameter & wall thickness 2.7 mm - 3.4 mm best quality PVC/HDPE rain water down pipe fitting , fixed in position with head and shoes, bends, min.20 mm width F.I. Bar clamp and nails, and including all accessories such as round grating/domed roof grating, bands, sockets approved and accepted by the Engineer- in- charge.	L.M	45.00	
D		Electrical Works with Fittings			
D.1		MDB/SDB: Supplying, assembling, fitting, fixing & installation (with surface/concelled electric wiring for effective connection) of Main/Sub distribution board (Heavy Plastic/Metal enclosure) with necessary MCBs/DP/TP/SP, RCCB, Isolator, Basbar etc. as per sample and approval by E-I-C. Rate shall include for necessary electrical wiring from electric meter to the DB/SDB. Minimum one year warrantee	Nos.	1.00	
D.2	8.06.2.4	4 Gang Switch: Supplying, fitting and fixing 20mm thick switch board for fan regulators, lighting switches two pin and at the three pin socket outlets the switch board to be made of teak wood and varnished on all sides etc. all complete as per drawing, design and directions of the E-I-C.	Nos	10.00	
D.3	8.06.2.05	Power Socket: Providing & fixing 250 volts. 5 / 6 amps (minimum) concealed type following switch / switch socket Manufactured / Assembled and tested in accordance with IEC / VDE / NEMA / BS / JIS along with relevant BDS IEC standards mounted on required size 18 SWG galvanized plain sheet / PVC board (Self-extinguishing 650 Degree Centigrade) of 76.2 mm (3") depth. All electrical contacts shall be of brass / copper. MADE IN HONGKONG / MALAYSIA / SINGAPORE / S KOREA / THAILAND [PWD- 4.12.2] One gang switch & one 5/10 Amps. 2/3-pin socket combined.	Nos	10.00	
D.4	8.04.1.1	Circuit Breaker (SPMCB) Providing & fixing on a prepared board 250 volt grade following single pole miniature circuit breaker (SPMCBs) having minimum breaking capacity 6- KA / 10 KA with thermal over-current and instantaneous electromagnetic short circuit release provision as per BDS IEC and IEC / VDE / NEMA / BS / JIS standard. SPMCBs accepted / approved by the Engineer-in-charge. [PWD-4.4.1] 10 – 40 Amps (minimum 6 KA) MCB	Nos	10.00	



		[PWD-4.4.1.1]				
D.5	8.04.1.2	Circuit Breaker (SPMCB) Providing & fixing on a prepared board 250 volt grade following single pole miniature circuit breaker (SPMCBs) having minimum breaking capacity 6-KA / 10 KA with thermal over-current and instantaneous electromagnetic short circuit release provision as per BDS IEC and IEC / VDE / NEMA / BS / JIS standard. SPMCBs accepted / approved by the Engineer-in-charge. [PWD-4.4.1] 60/63 Amps (minimum 10 KA) MCB [PWD-4.4.1.2]	Nos	1.00		
D.6	8.10.32	Single Tube Light Set :Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of 1 x 4' x 40 watt Fluorescent tube light fitting of following manufacturers consisting of powder coated 22 SWG sheet steel frame of min. length 1240mm & breadth 60mm, designed acrylic sheet cover, superior quality electronic ballast of one year guarantee, holder, necessary wiring with 2 X 0.4 sq mm PVC insulated (stranded) flexible FR wire, earth terminal etc. complete (except lamp) of following model & as per sample accepted/approved by the Engineer. Ceiling / wall mounted type Crescent cat No. CTLS- 11 x1 x 40 watt Dgn or Gloria cat No. GTF- 755 x 1 x 40 watt Dgn or Asha cat No. ACSTLS 317x 1x 40 watt Shwash cat No. SCTF- 34x 1 x 40 watt or equivalent product.	Nos.	8.00		
D.7	Based on current market analysis	Security Light: Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of 30W LED wall mounted weathertight lamp with separate switch necessary wiring with cable and switch etc. complete as per direction and sample approved by the Engineer E-I-C . Minimum one year manufacturer warrantee	Nos	4.00		
D.8	Based on current market analysis	Panel LED light: Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning 20W LED ceiling mounted lamp, square size (200mm x 200mm) with separate gang switch as per direction and sample approved by E-I-C. Minimum one year manufacturer warrantee	Nos.	15.00		
D.9	Based on current market analysis	Ceiling Fan with Regulator: Supplying, fitting and fixing 250V capacitor type ceiling fan-56" with regulator complete with concealed condensers, canopies and required length of rods, ceiling, roses, wooden round blocks, regulator, gang switches and required length of flexible wire etc as per sample and approval by E-I-C. all complete as per drawings rate shall include for necessary electrical wiring complete as per direction Engineer in- charge.	Nos.	10.00		
D.10	Wiring Repair: Conduit or surface wiring on surface with the following PVC insulated stranded cable (BYA) & green Colored PVC insulated ECC wire (BYA) through PVC Conduit complete with fixing materials and uPVC channel & other accessories as specified, Manufacturer according to the Specification & direction, sample approval by the Engineer- in-charge.					-
D.10.1	8.05.05.2	1C-2x2.5sqmm (BYA) cable with 2.5sqmm (BYA) ECC wire through PVC pipe of minimum inner dia 25 mm having wall thickness of 1.7 mm	m	24.00		



D.10.2	8.05.05.1	1C-2x1.5sqmm (BYA) cable with 1.5sqmm (BYA) ECC wire through PVC pipe of minimum inner dia 20 mm having wall thickness of 1.5 mm	m	200.00		
D.10.3	8.05.05.4	1C-2x6.0 sqmm (BYA) cable with 6 sqmm (BYA) ECC wire through PVC pipe of minimum inner dia 25 mm having wall thickness of 1.7 mm	m	6.00		
D.10.4	Based on current market analysis	supply fitting & fixing 1" PVC Channel for cable wiring as per direction of E-1-C	m	100.00		
D.11	Based on current market analysis	Earthing system: Supply & installation (with effective connection) of 8'-0" Brass or Copper Rod (10mm dia) under 2'-0" from FGL outside school building. Connecting the rod with SDB's earthing bar by 6mm dia copper wire (properly soldering with the rod) through 25 mm dia pvc pipe complete with necessary accessories as per direction of Engineer in-charge.	Nos.	1.00		
G.13		Providing Single Line Diagram of the installed solar system in A3 size laminated paper	Nos	1.00		
GRAND TOTAL (BDT)						



Technical Evaluation Sheet

Sl. No	Criteria	Marks
1	<p>Relevant Experience in Similar Works:</p> <p>Experience in similar work for construction, repairing & renovation work, minimum 2 years, each year 6 points. Relevant documents must be submitted. "0" point if the required work order / contract / relevant documents are not available in bidding.</p>	12
2	<p>Logistics and Supply Capacity:</p> <ol style="list-style-type: none"> 1. Belcha, Kornik, Korai, Kodal, Hemar each items 10pcs each 2. Tiles Cutter Machine 2pcs 3. Welding Machine-01set 4. Painting Equipment 10 Set 5. Electrical Tool Box 5 set 6. Scaffolding & Shuttering Materials 7. Safety Materials 20 Set 8. First Aid Box 2pcs <p>Each criteria 2 Marks. The bidder shall confirm the availability of adequate logistics, equipment, and transportation facilities to ensure timely and efficient works and related goods.</p>	16
3	<p>Man Power:</p> <ol style="list-style-type: none"> 1. Diploma Engineer-01 2. Electrician-01, Helper-03 3. Plumber-01, Plumber Assistant-03 4. Massonary-05 5. Labour-10 <p>Each criteria 2 Marks.</p>	10
4	<p>Financial Capability (Turnover/Bank Solvency):</p> <p>The bidder shall have a minimum average annual turnover of BDT One crore over the last two (2) financial years and must provide valid supporting documents (e.g., audited financial statements or bank solvency certificates).</p>	15
6	<p>Delivery Schedule:</p> <p>The bidder shall submit a realistic and achievable delivery schedule, clearly indicating lead time and capacity to meet the required timeline.</p>	7
Total Marks		60

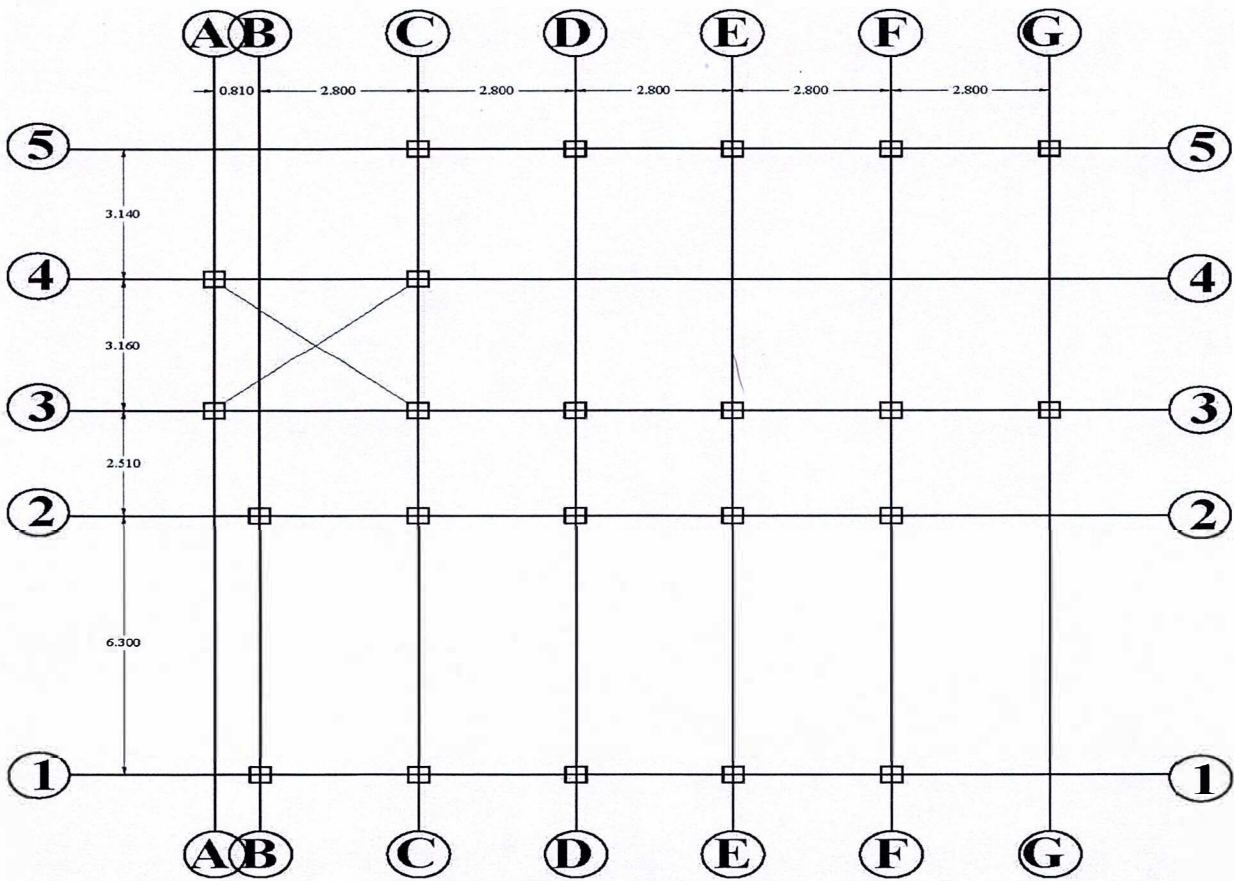


Design and Drawing

Design: The Design of Renovation of Evacuation Shelter (Construction) Works in Noakhali District, Chattogram Division.

1. Shelter/Scheme Name: Najirhat A Malek GPS & Cyclone Shelter:

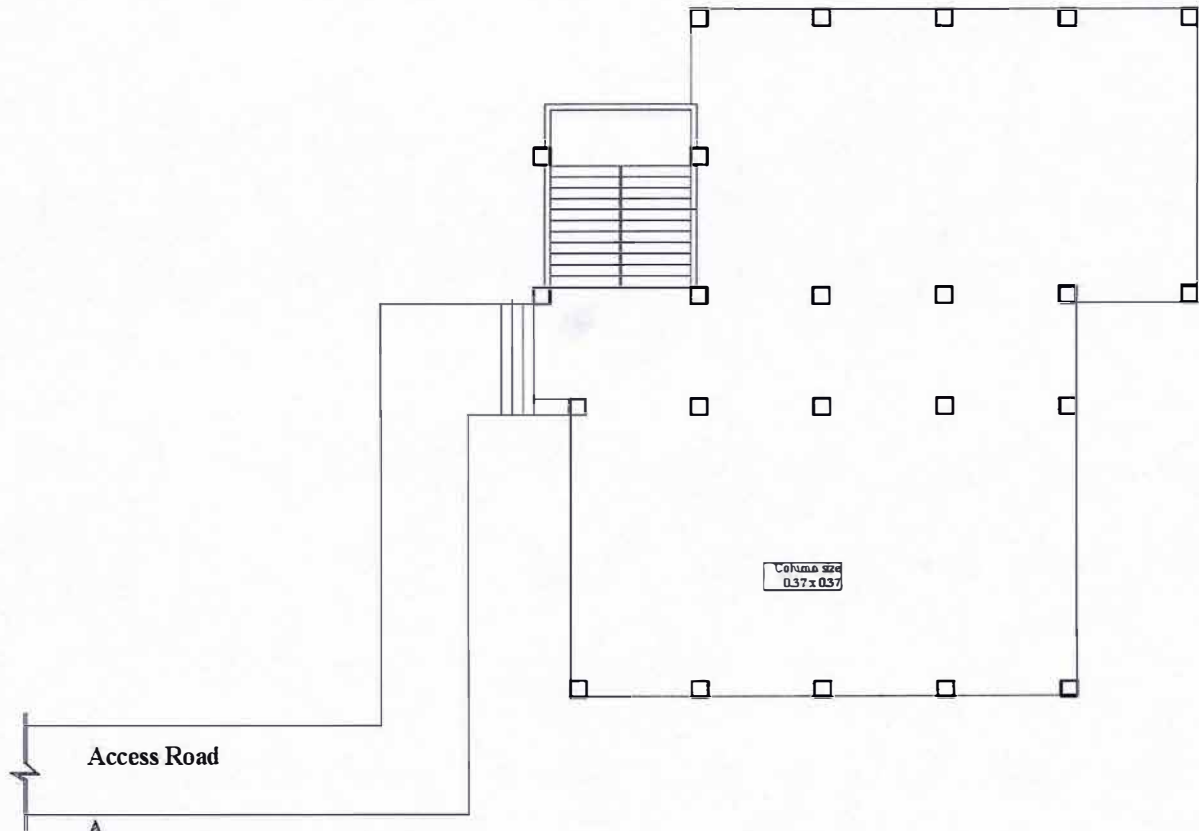
Najirhat A Malek Govt. Primary School & Cyclone Shelter
Union: Char Kakra, Upo: Companygonj, Dist: Noakhali



Lay-Out Plan

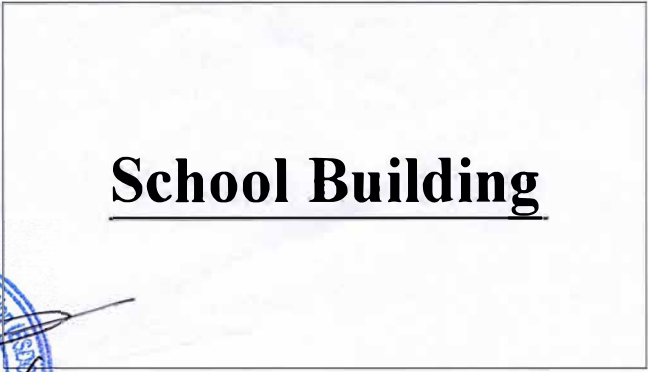


Najirhat A Malek Govt. Primary School & Cyclone Shelter Union: Char Kakra, Upo: Companiganj, Dist: Noakhali



Ground Floor Plan

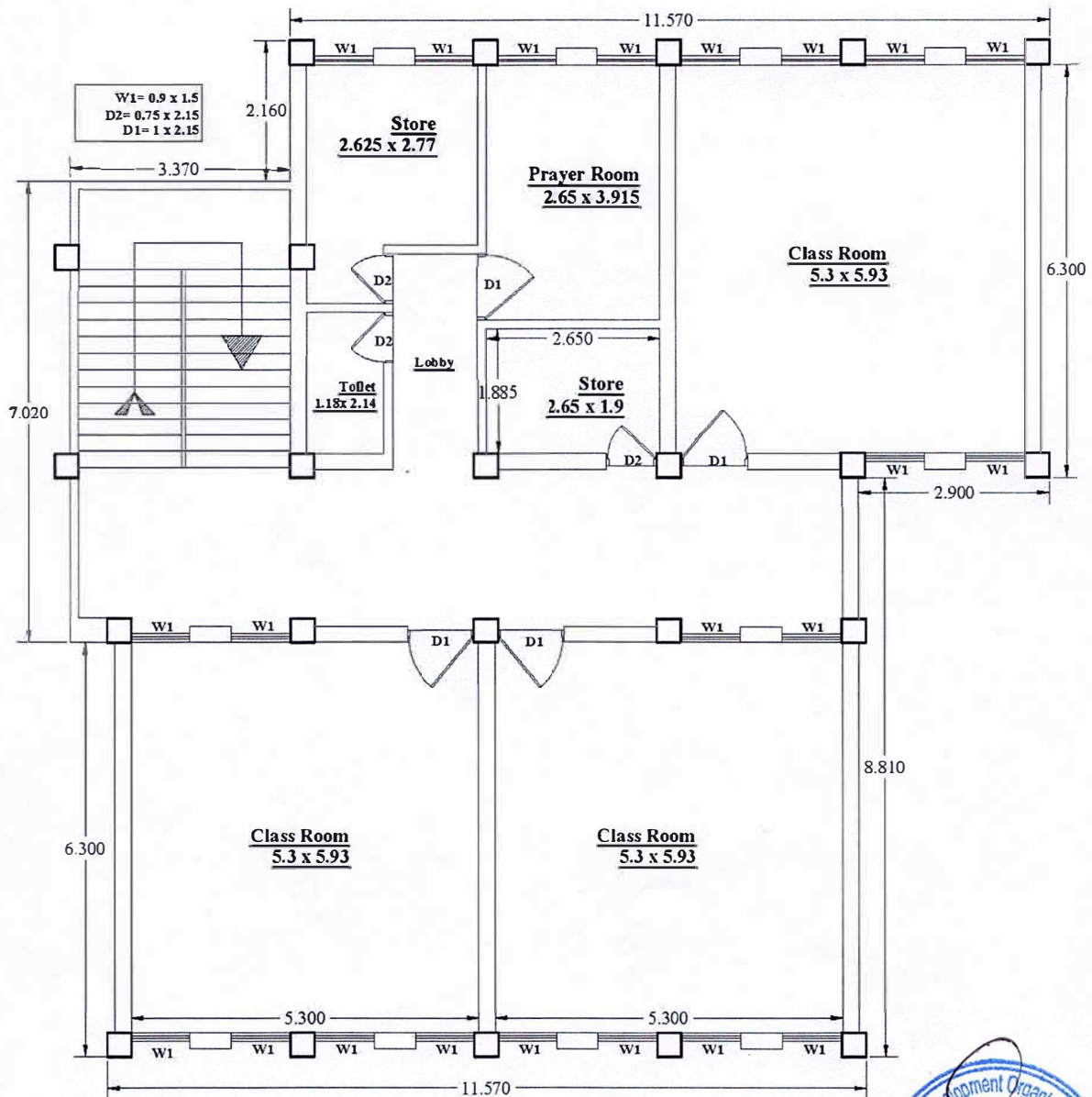
Play Ground



School Building



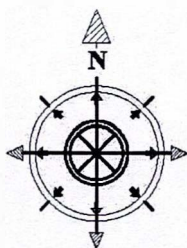
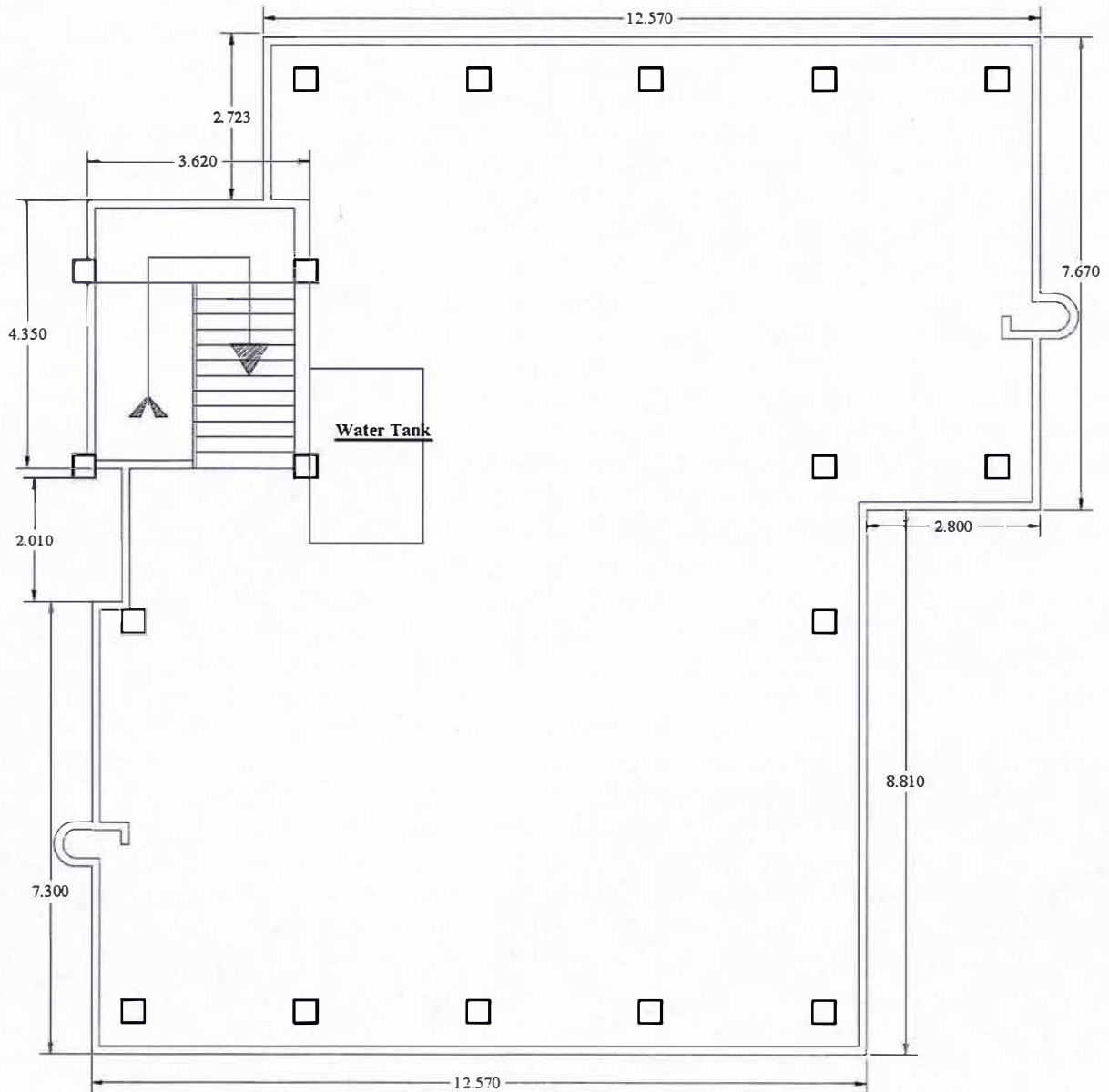
Najirhat A Malek Govt. Primary School & Cyclone Shelter
 Union: Char Kakra, Upo: Companygonj, Dist: Noakhali



1st Floor Plan



Najirhat A Malek Govt. Primary School & Cyclone Shelter
Union: Char Kakra, Upo: Companygonj, Dist: Noakhali

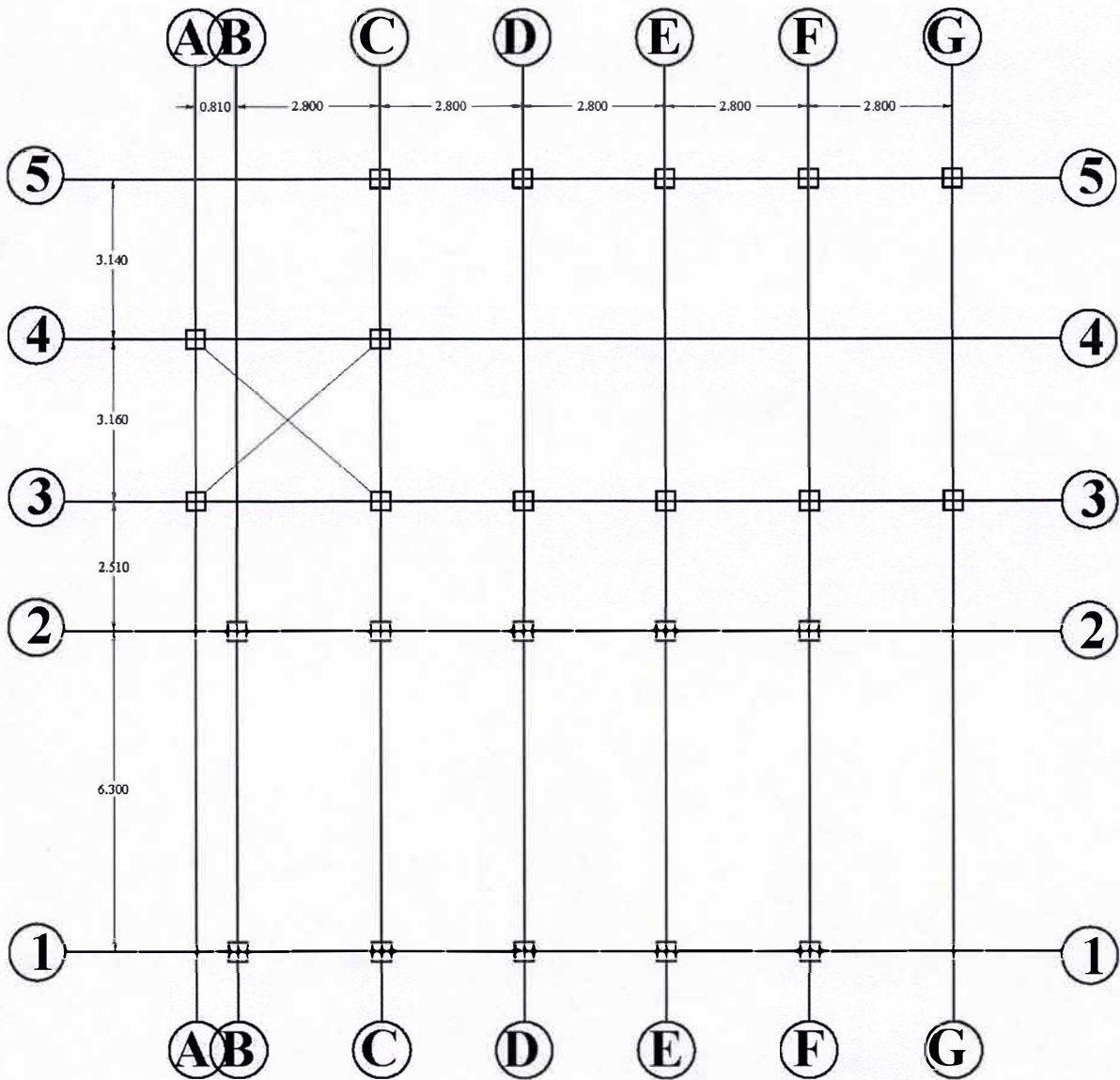


Rooftop Plan



2. Shelter/Scheme Name: Purbo Lamchi Ledu Companirhat GPS & Cyclone Shelter.

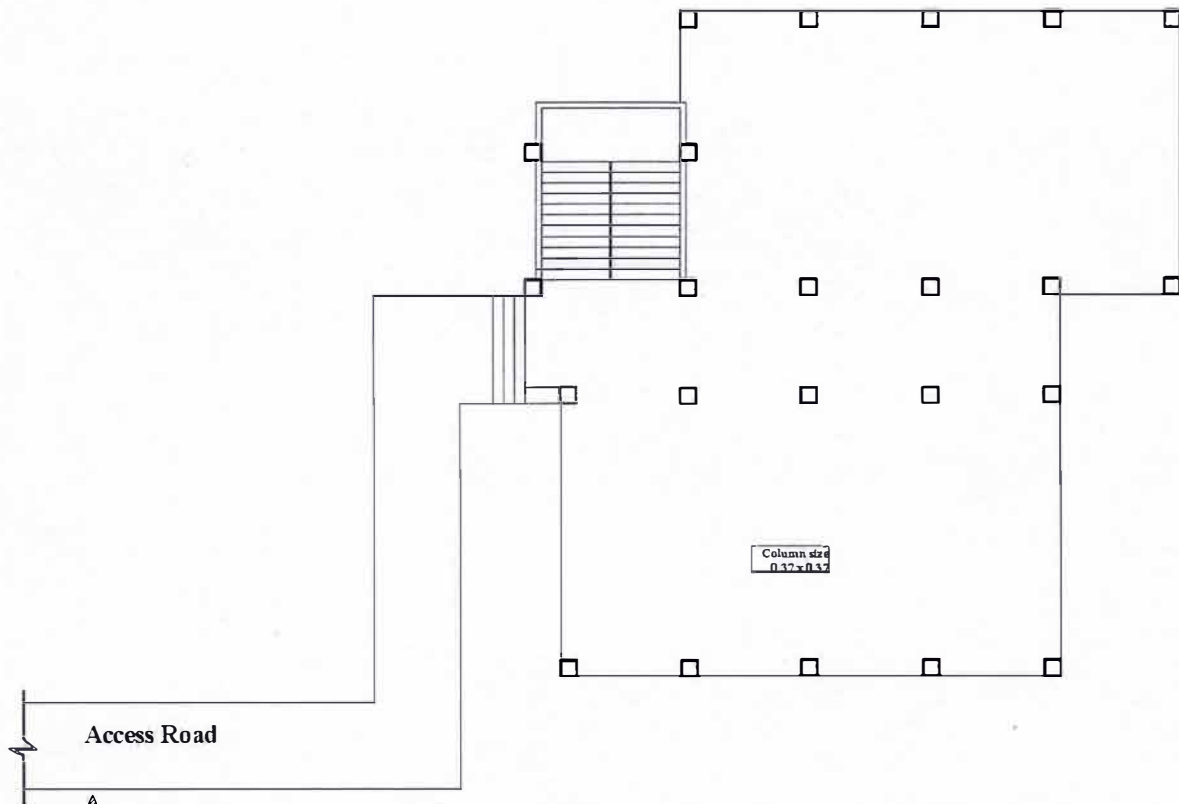
Purbo Lamchi Ledu Companyrhat Govt. Primary School & Cyclone Shelter
Union: Goshbag, Upo: Kabirhat Dist: Noakhali



Lay-out Plan



Purbo Lamchi Ledu Companyrhat Govt. Primary School & Cyclone Shelter
Union: Goshbag, Upo: Kabirhat Dist: Noakhali



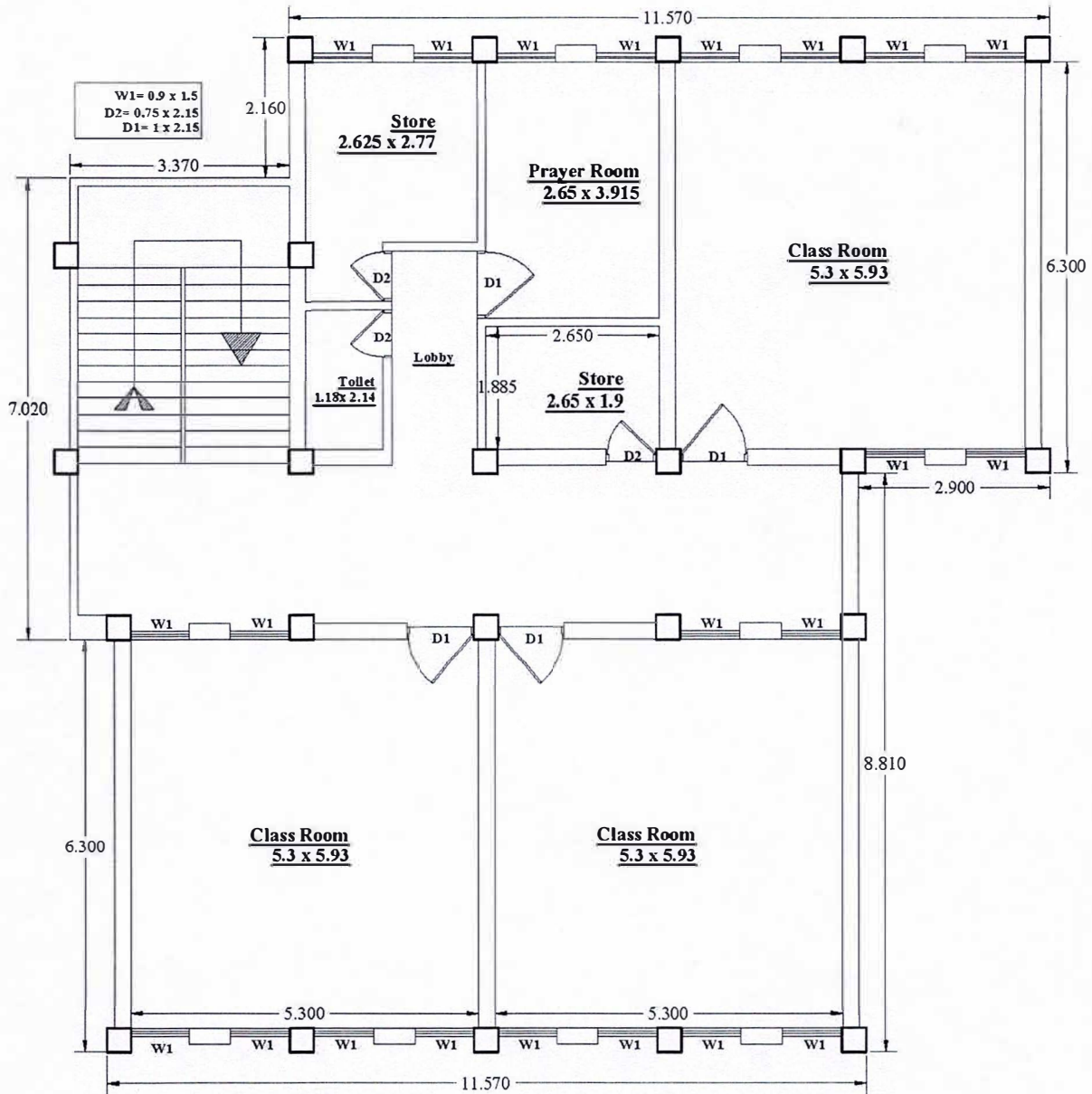
Ground Floor Plan

Play Ground

School Building



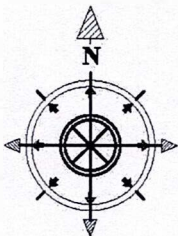
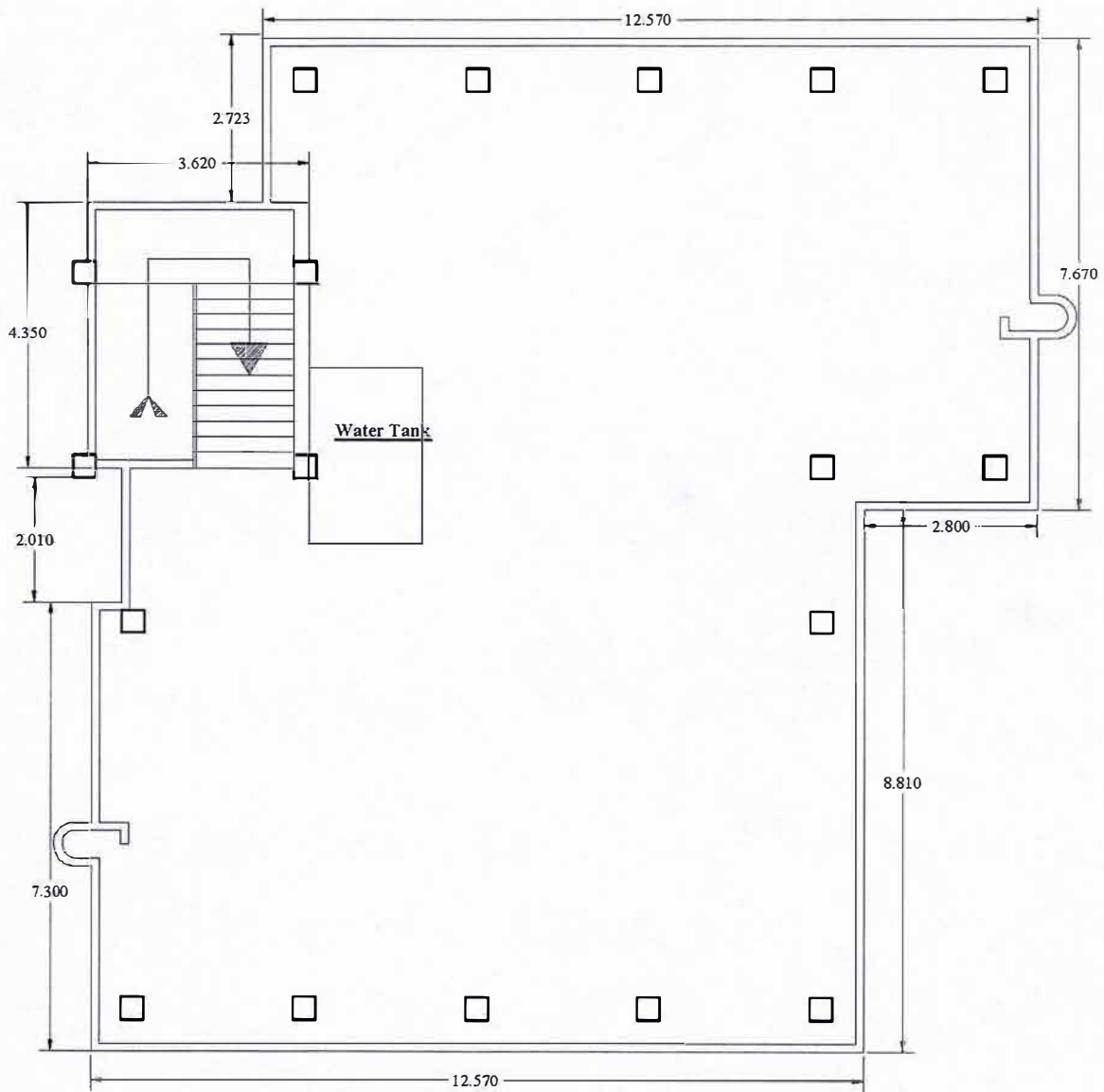
Purbo Lamchi Ledu Companyrhat Govt. Primary School & Cyclone Shelter
 Union: Goshbag, Upo: Kabirhat Dist: Noakhali



1st Floor Plan



Purbo Lamchi Ledu Companyrhat Govt. Primary School & Cyclone Shelter
Union: Goshbag, Upo: Kabirhat Dist: Noakhali

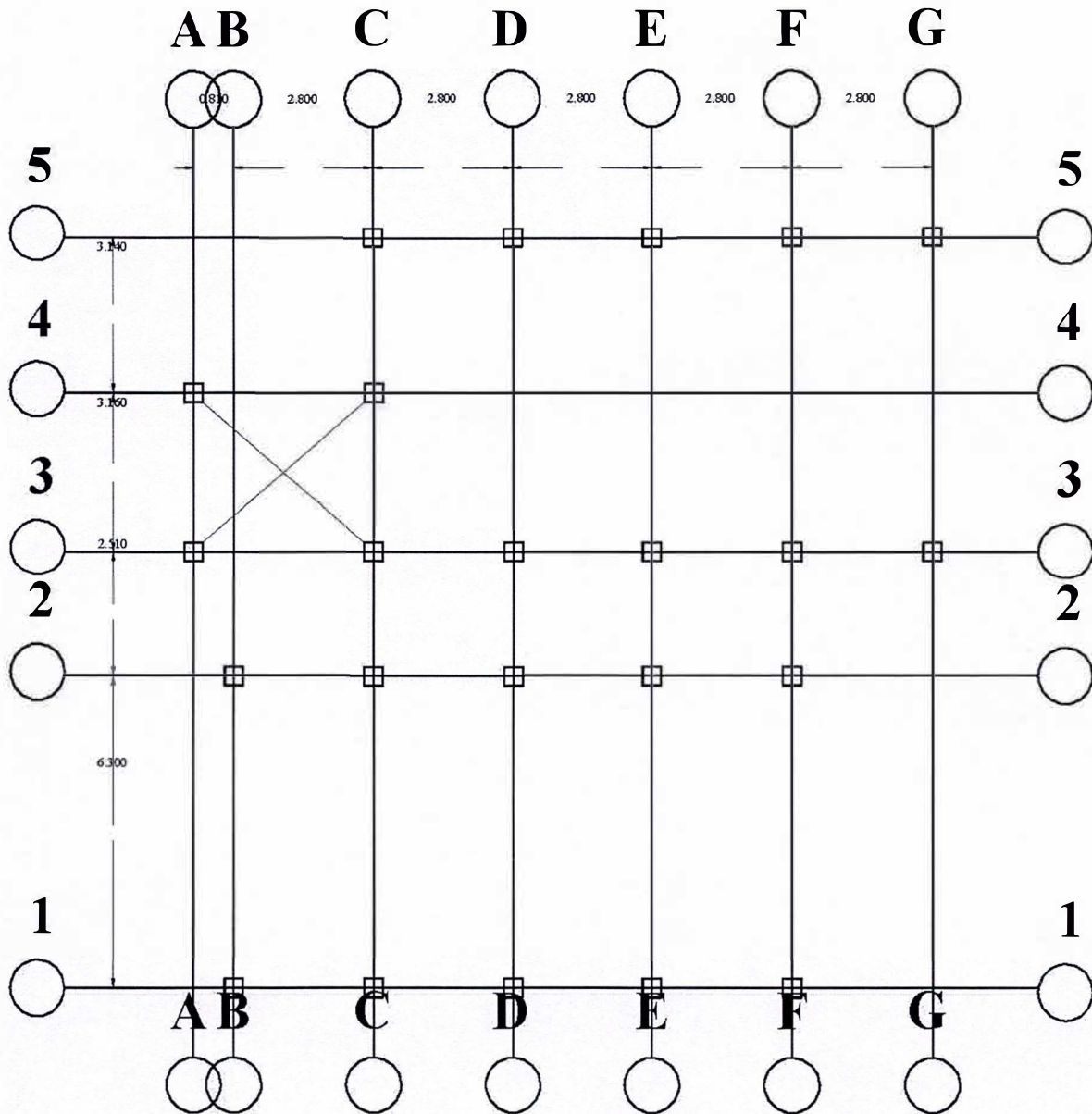


Rooftop Plan



3. Shelter/Scheme Name: Bamni GPS & Cyclone Shelter

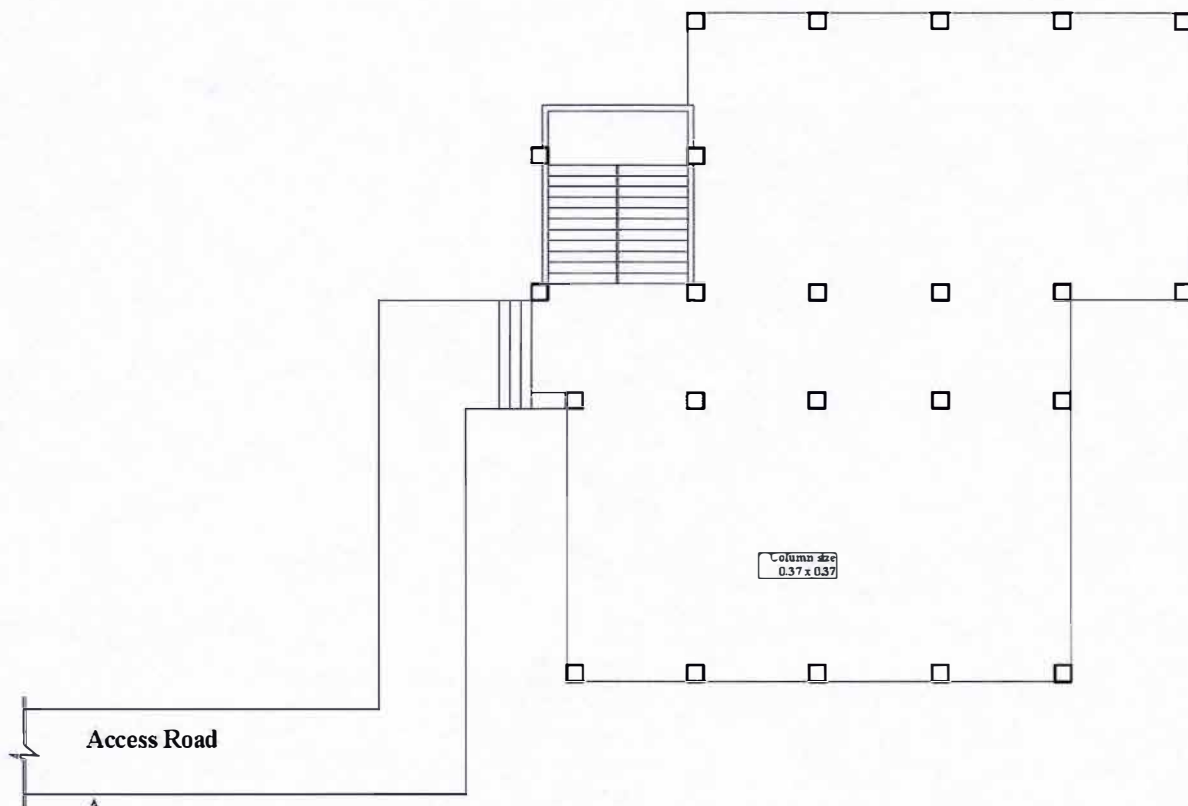
Bamni Govt. Primary School & Cyclone Shelter
Union: Rampur, Upo: Companiganj, Dist: Noakhali



Lay-Out Plan

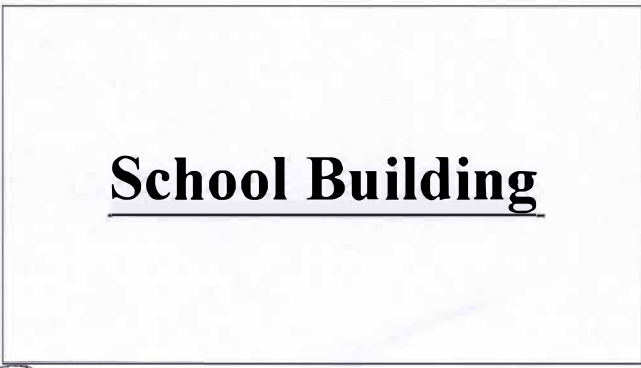


Bamni Govt. Primary School & Cyclone Shelter Union: Rampur, Upo:
Comaniganj, Dist: Noakhali



Ground Floor Plan

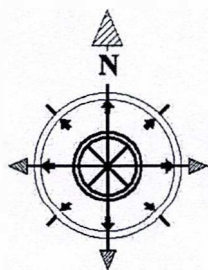
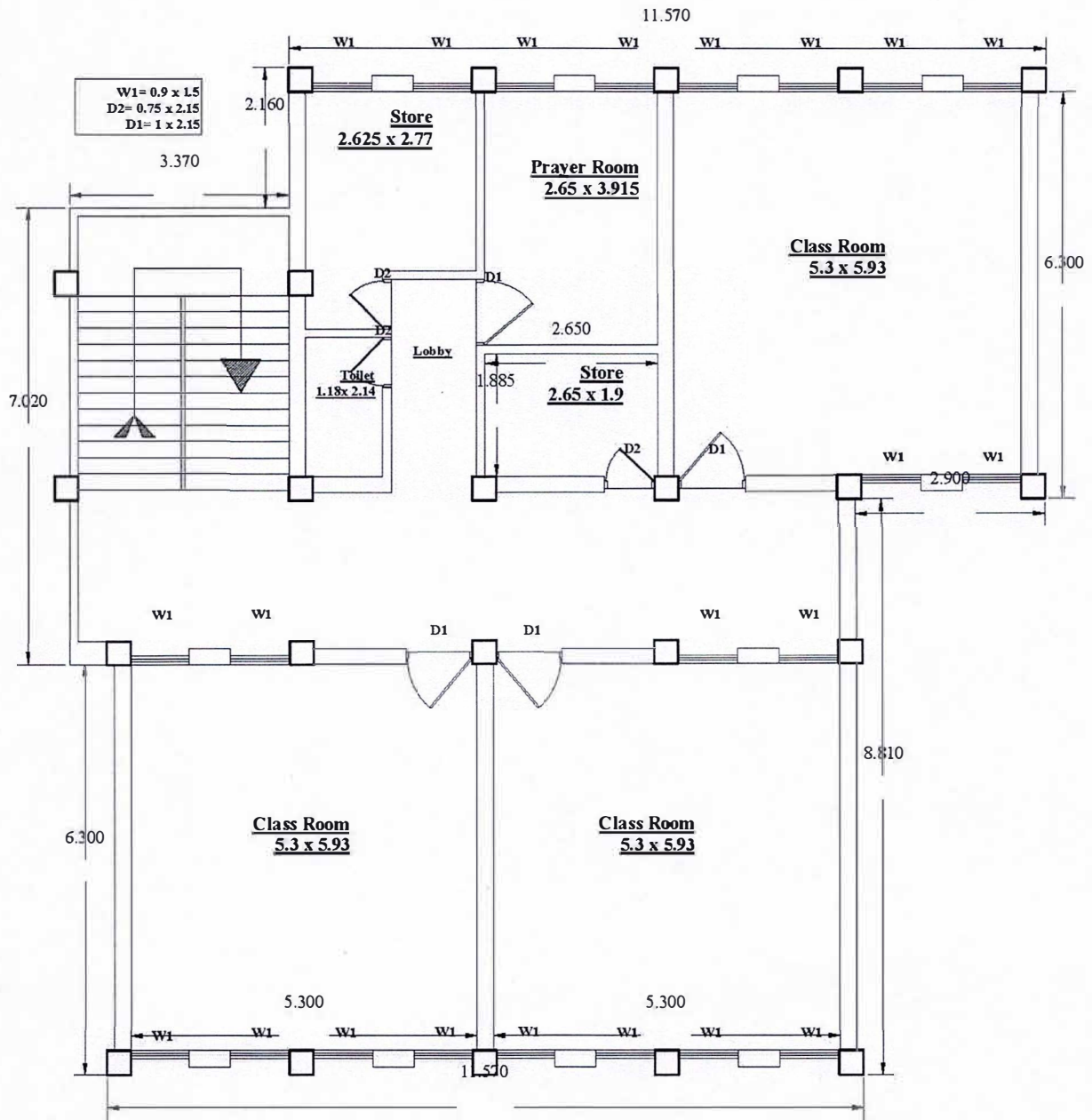
Play Ground



School Building



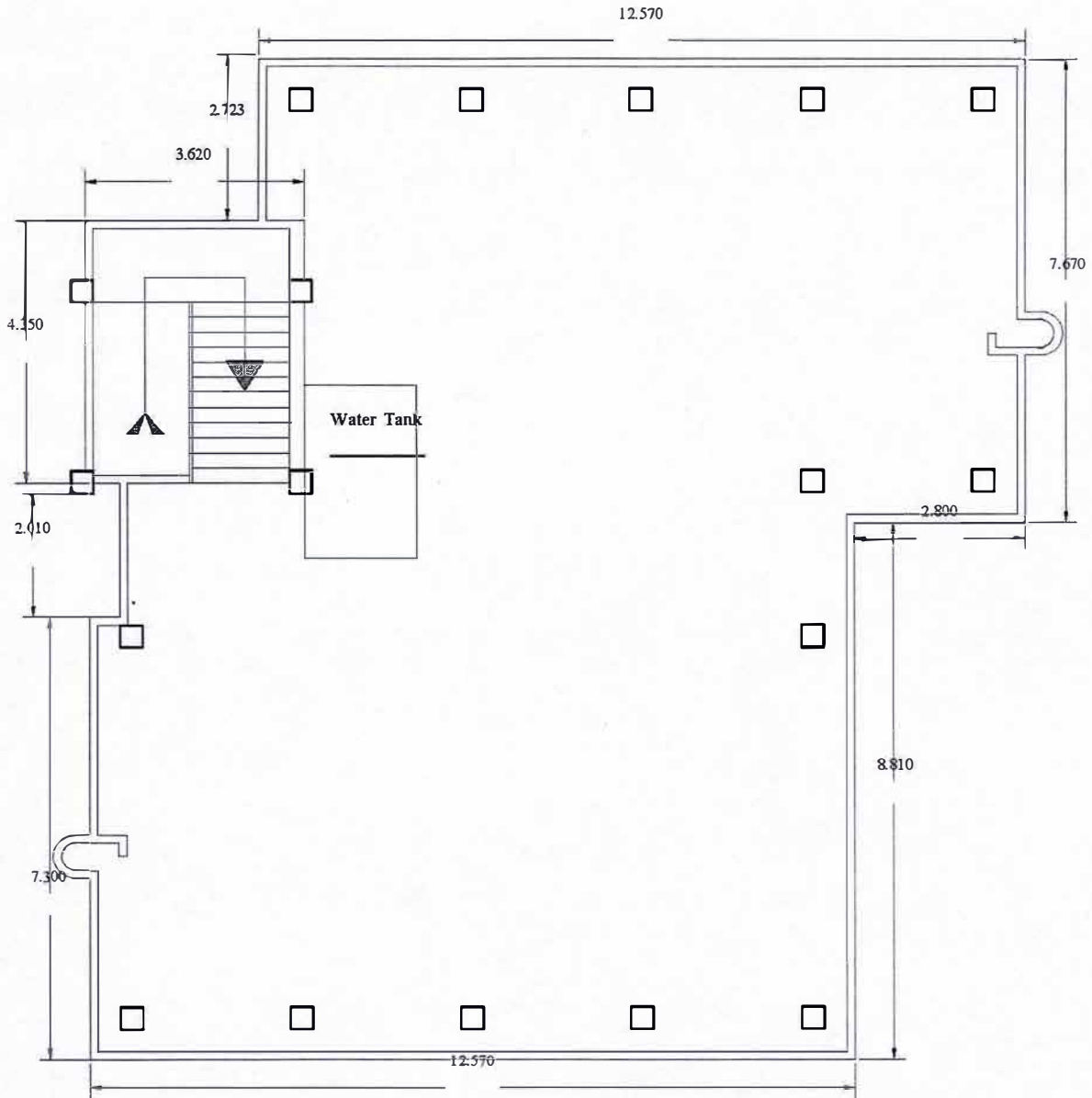
Bamni Govt. Primary School & Cyclone Shelter
 Union: Rampur, Upo: Companiganj, Dist: Noakhali



1st Floor Plan



Bamni Govt. Primary School & Cyclone Shelter
Union: Rampur, Upo: Companiganj, Dist: Noakhali

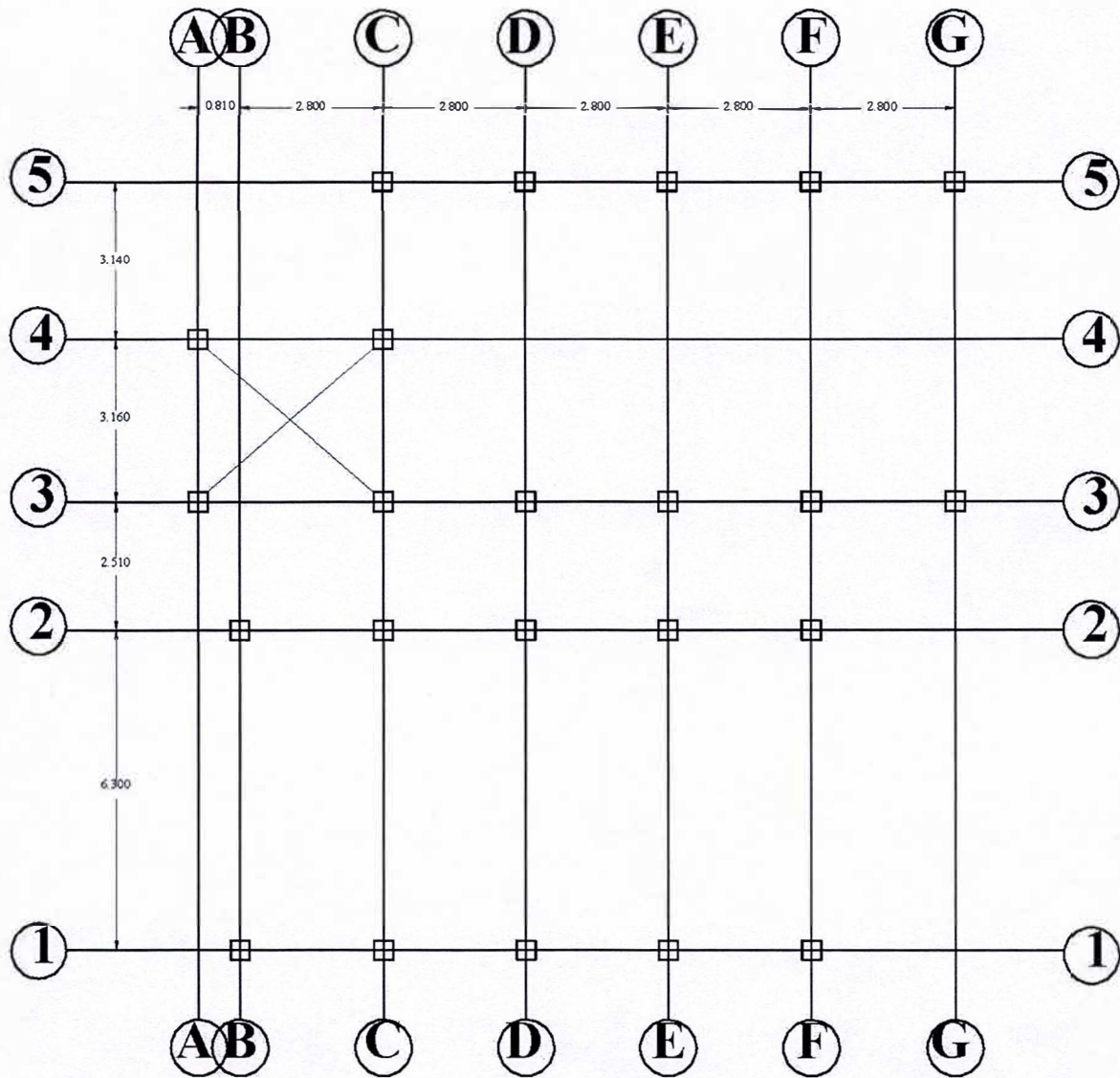


Rooftop Plan



4. Shelter/Scheme Name: Char gulla kali GPS & Cyclone Shelter

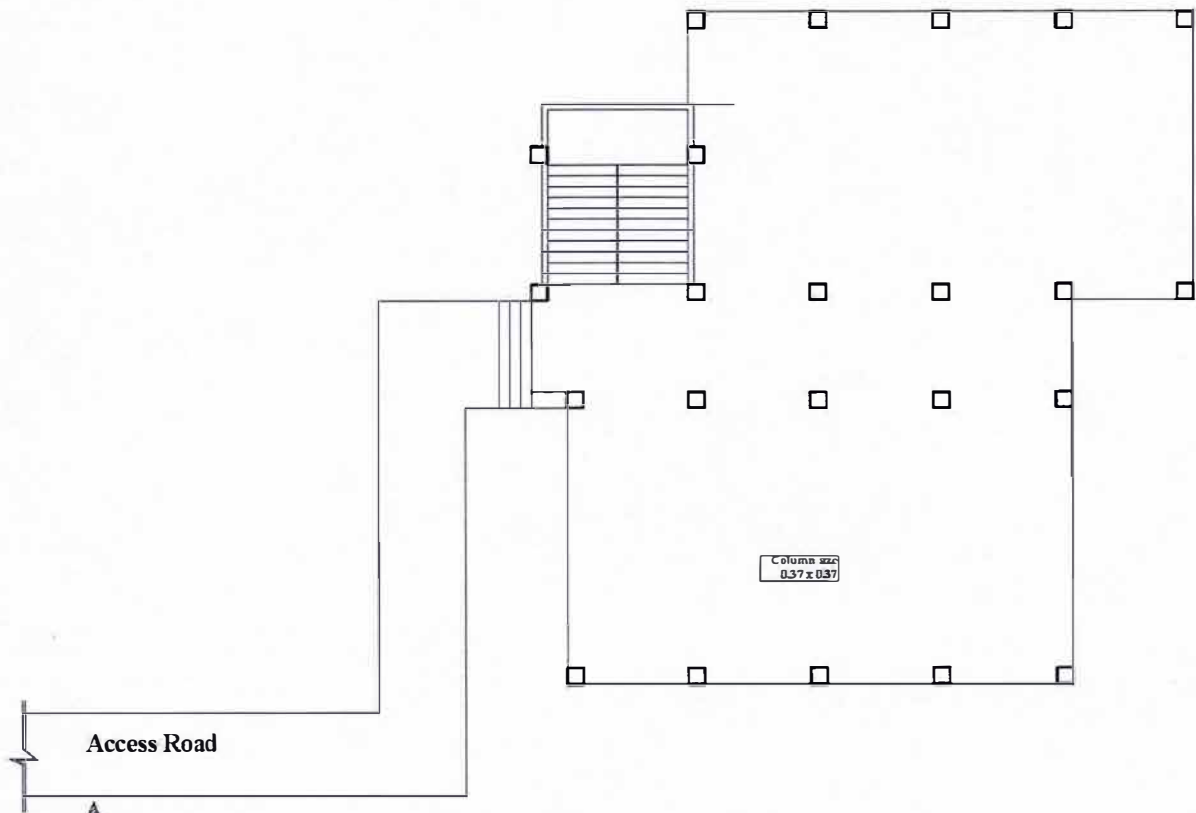
Chargulla Khali. Primary School & Cyclone Shelter
Union: Dhanshalik, Upo: Kabirhat, Dist: Noakhali



Lay-Out Plan



Chargulla Khali Govt. Primary School & Cyclone Shelter Union: Goshbag,
Upo: Kabirhat Dist: Noakhali



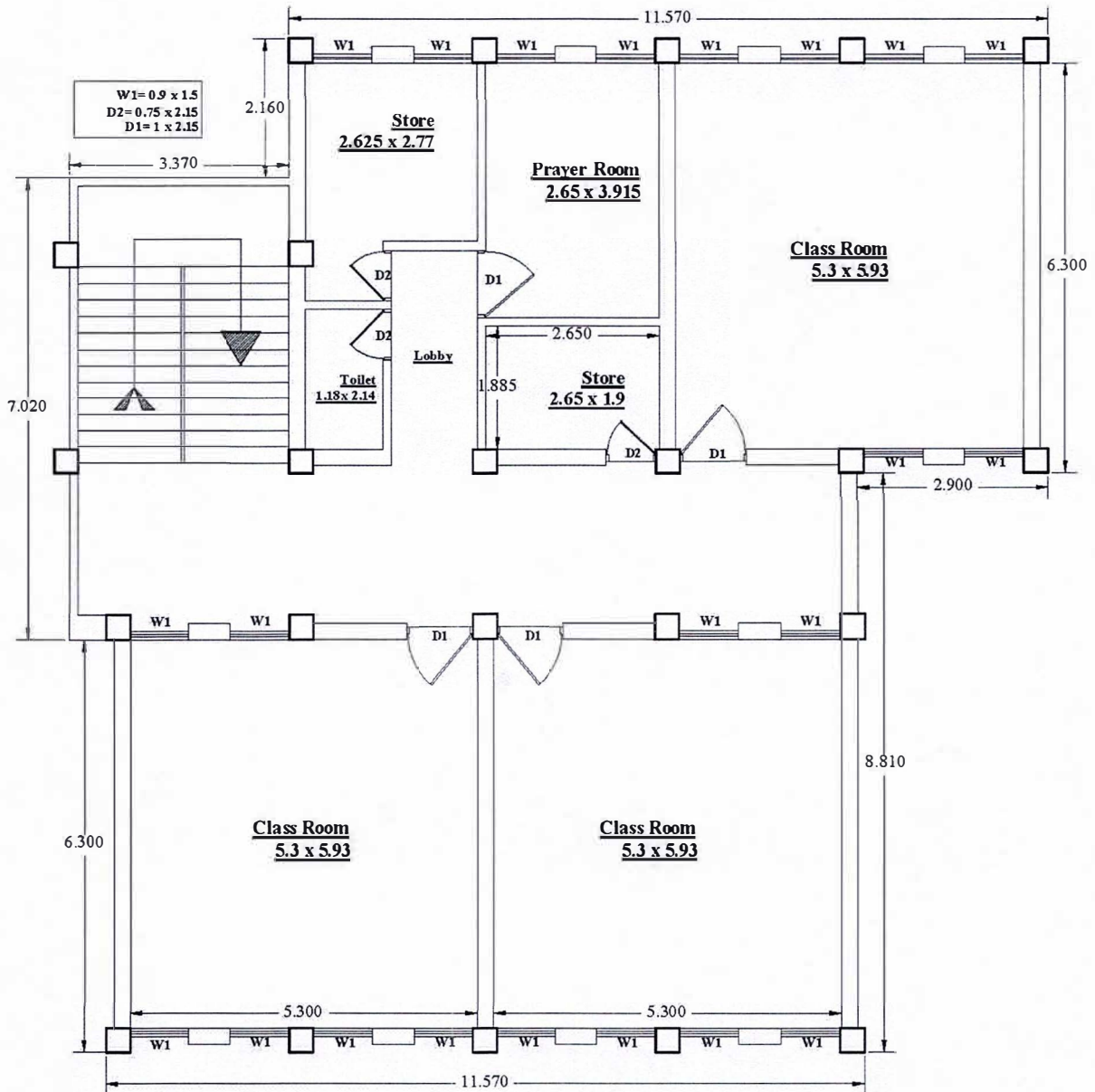
Ground Floor Plan

Play Ground

School Building



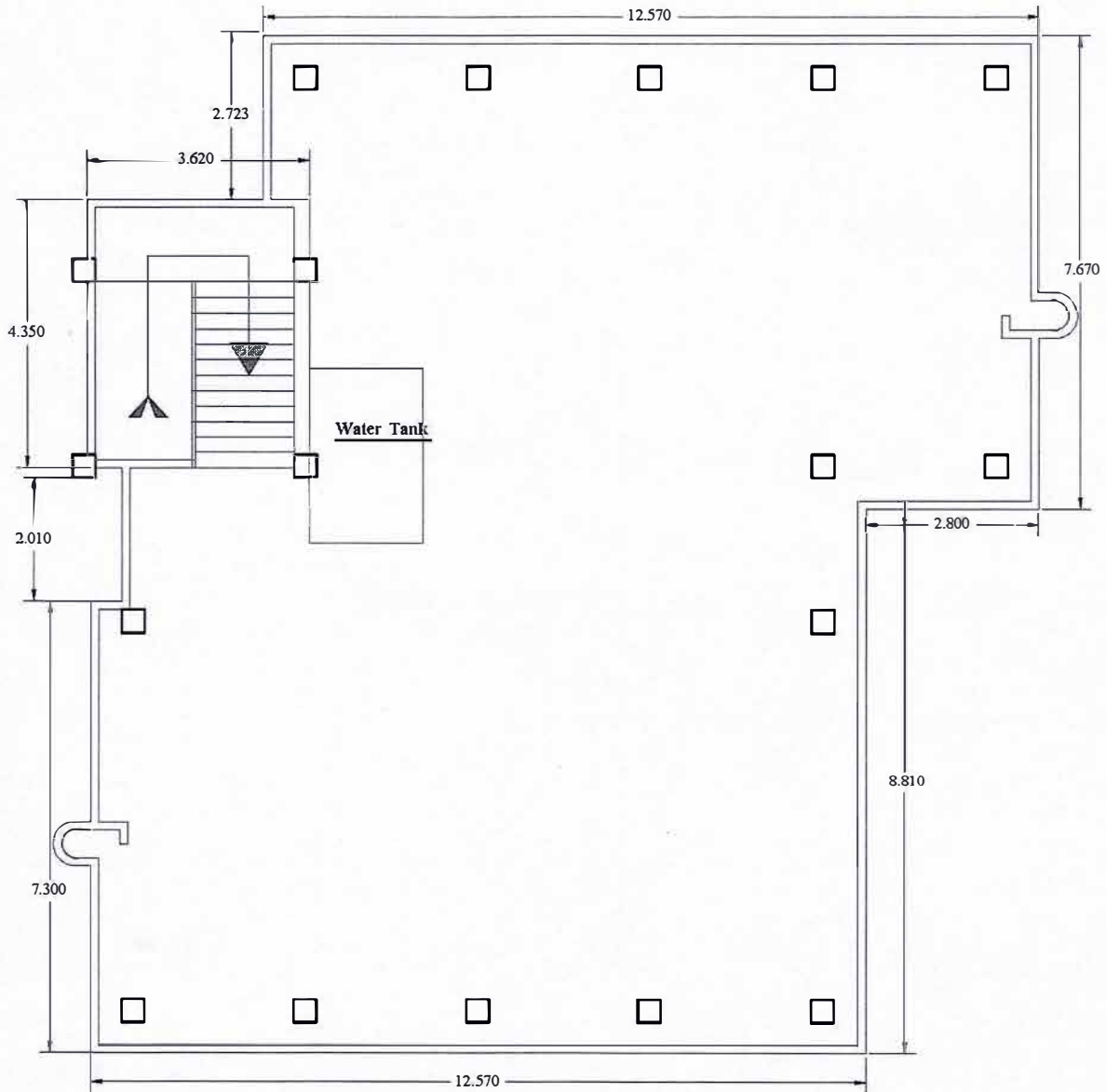
Chargulla Khali Govt. Primary School & Cyclone Shelter
Union: Dhanshalik, Upo: Kabirhat, Dist: Noakhali



1st Floor Plan



Chargulla Khali Govt. Primary School & Cyclone Shelter
Union: Dhanshalik, Upo: Kabirhat, Dist: Noakhali



Rooftop Plan



Terms and Conditions

1. **Completion time:**
Work must be completed and handed over by **31 May 2026**.
2. **Eligibility Documents:**
Bidder shall submit valid copies of: Trade License, TIN Certificate, BIN (VAT Registration), and updated PSR Certificate. All invoices must be submitted on **Mushak 6.3** as per VAT regulations.
3. **Quotation Opening:**
Quotations shall be opened at **11:00 AM on 30/04/2026**. Bidders/representatives may attend. Quotations valid for **90 days** from submission date.
4. **Work Location:**
Construction work shall be repaired to ESDO- Supporting eastern flood response and recovery (FRR) project in Char Kakara, Ghosbag, Rampur and Dhanshalik Unions under Companiganj and Kabirhat upazilas, Noakhali District, Chattogram Division.
5. **VAT & TAX:**
Applicable VAT & income tax shall be deducted at source as per Govt. of Bangladesh rules.
6. **Payment:**
All bill/invoices must be submitted on **Mushak 6.3** as per VAT regulations. Payment will be made through Account Payee cheque/Pay order/RTGS/BFTN or DD in favour of vendor. After fully work completion bill will be paid. Any partial bill paid not allowed.
7. **Delay Penalty:**
0.5% of total value of delayed goods per day of delay. If delay exceeds **two (02) weeks** without prior approval, PO may be cancelled at ESDO's discretion.
8. **Right to Cancel:**
ESDO reserves the right to accept/reject any or all quotations, and to cancel tender in whole or in part at any stage without assigning any reason.
9. **Ethical Compliance:**
Bidder shall comply with all labor & ethical standards. **Child labor, harassment, or any unethical practice strictly prohibited** – may result in disqualification or contract termination.
10. All works are subject to ESDO inspection and supervision.
11. Agreement to be signed on **ESDO Pad/Stamp** before work order.
12. Quoted price is final; no change allowed.
13. Work must follow ESDO engineer's instructions and maintain quality.
14. Substandard or incomplete work will not be paid.
15. ESDO may increase/decrease work quantity; unit rate remains fixed.
16. Contractor liable for all safety, loss, or accident during work.
17. ESDO may cancel contract for delay, poor quality, or misconduct.
18. If there is any kind of calculation mistake in the tender quotation, the tender will not be accepted.

Sincerely,

Convener/Member Secretary
Central Procurement Committee,
ESDO, Baitul Aman Housing Society, Dhaka-1207



Tender Submission Letter
(On Tenderer's Letterhead)

Tender No: ESDO/Purchase/126/652/2025-2026
___ / 2026

Date: ___ / ___ /

To:

Convener, Central Procurement Committee
, House-748, Road-8 Adabor, Baitul Aman Housing Society, Dhaka-1207

Subject: Submission of Tender for Renovation of Evacuation Shelter (Construction) Works.

Dear Sir,

We submit our Tender for the above-mentioned works. Our total price is:

- Taka [amount in figures]
- Taka [amount in words]

SL	Items	Qty	Unit	Unit Price	Total (BDT)
01	Renovation of Evacuation Shelter (Construction) Works	4	Nos		
Total With Vat and Tax					

We confirm that:

1. Our Tender is valid as per Tender Document.
2. We meet all eligibility criteria.
3. We accept all Terms & Conditions.
4. Your Notification of Award will be binding until a formal contract is signed.

Authorized Signatory:

Signature: _____

Name: _____

Designation: _____

On behalf of: [Tenderer Name]



Contract Agreement

Renovation of Evacuation Shelter (Construction) Works.

Date: ----- **May 2026.**

Parties:

- **ESDO, Baitul Aman Housing Society, Dhaka-1207**
- **[Contractor Name & Address]**

- 1. Purpose:** Contractor will carry out Renovation of Evacuation Shelter (Construction) Works under ESDO- Flood Response and Recovery (FRR) project- implemented in Noakhali District, Chattogram Division.
- 2. Scope:** Works to be executed as per approved Tender Schedule, rates, and specifications.
- 3. Delivery:** Contractor to complete and hand over works at their cost within agreed timeframe.
- 4. Delay penalty:** **0.5%** of total value of delayed goods per day of delay. If delay exceeds **two (02) weeks** without prior approval, PO may be cancelled at ESDO's discretion.
- 5. Payment :** ESDO may increase/decrease work quantity; unit rate remains fixed. All bill/invoices must be submitted on **Mushak 6.3** as per VAT regulations. Payment will be made through Account Payee cheque/Pay order/RTGS/BFTN or DD in favour of vendor. After fully work completion bill will be paid.
- 6.** Payment via Cheque/Pay Order/RTGS/BEFTN/DD based on actual work completion:
- 7. Validity:** Unit rates valid for **90 days** from signing date.
- 8. Compliance:** Contractor shall follow laws, ethics, and ESDO policies. **No child labor or exploitation allowed.**
- 9. Termination:** ESDO may terminate this Agreement in full or in part with written notice.
- 10. Acceptance:** Agreement effective on signing by both parties.

For ESDO:

Name & Signature: _____
Designation: Convener, Central Procurement Committee
Date: _____

For Contractor:

Name & Signature: _____
Designation: Owner
Date: _____

Witness:

Signature: _____
Designation: _____
Date: _____

Witness:

Signature: _____
Designation: _____
Date: _____



DECLARATION

I, the undersigned, hereby declare that:

1. Neither I nor my company is bankrupt, insolvent, under suspension, or involved in any similar legal proceedings.
2. Neither I nor my company has been convicted of offences related to professional conduct, fraud, corruption, or other illegal activities.
3. We have no record of grave professional misconduct, serious breach of contract, or failure to meet tax or social security obligations.
4. We shall comply with environmental laws of Bangladesh and core labour standards of the ILO (no forced labour, child labour, or discrimination).
5. We guarantee access to financial and registration documents for audit or due diligence checks.

Safeguarding & PSEA Commitment:

We strictly adhere to ESDO's "Zero Tolerance" policy on Sexual Exploitation, Abuse (SEA), and Safeguarding. Neither we nor our employees, staff, or subcontractors shall engage in sexual, physical, or mental harassment. Any incident will be reported immediately to:

☎ Hotline: 01713 149 303 (Procurement)

■ Email: esdo.safeguarding2021@gmail.com

Failure to comply shall constitute grounds for immediate termination of the Agreement.

Signature:

Name: _____

Designation: _____

Company/Agency/Contractor Name: _____

Mobile: _____

