উত্তরণ
UTTARAN

**Ref: Uttaran/tala/2025/145**

# Request for Quotation (RFQ) for Renovation of 10 Formal Evacuation Shelter to Lakshmipur Sadar and Kamal Nagar upazila at Lakshmipur district.

Issue date: September 10,'2025
**Deadline of submission: September 24,2025 before 5.00 pm.**

**FOREWORD**
Uttaran is an NGO working in Bangladesh since 1985 to uphold rights and entitlements and to improve the socio-economic condition of the poor and disadvantaged community people. Uttaran is a people-centered organization using a rights-based approach to alleviate poverty, diversify livelihood opportunities and empower poor communities of Bangladesh.

Objective: UTTARAN is hereby inviting the National Tender for Price Quotation through RFQ following the below items under The Project for the Flood Response and Recovery in Chattogram Division-Lakshmipur District. If your interested to make a business with us, please submit (hard copy) your best price Offer Following the Annex A in your organization's/company's letterhead pad within September 24,2025 before 5.00 PM and enclose this RFQ with that Price Offer enshrining your sign.

## Package 01 Annex A

| Sl. No. | Items Name with Specification | Unit | Qty | Unit price | Total Price |
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| A | **Alignment with the National Cyclone Shelter Policy** | | | | |
| A.1 | **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.<br>Material: Weather-resistant, UV-stabilized polycarbonate and aluminum alloy body.<br>Light Source: High-intensity red LED with a visibility range of at least 2-3 kilometers.<br>Solar Panel Type: Monocrystalline or polycrystalline.<br>Power Output: Minimum 5W to 10W depending on the light's power requirement.<br>Battery: Lithium-ion battery with at least 24 hours of backup (fully charged).<br>Lighting Mode: Steady or flashing (adjustable); Flash rate: 20-60 flashes/min.<br>Ingress Protection: Minimum IP65 for water and dust resistance.<br>Mounting: Steel or aluminum mounting bracket compatible with the rooftop structure.<br>Other Features: Automatic light sensor for dusk-to-dawn operation.<br>All complete as per direction of the IOM E-I-C. | 5.00 | Nos | | |

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| A.2 | **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.<br>Microphone Type: Handheld or goose neck microphone with a noise-canceling feature.<br>Frequency Response: 50 Hz to 15 kHz.<br>Build: Durable, shock-resistant, and weather-resistant.<br>Amplifier:<br>Power Output: Minimum 50W to 100W.<br>Voltage: Compatible with the cyclone shelter's power system (solar backup preferred).<br>Input Ports: Multiple inputs for microphone and auxiliary devices.<br>Siren System Sound Range: Audible at a distance of 1-2 kilometers in open areas.<br>Sound Patterns: Multi-tone options (wailing, steady, pulse) with adjustable volume.<br>Power Source: Solar or AC/DC with a backup battery (minimum 6 hours of runtime).<br>Speakers Type: Outdoor horn speakers with high weather resistance (IP65 minimum).<br>Power Output: Minimum 20W per speaker.<br>Material: Aluminum or ABS body with UV-resistant coating.<br>Accessories: Necessary cables, connectors, and mounts.<br>All complete as per direction of the IOM E-I-C. | 5.00 | Item | | |
| A.3 | 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.<br>Dimensions: Minimum 3 meters in length and 1.5 meters in width for clear visibility or as per drawings<br>Color: High-contrast red paint with a white border (reflective for night visibility).<br>Paint Type: Base Coat Anti-corrosion primer suitable for concrete surfaces.<br>Top Coat: Reflective polyurethane or epoxy paint with UV and weather resistance.<br>Durability: Weatherproof and resistant to rain, sun, and wind for a minimum of 5 years.<br>Surface Preparation: Cleaning, sanding, and priming of the concrete rooftop before painting.<br>Application: Two coats of reflective paint applied with a roller or spray for uniformity.<br>All complete as per direction of the IOM E-I-C. | 5.00 | Nos | | |
| | Sub total | | | | |
| B | Civil Works | | | | |
| B.1 | Preliminary Works | | | | |
| B.1.1 | **Mobilization** with additional scaffolding for repairing RCC slab carnice/drop wall/outer wall etc of two storied building, cleaning site before commencing actual physical work and during contract period and demobilization after | 5.00 | Item | | |

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| | 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 IOM Engineer, where, payments are to be based on ground area determined by the IOM Engineer and be proportionate to the percentage progress of work under contract as a whole in all respects and approved by the IOM Engineer. | | | | |
| B.1.2 | **Sign board with Signage:** Supplying, transport, fitting and Installation of approved best quality country made Mild steel signboard as per drawing, suitable for fitting with R.C.C foundation of signboard including all necessary work as per direction and accepted by the Engineer-in-charge ( E-I-C ) (0.8 sqm) 2000 mm × 1000 mm signboard made of mild steel with a 2 mm thickness M.S. Sheet continuously welded at both sides with MS rectangular hollow box. Rectangular shape 75 mm x 75 mm x 3 mm hollow M.S box in vertical column and 50 mm x 50 mm x 3 mm in horizontal peripheral line using Mild steel . 4nos of 12mm dia Anchor bar welded with column box as per drawing . The MS hollow box column must be installed at least 450 mm deep at the foundation. Reinforce Cement Concrete(R.C.C) foundation (400mm x400mm x200mm) & (250mm x250mm x600mm) as per drawing maintaining minimum cement content relates to mix ratio 1:1.5:3 having minimum f'cr = 24 MPa,maintaining w/c ration 0.45 including satisfying a specified compressive strength f'c= 17 MPa at 28 days on standard cylinders as per standard practice of Code ACI/BNBC/ASTM, cement conforming to BDS EN-197-1-CEM-I, 52.5N (52.5 MPa) / ASTM-C 150 Type – I, best quality sand [50% quantity of best local sand (F.M. 1.2) and 50% quantity of Sylhet sand or coarse sand of equivalent F.M. 2.2] and 20 mm down well graded picked stone chips conforming to ASTM C-33 including breaking chips and screening, making and placing shutter in position maintaining true to plumb, making shutter water-tight properly, placing reinforcement in position; mixing in standard mixer machine with hopper fed by standard measuring boxes or mixing in batching plant, casting in forms, compacting by vibrator machine and curing at least for 28 days, removing centering-shuttering after specified time approved; including cost of water, electricity, testing charges of materials and cylinders as required, other charges etc. all complete, approved and accepted by the Engineer-in-charge (E-I-C). (Rate is including the cost of dismantling existing concrete where required, cleaning and shifting debris etc.) for any types of components at anywhere as per direction of EIC. One layer (125 mm thickness) Brick flat Soling using 1st class brick at | 5.00 | Item | | |

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| | foundation level (400 mm x 400 mm) (0.16 sqm). Use 12mm deformed bar 200mm c/c at footing and 4 nos of 12mm Dia deformed bar at RCC column & 10mm Dia stirrup 150mm c/c as per drawing. Clean properly the MS sheet, hollow box and the base plate to remove the dust and apply one coat of anti corrosive paint and 2 coats of dark blue (IOM official ) synthetic enamel paint (RGB 0/51/160, HEX#0033A0, CMYK 100/80/3/2, PANTONE 286C) on the surface.<br><br>Supply, transport and installation of 2 nos of best quality reflective sticker (hexagonal pattern) Size of the sticker is 1000 x 800 mm. A sample of the sticker paper must be provided to E-I-C for approval. Layout of sticker and exact location of the signboard will be provided by IOM | | | | |
| B.2 | Structural Works | | | | |
| B .2.1 | **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. | 2.31 | Cu.M. | | |
| B.2.2 | **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, tieing 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. | 50.00 | kg | | |
| B.2.3 | **Plaster Repair:** 12mm thick cement plaster (1:3) on RCC/masonry surface with on the areas of beam, Column, | 914.00 | Sq. m. | | |

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| | slab, lintel, carnice, parapet wall, sofit 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 masonry water tank platering with NCF and water proofing additive. | | | | |
| B.2.4 | **Water profing on the roof slab:** Chipping the roof surface using a claw hammer and thoroughly cleaning with flushing water. Provide a 50mm (±) layer of patent stone over the existing roof. Apply ISO-certified waterproofing chemical on the roof slab, ensuring proper slope with the patent stone layer as required. Apply two coats of water-resistant barrier in horizontal and vertical directions over a primer layer of ISO-certified bonding latex. Finish with two coats of flexible roofing compound in the specified color (green). After completing the waterproofing works, ensure the roof surface has a smooth slope, uniform color, and proper water runoff. All works include surface preparation, removal of existing render in panels where necessary, cleaning, and washing of the top portion of the slab. Complete all works as per the direction of the Engineer-in-Charge (E-I-C). | 195.00 | Sq. m. | | |
| B.2.5 | **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) | 583.00 | Sq. M. | | |
| | Sub total | | | | |
| **B.3** | **Ground Floor Development Works** | | | | |
| B.3.1 | **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) | 280.00 | Sq. M. | | |
| | **Sub Total** | | | | |
| **B.4** | **Door, Window, Grill Repair Works** | | | | |
| B.4.1 | **Window glass Repair:** Replacing damaged or unserviceable or broken glasses by supplying, fitting, fixing of 5 mm best quality clear glass of the window including all necessary hardware etc. all complete as per specification and acceptance of E-I-C. | 35.63 | sqm | | |
| B.4.2 | **Window repair: Window repair:** Repair metal swing frame window shutters by replacing corroded GI sections and existing polycarbonate sheets. Replace existing MS/GI sections (3mm thick, 19mm wide) and divide the shutter frame into three equal parts, providing the upper part with 5mm transparent polycarbonate sheet vertically in each shutter. Include fabrication, welding, installation, electricity, workshop charges, transportation, and fixing with MS | 186.28 | sqm | | |

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| | clamps or steel bolts into walls/RCC members. Apply window sealing with plaster, followed by two coats of ISO-certified anti-corrosive primer and two coats of enamel paint. Complete all works as per the direction of the Engineer-in-Charge (E-I-C) | | | | |
| B.4.3 | **Window Grill repair:** Repairing of existing window grills any where directed made of Galvanized MS flat bar 40mmx6mm @100mm c/c vertically fitted with 2 nos Horizontally Galvanized MS flat bar (40mmx6mm) @ 450mm c/c maximum, in/c. removing rust, brushing, polishing, fabricating, welding of each point, riveting if necessary, cost of electricity, workshop charge, carriage, fixing with Galvanized MS clamps or steel royal bolt in walls/RCC member and painting with two coats of synthetic enamel paint over a coat of anticorrosive priming for all floors etc. all complete as per direction of the E-I-C. | 63.00 | Sq.M. | | |
| B.4.4 | **Minor Wooden door repair (2.1mX1m):** Repair the existing wooden door, including lock rail (100mm × 38mm), top rail (125mm × 38mm), and bottom rail (225mm × 38mm). Provide 25mm thick paneling (one side raised) and install six hinges (100mm), two tower and socket bolts (12mm dia, 300mm and 225mm long), heavy-duty handles, hinge cleats, buffer blocks, and other necessary fittings. Sand all surfaces for smooth finishing. All wood sizes are properly finished, using quality hardwood (e.g., Jack wood). **Include installation of a heavy-duty padlock (60mm) for each door**. Complete all works as per the direction of the Engineer-in-Charge (E-I-C). | 27.00 | nos | | |
| B.4.5 | **Grill with Grill door at 1st floor:** Supply, fabricate, fit, and fix protection grill doors and grills at locations as directed by the Engineer. Construct the grill using 10mm galvanized MS square solid bars, spaced horizontally at 112mm c/c and vertically at 262mm c/c, with a galvanized MS outer frame flat bar (25mm × 5mm). Fix the grill with galvanized MS clamps or steel bolts into walls/RCC members as per approved design and drawings. Include fabrication, welding, electricity, workshop charges, transportation, and painting: two coats of synthetic enamel paint over one coat of ISO-certified anti-corrosive primer. Install a **heavy-duty padlock (60mm)** for the main entry. Complete all works for all floors as per the direction of the Engineer-in-Charge (E-I-C). | 27.40 | Sq.M. | | |
| B.4.6 | **Hand rail repair:** 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 | 352.67 | Sq.M. | | |

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| B.4.7 | **Minor Repairing existing collapsible gate** (2.7 m x 2.6m) at 1st/2nd floors including removing, refixing, changing wheels, bottom rail, welding etc all complete as required to making smooth sliding as per direction of E-I-C | 16.00 | nos | | |
| B.4.8 | **MS Door Repair:** 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 for each door | 35.00 | nos | | |
| B.4.9 | Supplying fitting and fixing of **Galvanized MS steel door** (2100mm X900mm) shutter for toilets main door with 18 BWG Galvanized MS sheet/plain plate hinged to RCC columns/brick wall reinforcement with 38mmx38mmx5mm Galvanized MS Angle and 25mmx6mm flat bar stiffener with 38mmX38mmX6mm frame, one coat anticorrosive and two coat enamel paint, welding, carrying etc. all complete as per drawing and direction of E-I-C. | 1.00 | Nos | | |
| | Sub Total | | | | |
| **B.5** | **Painting Works** | | | | |
| B.5.1 | **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 color 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 Coats. 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. | 4,485.00 | Sq. M. | | |
| B.5.2 | **Weather coat exterior paint:** applying exterior paint on outside wall surface as per manufacturer instruction | | Sq. M. | | |

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| | 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. | 2,434.00 | | | |
| B.5.3 | **French spirit polishing to door with frame:** Door frames, shutters or any type of wood works in three coats over a coat of priming. Applying one vertical and one horizontal coat for each coat and successive coat is to be applied after drying up of previous coat in/c scraping, 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. | 2.27 | Sq. M | | |
| B.5.4 | **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 . | 57.10 | Sq. m. | | |
| B.5.5 | **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 . | 487.92 | Sq. m. | | |
| B.5.6 | **Class Room Art:** Prepare the surface by removing rust and apply existing learning photo etc all complete as per Direction of E-I-C . | 2.00 | Item | | |
| | **Sub Total** | | | | |
| C | Water Supply and Sanitation Facility works | | | | |
| C.1 | **Sand (FM 0.50) filling** in floor of toilet in the 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. | 1.50 | cum | | |
| C.2 | **75mm thick lean cement concrete** (1:2:4) under wall foundation, ramp for toilet and floor for wash block and wherever needed with Portland Composite Cement (CEM | 2.00 | Sq. m. | | |

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| | 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. | | | | |
| C.3 | **Brick work** with 1st class bricks in cement mortar (1:4) in foundation and plinth with Portland Composite cement (CEM II/AM, 42.5N) and best quality sand (minimum FM1.2), filling the interstices tightly with mortar, raking out joints, cleaning and soaking 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. | 0.25 | cum | | |
| C.4 | **125mm brick work** with 1st 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 | 2.00 | Sq. m. | | |
| C.5 | **Minimum 12mm thick cement plaster** (1:4) [Sand FM 1.2] in wall and up to 150mm below ground level of walls, sofit plastering, neat cement finishing for skirting 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. | 3.00 | Sq. m. | | |
| C.6 | Supplying, fitting and fixing 200x300mm 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. . | 26.75 | Sq. m. | | |
| C.7 | 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. | 23.00 | Sq. m. | | |
| C.8 | Supply and fix approved quality **ceramic squatting flat pan** with high level PVC cistern. Rate shall include for necessary waste and cold water plumbing connections, stop valve for cistern, flush pipe etc. | 12.00 | Nos. | | |
| C.9 | **SS Grab Bars:** Supplying, fitting and fixing SS Grab bar with 38mm dia of 1.8mm thick SS pipe, 900mm height with 38mm dia 1.8mm thick vertical post @ 1200mm c/c, baseplate to fix with wall and slab through royal bolt/anchor bolt and mending damages with Cement Concrete (1:2:4) in/c polishing/painting etc. All to be completed as per direction of the E-I-C. Wall guard rail for disable people with 38mm dia pipe, base plate for fixing with wall etc as per design and specification as per direction of Engineer | 6.00 | Nos. | | |

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| C.10 | Supply and fix approved quality **ceramic wash basin with pedestal**. Rate shall include for necessary metal CP pillar cock, stop valve, stop valve for cistern, flush pipe, bottle trap, waste plug and cold water plumbing connections etc. | 8.00 | Nos. | | |
| C.11 | Supply and fix 1/2" diameter brass or CP bib tap liver type | 32.00 | Nos. | | |
| C.12 | Supply and fix 400x600mm bevelled edge mirror | 12.00 | Nos. | | |
| C.13 | Supply and fix 20mm diameter Type 1000 UPVC pipe for water supply. Rate shall include for all necessary fittings and specials, embedding to the wall plaster and necessary connection to the main supply. | 70.00 | L. M | | |
| C.14 | 1.2mm thick SS Soap case including fittings, fixing etc all complete | 30.00 | Nos. | | |
| C.15 | SS Paper holder including fittings and fixing etc all complete | 30.00 | Nos. | | |
| C.16 | Construction of 150x150mm **catch pit** with stainless steel grating. Rate shall include for necessary waste pipe connections. | 8.00 | Nos. | | |
| C.17 | Construction of 300x300mm, 300mm deep waste water manhole with 125mm thick brick work and finish smoot with 1:3 cement sand plaster and including RCC cover, Rate shall include for necessary waste pipe connections. | 8.00 | Nos. | | |
| C.18 | Supplying, fitting and fixing of 100 mm inside diameter & wall thickness 2.7 mm - 3.4 mm best quality uPVC **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. | 74.00 | L.m | | |
| C.19 | **Commode:** Supplying, fitting and fixing of European type country made best quality glazed porcelain combi closet (two piece), including plastic seat cover with soft closing ,cistern system, water consumption 6 litre, siphon wash down/siphon jet single or dual flushinging system which reduce water consumption, hygienic glaze in toilet bowl ,glaze in inner waste line, round bowl, outlet range 280~305 mm. The sanitary ware shall conform BDS1162:2014. The glaze shall be thoroughly fused to body. The minimum thickness of body at any section shall be 5 mm. When assembled together and when examined from a distance of 60 cm, the outer surface shall not show to the unaided eye, blemishes or defects in excess of those listed in BDS standard. The mean value of water absorption shall not be greater than 0.5% of the ware when dry. When tested with chemical solutions (Acetic acid, Citric acid, Detergent, Hydrochloric acid, Sodium hydroxide, Sodium stearate and Sulfuric acid of various strength) as per BDS1162:2014 procedure, none of the test pieces should | 7.00 | Nos. | | |

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| | suffer any loss of reflectivity on the glaze. There shall be no crazing and no stain on the ware. The materials used for making glaze shall not contain lead compound. In case of certain coloring oxides used for making colored glaze, the lead content, if any, shall not exceed 5 percent of the weight of the glaze materials. Appliances shall be clearly and indelibly marked at a prominent place, visible even after the appliances are installed with the following: a) manufacturer's name and/or registered trademark, b) the number of Bangladesh standard and c) country of origin. Each product shall also be marked with the BSTI Certification Mark. The fixure should be placed in position preparing the base with cement concrete and with wire mesh or rods if necessary, in all floors including making holes wherever required and mending good the damages and fitting, fixing, finishing, complete with all necessary fittings and connection approved and accepted by the Engineer- in- charge. 7.01.1 Approx. 670~690 X 360~ 362 mm size, minimum 27.5 kg of weight; Equivalent to ISO-certified porcelain sanitary ware from authorized manufacturers. | | | | |
| C.20 | Supply, Fitting & Fixing Piller cock | 13.00 | Nos. | | |
| C.21 | Supply, Fitting & Fixing Angle Stop Cock | 12.00 | Nos. | | |
| C.22 | Supply, Fitting & Fixing Connection Pipe | 11.00 | Nos. | | |
| C.23 | Supply, Fitting & Fixing Vent Cowl 4" | 10.00 | Nos. | | |
| C.24 | Supply, Fitting & Fixing Hand Push | 7.00 | Nos. | | |
| C.25 | vixol 500ml | 20.00 | Nos. | | |
| C.26 | Harpic 500 ml | 36.00 | Nos. | | |
| C.27 | Plastic hand brush | 36.00 | Nos. | | |
| C.28 | Hand gloves | 20.00 | Set | | |
| C.29 | Septic tank desludging | 10.00 | Nos. | | |
| C.30 | **Pump motor:** CENTRIFUGAL PUMP MOTOR SETSINGLE STAGE ( SINGLE PHASE )(For lower capacity/smaller household requirement) Providing of single stage 2800-2900 RPM monoblock type Centrifugal water pump motor set ( reservoir to overhead tank) manufactured according to relevant BDS standard and ISO 9906:2012, GRADE 3B/ DIN/ NEMA/ IEC/ BS/ VDE/ JIS/CEI 2-3/ CSA/ GS/ SONCAP/ ROHS & ISO 9001 | 1.00 | Nos. | | |

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| | (Quality) ISO 14001 (Environment and Safety) standard of following capacity suitable for operation at single phase, 230 V ± 5 %, 50 Hz AC having insulation: B & protection: IPX4 (minimum) & CE certified . Country of Manufacture: Bangladesh/ China/ Vietnam/ Malaysia as per sample accepted / approved by the Engineer-in-charge. HP-1Discharge (liter/min)- 10-100Head (meter)- 35-16Suction dia (mm)- 25Delivery dia (mm)- 25 | | | | |
| | Sub total | | | | |
| D | Electrical Works with Fittings | | | | |
| D.1 | **MDB/SDB:** Supplying, assembling, fitting, fixing & installation (with surface/concelled electric wiring for effictive 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 | 5.00 | Nos. | | |
| D.2 | **Switch board:** 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. | 50.00 | Nos | | |
| D.3 | **Power Socket**: Supplying, assembling, fitting, fixing & installation (with effective connection) of 250 volts single phase 3-pin socket outlet foreign made brand as per sample and approval by E-I-C. all complete as per drawings and directions of the E-I-C. | | | | |
| | 2 pin 5A Socket (S1) | 30.00 | Nos | | |
| | 3-Pin 15A Socket (P) | 34.00 | Nos | | |
| D.4 | **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, gang switches 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. Use ISO Certified products. | 46.00 | Nos. | | |
| D.5 | **Security Light:** Supplying, assembling, fitting, fixing, installation (with effictive 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 | 8.00 | Nos | | |

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| D.6 | **Caged LED light:** Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning 20W LED ceiling mounted lamp with metal cage with separate gang switch as per direction and sample approved by E-I-C. Minimum one year manufacturer warrantee | 21.00 | Nos. | | |
| D.7 | **LED light:** Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning 20W LED wall mounted lamp,with separate gang switch and holder as per direction and sample approved by E-I-C. Minimum one year manufacturer warrantee | 136.00 | Nos. | | |
| D.8 | **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. | | | | |
| | 1c-2x2.5 sqmm (BYA ) Cable with 2.5 sqmm (BYA) ECC wire through<br>PVC Pipe of 25 mm inner dia. | 750.00 | m | | |
| | 1c-2x1.5 sqmm (BYA ) Cable with 1.5 sqmm (BYA) ECC wire through<br>PVC Pipe of 25 mm inner dia. | 405.00 | m | | |
| D.9 | **Earthing system:** Supply & installation (with effictive 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. | 5.00 | Nos. | | |
| | Sub total | | | | |
| E | Access Development Works | | | | |
| E.1 | **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. | 4.95 | cum | | |
| E.2 | **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. | 1.87 | cum | | |

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| E.3 | **SBFS: Single layer brick flat soling in floor** with 1st class or picked bricks, true to level, camber/super elevation and grade including carrying bricks, filling the interstices tightly with sand of minimum FM 0.80, etc. all complete as per direction of the E-I-C. | 2.20 | Sq. m. | | |
| E.4 | **SHBB(FM-0.50):** Providing Brick on edge pavement in single layer of Herring Bone Bond (HBB) with 1st class or picked bricks true to level, maintaining camber, super elevation and grade, **including supplying and laying 25mm thick sand (FM 0.80) cushion over the BFS,** filling the interstices tightly with same type of sand, etc. all complete in all respect as per approved drawing, specification and direction of the Engineer-in-charge. | 30.00 | Sq. m. | | |
| E.5 | **Brick on end edging** (125mm across) with 1st class/picked bricks including cutting trenches true to level & grade, removing earth, re-filling & ramming the sides properly, including supplying and filling the gaps with local sand, etc. all complete as per direction of the E-I-C. | 48.78 | L.M. | | |
| E.6 | **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. | 2.20 | Sq. m. | | |
| E.7 | **Providing single layer polythene sheet** (0.18mm thick) weighing one kilogram per 6.5 square meter in floor or anywhere in ground floor underneath the BFS, etc. all complete as per specifications and direction of the E-I-C. | 2.20 | Sq. m. | | |
| | Sub Total | | | | |
| F | Solar Power System Installation | | | | |
| F.1 | **Solar Panel - The nominal power of a single PV module shall be 500Wp** Supply, fitting, fixing, and testing of Tier-1 category Solar PV module of mono crystalline, half-cell type with junction box IP68 and 3 diodes. The Solar PV module/panel shall be in conformity with the requirements of **IEC 61215, IEC 61730, ISO 9001:2015, ISO 14001:2015, and ISO 45001:2018** standards. Necessary catalogue, operation & maintenance manual, and manufacturer authorization letter need to be provided by the contractor. The average efficiency shall be greater than 20%, with a performance warranty of more than 90% at 12 years and more than 80% at 25 years. The modules shall be Tier-1 category, ISO-certified, high-quality, and bankable to ensure reliable performance and long-term durability. | 15.00 | KW | | |
| F.2 | **PV Mounting Structure:** Supply, cutting, welding, fitting, fixing with accessories. PV Modules will be installed on top of a 3 story building. The Mounting poles shall be made of 75mm hot-dip GI pipe with minimum | 15.00 | KW | | |

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| | 4mm thickness. The poles shall be bolted to be RCC structure by using 200mmx200mm base plate of 4mm thickness followed by 300x300x300 mm CC Casting with plastering and painting works. The drilled/bolted area shall be properly sealed with epoxy coating for water leakage prevention. | | | | |
| F.3 | Supply, fitting, fixing, testing and commissioning of **Solar Off-grid Inverter** protected from lightning induced current by surge protective device of adequate rating both in DC and AC side in parallel at the entry and exit terminal of the inverter. The inverter shall also be protected from overload and overcurrent from both DC and AC side. The inverter shall be tested and certified by UL/ VDC/ VDE/ ETL in accordance with the requirement of the relevant IEC standards and shall have authentication to use CE, TUV and UL logo. Features shall include local monitoring with wifi dongle, intelligent features such as bill saver mode operation and grid priority mode operation, remote/wired inverter ON/OFF, communication ports RS485. Specification of the inverter shall be as follows:Output power (continuours)at 40 deg C: **4000VA/4000W**, Overload for **60sec/15min: 6000W** Surge rating for 10 sec: 35A, Output Voltage wave-form: Pure sine wave, Output Voltage: 230VAC, 50 Hz, 1-Ph, Inverter Efficiency at peak: >90%, Total harmonic distortion:<5%, Operating Temperature: 5-50 deg C, Relative Humidity: 5-95%, Display: LCD, Charger current setting: configurable, Regulatory approval: IEC62109-1, IEC 62040-2, Certification: CE, RoHS, SONCAP, The modules shall be ISO-certified. **Warranty: Minimum 2 years.** | 5.00 | Nos | | |
| F.4 | **Solar Battery:** Supply, installation (with effective connection), testing & commissioning of Solar battery with nominal **voltage,12V,130AH** or above @10HR or equivalent Deep Cycle heavy duty industrial type Lead Acid battery, positive plate : Tubular or solid thicker Plate, negative plate: Pasted float, Electrolyte Dilute Sulfuric Acid, specially suitable for Solar system. The term "Solar" must be engraved at the body of Battery. The modules shall be ISO-certified. **Warrenty: At least 05 yrs.** Life Cycle: At least 2500 @ 50% DOD | 40.00 | Nos | | |
| F.5 | **Battery Rack:** Supply, cutting, welding, fitting and fixing battery rack for solar battery storage. The rack shall the customized according to site requirements and best utilization of space, material shall be Galvanized MS angle of minimum thickness 3mm. Finally the entire rack shall be protected by fixing PVC fencing around it. | 5.00 | Set | | |
| F.6 | **Solar Array Junction Box:** Supply, fitting, fixing of Solar AJB made of 18 SWG MS Sheet with hinged type door and locking arrangement complete with necessary SPD and DC circuit breaker of adequate rating based on PV connection and duly painted with powder coating with epoxy polyester resin on all surfaces of board (grey/off-white). | 5.00 | Set | | |

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| F.7 | **AC Combiner Box- ACCB:** Supply, fitting, fixing of AC Combiner Box made of 18 SWG MS Sheet with hinged type door and locking arrangement complete with necessary SPD and DC circuit breaker of adequate rating based on PV connection and duly painted with powder coating with epoxy polyester resin on all surfaces of board (grey/off-white). | 5.00 | Set | | |
| F.8 | **Battery Junction Box:** Supply, assembling, fitting, fixing of Battery Junction box complete with DC Circuit breakers for connection between JB to MPPT charge controller (quantity as per system requirements) 2P DC MCB for connection to inverter I/O to battery junction box (quantity as per system requirements), DC bus-bar and 200A fuse. | 5.00 | Set | | |
| F.9 | **Cables:** Supply and fitting, fixing cables for solar cables of following sizes with necessary accessories such as PVC Channel/flexible pipes, cable tie, PVC tape, Copper lugs, connector etc. All cables shall be manufactured and tested according to IEC/BS/VDE standards. The work shall be carried out as per direction/approval of the engineer in-charge. | - | | | |
| F.10 | For String Wiring: 1Cx1-6RM NYYF Cable | 500.00 | Meter | | |
| F.11 | For AJB to Charge Controller Wiring: 1x1C-16RM NYYF Cable | 150.00 | Meter | | |
| F.12 | For Charge Controller to Battery and Battery to Inverter: 1x1C-25RM NYY Cable | 250.00 | Meter | | |
| F.13 | For Load Wiring: 1x1C-6RM BYM Cable | 350.00 | Meter | | |
| F.14 | Earthing Cable: 1x1C-4RM BYA ECC | 225.00 | Meter | | |
| F.15 | Earthing Cable: 1x1C-10RM BYA ECC | 200.00 | Meter | | |
| F.16 | Earthing and Protection: 12mm Copper conductor, 40-60 feet boring (Solar Panel and other equipment), lightning arrestor, necessary clamp, nut-bolts, earthing rod; earth resistance must be less than 5 ohms. | 5.00 | Set | | |
| F.17 | Supply and installation of 63A compact type best quality single phase manual change over switch with rotary type handle and 3 position (1-0-2) controlling. Recommended ISO certified products. | 10.00 | Nos | | |
| | Sub Total | | | | |
| | Grand Total (A+B+C+D+E+F) | | | | |

## Package 02

| Sl. No. | Items Name with Specification | Unit | Qty | Unit price | Total Price |
|---|---|---|---|---|---|
| A | **Alignment with the National Cyclone Shelter Policy** | | | | |
| A.1 | **Rooftop Red Marking Signal Light :** Supplying, fitting and fixing signal red light **t**o ensure the shelter is visible during disasters, especially at night and in poor weather | 5.00 | Nos | | |

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| | conditions.Type: LED-based solar-powered aviation warning light.<br>Material: Weather-resistant, UV-stabilized polycarbonate and aluminum alloy body.<br>Light Source: High-intensity red LED with a visibility range of at least 2-3 kilometers.<br>Solar Panel Type: Monocrystalline or polycrystalline.<br>Power Output: Minimum 5W to 10W depending on the light's power requirement.<br>Battery: Lithium-ion battery with at least 24 hours of backup (fully charged).<br>Lighting Mode: Steady or flashing (adjustable); Flash rate: 20-60 flashes/min.<br>Ingress Protection: Minimum IP65 for water and dust resistance.<br>Mounting: Steel or aluminum mounting bracket compatible with the rooftop structure.<br>Other Features: Automatic light sensor for dusk-to-dawn operation.<br>All complete as per direction of the IOM E-I-C. | | | | |
| A.2 | **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.<br>Microphone Type: Handheld or gooseneck microphone with a noise-canceling feature.<br>Frequency Response: 50 Hz to 15 kHz.<br>Build: Durable, shock-resistant, and weather-resistant.<br>Amplifier:<br>Power Output: Minimum 50W to 100W.<br>Voltage: Compatible with the cyclone shelter's power system (solar backup preferred).<br>Input Ports: Multiple inputs for microphone and auxiliary devices.<br>Siren System Sound Range: Audible at a distance of 1-2 kilometers in open areas.<br>Sound Patterns: Multi-tone options (wailing, steady, pulse) with adjustable volume.<br>Power Source: Solar or AC/DC with a backup battery (minimum 6 hours of runtime).<br>Speakers Type: Outdoor horn speakers with high weather resistance (IP65 minimum).<br>Power Output: Minimum 20W per speaker.<br>Material: Aluminum or ABS body with UV-resistant coating.<br>Accessories: Necessary cables, connectors, and mounts.<br>All complete as per direction of the IOM E-I-C. | 5.00 | Item | | |
| A.3 | **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.<br>Dimensions: Minimum 3 meters in length and 1.5 meters in width for clear visibility or as per drawings<br>Color: High-contrast red paint with a white border (reflective for night visibility).<br>Paint Type: Base Coat Anti-corrosion primer suitable for | 5.00 | Nos | | |

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| | concrete surfaces.<br>Top Coat: Reflective polyurethane or epoxy paint with UV and weather resistance.<br>Durability: Weatherproof and resistant to rain, sun, and wind for a minimum of 5 years.<br>Surface Preparation: Cleaning, sanding, and priming of the concrete rooftop before painting.<br>Application: Two coats of reflective paint applied with a roller or spray for uniformity.<br>All complete as per direction of the IOM E-I-C. | | | | |
| | Sub total | | | | |
| B | Civil Works | | | | |
| B.1 | Preliminary Works | | | | |
| B.1.1 | **Mobilization** with additional scaffolding for repairing RCC slab carnice/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 IOM Engineer, where, payments are to be based on ground area determined by the IOM Engineer and be proportionate to the percentage progress of work under contract as a whole in all respects and approved by the IOM Engineer. | 5.00 | Item | | |
| B.1.2 | **Sign board with Signage:** Supplying, transport, fitting and Installation of approved best quality country made Mild steel signboard as per drawing, suitable for fitting with R.C.C foundation of signboard including all necessary work as per direction and accepted by the Engineer-in-charge ( E-I-C ) (0.8 sqm) 2000 mm × 1000 mm signboard made of mild steel with a 2 mm thickness M.S. Sheet continuously welded at both sides with MS rectangular hollow box. Rectangular shape 75 mm x 75 mm x 3 mm hollow M.S box in vertical column and 50 mm x 50 mm x 3 mm in horizontal peripheral line using Mild steel . 4nos of 12mm dia Anchor bar welded with column box as per drawing . The MS hollow box column must be installed at least 450 mm deep at the foundation. Reinforce Cement Concrete(R.C.C) foundation (400mm x400mm x200mm) & (250mm x250mm x600mm) as per drawing maintaining minimum cement content relates to mix ratio 1:1.5:3 having minimum f'cr = 24 MPa,maintaining w/c ration 0.45 including satisfying a specified compressive strength f'c= 17 MPa at 28 days on standard cylinders as per standard practice of Code ACI/BNBC/ASTM, cement conforming to BDS EN-197-1-CEM-I, 52.5N (52.5 MPa) / ASTM-C 150 Type – I, best quality sand [50% quantity of best local sand (F.M. 1.2) | 5.00 | Item | | |

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| | and 50% quantity of Sylhet sand or coarse sand of equivalent F.M. 2.2] and 20 mm down well graded picked stone chips conforming to ASTM C-33 including breaking chips and screening, making and placing shutter in position maintaining true to plumb, making shutter water-tight properly, placing reinforcement in position; mixing in standard mixer machine with hopper fed by standard measuring boxes or mixing in batching plant, casting in forms, compacting by vibrator machine and curing at least for 28 days, removing centering-shuttering after specified time approved; including cost of water, electricity, testing charges of materials and cylinders as required, other charges etc. all complete, approved and accepted by the Engineer-in-charge (E-I-C). (Rate is including the cost of dismantling existing concrete where required, cleaning and shifting debris etc.) for any types of components at anywhere as per direction of EIC. One layer (125 mm thickness) Brick flat Soling using 1st class brick at foundation level (400 mm x 400 mm) (0.16 sqm). Use 12mm deformed bar 200mm c/c at footing and 4 nos of 12mm Dia deformed bar at RCC column & 10mm Dia stirrup 150mm c/c as per drawing. Clean properly the MS sheet, hollow box and the base plate to remove the dust and apply one coat of anti corrosive paint and 2 coats of dark blue (IOM official ) synthetic enamel paint (RGB 0/51/160, HEX#0033A0, CMYK 100/80/3/2, PANTONE 286C) on the surface.<br><br>Supply, transport and installation of 2 nos of best quality reflective sticker (hexagonal pattern) Size of the sticker is 1000 x 800 mm. A sample of the sticker paper must be provided to E-I-C for approval. Layout of sticker and exact location of the signboard will be provided by IOM | | | | |
| | Sub total | | | | |
| **B.2** | **Structural Works** | | | | |
| B.2.1 | **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 | 7.40 | Cu.M. | | |

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| | materials, labour and carrying etc all complete as per direction of IOM Engineer-in-Charge. | | | | |
| B.2.2 | **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, tieing 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. | 155.00 | kg | | |
| B.2.3 | **Plaster Repair:** 12mm thick cement plaster (1:3) on RCC/masonry surface with on the areas of beam, Column, slab, lintel, carnice, parapet wall, sofit 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 masonry water tank platering with NCF and water proofing additive. | 1,556.29 | Sq. m. | | |
| B.2.4 | **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) | 479.10 | Sq. M. | | |
| | Sub total | | | | |
| **B.3** | **Ground Floor Development Works** | | | | |
| B.3.1 | **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) | 1,070.00 | Sq. M. | | |
| B.3.2 | **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. | 6.77 | cum | | |
| B.3.3 | **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 | 1.19 | cum | | |

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| | 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 | **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. | 89.00 | sqm | | |
| B.3.5 | **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, tieing 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 | 120.00 | kg | | |
| B.3.6 | **Earth filling :** The earth filling works in both sides of drain/road with suitable dredged soil (sandy clay/silty clay/silt but excluding organic material), collected from silt-up river/canal bed by dredging with appropriate local dredger, including carrying through pipe or any other suitable means, loading, unloading and filling gradually at the right place of filling area in an artificial silt up manner at a suitable height and distance, including leveling, dressing and all necessary arrangements to fill-up soil and compacting to 95% minimum dry density at optimum moisture content with reference to laboratory density test AASHTO modified hammer with suitable equipment dressing etc. complete in all respect as per direction of the Engineer-in-charge. | 4.00 | Cu.m | | |
| | Sub total | | | | |
| **B.4** | **Door, Window, Grill Repair Works** | | | | |
| B.4.1 | **Window glass Repair:** Replacing damaged or unserviceable or broken glasses by supplying, fitting, fixing of 5 mm best quality clear glass of the window including all necessary hardware etc. all complete as per specification and acceptance of E-I-C. | 8.00 | sqm | | |

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| B.4.2 | **Window repair:** Repair metal swing frame window shutters by replacing corroded GI sections and existing polycarbonate sheets. Replace existing MS/GI sections (3mm thick, 19mm wide) and divide the shutter frame into three equal parts, providing the upper part with 5mm transparent polycarbonate sheet vertically in each shutter. Include fabrication, welding, installation, electricity, workshop charges, transportation, and fixing with MS clamps or steel bolts into walls/RCC members. Apply window sealing with plaster, followed by two coats of ISO-certified anti-corrosive primer and two coats of enamel paint. Complete all works as per the direction of the Engineer-in-Charge (E-I-C) | 110.78 | sqm | | |
| B.4.3 | **Window Grill repair:** Repairing of existing window grills any where directed made of Galvanized MS flat bar 40mmx6mm @100mm c/c vertically fitted with 2 nos Horizontally Galvanized MS flat bar (40mmx6mm) @ 450mm c/c maximum, in/c. removing rust, brushing, polishing, fabricating, welding of each point, riveting if necessary, cost of electricity, workshop charge, carriage, fixing with Galvanized MS clamps or steel royal bolt in walls/RCC member and painting with two coats of synthetic enamel paint over a coat of anticorrosive priming for all floors etc. all complete as per direction of the E-I-C. | 82.73 | Sq.M. | | |
| B.4.4 | **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 for each door | 23.00 | nos | | |
| B.4.5 | **Grill with Grill door at 1st floor:** Supplying, fitting and fixing protection grill door and grill at anywhere as directed by the Engineer; making the grill with 10mm Galvanized MS square solid bar series horizontally @ 112mm c/c, vertically 262mm c/c respectively with Galvanized MS outer frame flat bar 25mmx5mm fixing the grill with Galvanized MS clamp or Steel royal bolt in walls/RCC member as per approved design and drawing for all floors in/c fabricating, welding, cost of electricity, workshop charge, carriage, Painting with two coats of synthetic enamel paint over a coat of anticorrosive priming etc. all complete for all floor as per direction of the E-I-C. The rate includes a Heavy Security 60mm Pad Lock for main entry | 18.80 | Sq.M. | | |
| B.4.6 | **Minor Repairing existing collapsible gate** (2.7 m x 2.6m) at 1st/2nd floors including removing, refixing, changing wheels, bottom rail, welding etc all complete as | 16.00 | nos | | |

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| | required to making smooth sliding as per direction of E-I-C | | | | |
| B.4.7 | **MS Door Repair:** 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 for each door. | 20.00 | nos | | |
| | Sub total | | | | |
| **B.5** | **Painting Works** | | | | |
| B.5.1 | **Plastic emulsion paint on internal wall:** Apply plastic emulsion paint (damp guard) on interior surfaces, including ceilings, slabs, beams, columns, and walls, using ISO-certified products from authorized manufacturers. Prepare the surface by rubbing, removing damp/algae/existing paint, and performing minor repairs to walls or RCC surfaces if required. Wash and clean the surface thoroughly.<br><br>Apply a priming coat of ISO-certified water sealer, followed by **two coats of ready-mixed putty** (ISO-certified) for smooth finishing. Sandpaper the surface between coats to ensure uniformity. Apply three coats of plastic emulsion paint: the first coat in a vertical direction and the successive coat in a horizontal direction, using brush, roller, or spray as per standard procedure. Allow proper drying between successive coats.<br><br>Include cleaning of plinths, floors, doors, windows, ventilators, scaffolding, and all associated works. Complete all works as per the direction of the Engineer-in-Charge (E-I-C). | 3,666.00 | Sq. M. | | |
| B.5.2 | **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. | 2,100.00 | Sq. M. | | |

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| B.5.3 | **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 . | 71.83 | Sq. m. | | |
| B.5.4 | **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, mechnical wire brush, masking tape, sand papers putty require for surface preparation and scaffolding etc all complete as per Direction of E-I-C . | 488.80 | Sq. m. | | |
| B.5.5 | **Class Room Art:** Prepare the surface by removing rust and apply existing learning photo etc all complete as per Direction of E-I-C . | 2.00 | Item | | |
| | Sub Total | | | | |
| C | Water Supply and Sanitation Facility works | | | | |
| C.1 | **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. | 34.55 | cum | | |
| C.2 | **Sand (FM 0.50) filling** in floor of toilet in the 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. | 5.92 | cum | | |
| C.3 | **75mm thick lean cement concrete** (1:2:4) under wall foundation, ramp for toilet and floor for wash block 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. | 7.25 | Sq. m. | | |
| C.4 | **Providing single layer polythene sheet** (0.18mm thick) weighing one kilogram per 6.5 square meter in floor or anywhere in ground floor underneath the BFS, etc. all complete as per specifications and direction of the E-I-C. | 7.25 | Sq. m. | | |
| C.5 | **Brick work** with 1st class bricks in cement mortar (1:4) in foundation and plinth with Portland Composite cement (CEM II/AM, 42.5N) and best quality sand (minimum | 5.93 | cum | | |

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| | FM1.2), filling the interstices tightly with mortar, raking out joints, cleaning and soaking 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. | | | | |
| C.6 | **125mm brick work** with 1st 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 | 48.00 | Sq. m. | | |
| C.7 | **RCC:1:2:4**, 17MPa, Brick Chips (BC): Reinforced cement concrete works for slab of toilet with minimum cement content relates to mix ratio (tentative 1:2:4) and maximum water cement ratio 0.45 having minimum required average strength, f'cr = 24 Mpa and satisfied a specified compressive strength f'c = 17 Mpa at 28 days on standard cylinders as per standard practice of Code AASHTO/ ASTM and Portland Composite Cement conforming to BDS EN 197-1 : 2003 CEM-II 42.5N sand of minimum FM 1.8 and 20mm down well graded picked brick chips (LAA value and maximum water absorption not exceeding 38 and 15% respectively) conforming to ASTM C 33 or Aggregate Grading Appendix-3 LGED Schedule of Rates or any other International recognized envelop in/c breaking chips and screening through proper sieves, centring, shuttering in position, making shuttering fully leak proof & shuttering with plain 16 BWG steel sheet fitted over 38mm thick wooden plank panels and Standard size Bamboo Props suitably braced, placing of reinforcement in position, mixing the aggregates with standard mixer. Etc. all complete as per direction and approval of the Engineer in charge. | 3.21 | cum | | |
| C.8 | **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 etc. | 350.00 | kg | | |
| C.9 | **Minimum 12mm thick cement plaster** (1:4) [Sand FM 1.2] in wall and up to 150mm below ground level of walls, sofit plastering, neat cement finishing for skirting 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. | 94.24 | Sq. m. | | |

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| C.10 | Supplying fitting, fixing of UPVC hollow or solid **plastic door** for toilets (750mmx2100mm) having specific gravity 1.35-1.45, thickness 1.7 mm - 2.2 mm and other physical, chemical, thermal, fire resistivity properties etc. as per BSTI approved manufacturer standards or ASTM, BS/ISO/IS standards of different sizes fitted fixed with uPVC plastic door frame weighing 5.82 kg/m2 with at least 3 Nos Stainless Steel hinges fitted with min 64 Nos of 3.17 mm - 3.97 mm dia 12.7 mm long rivets, 12 Nos 25.4 mm Stainless Steel screws. 9.38 mm dia, 150 mm long Stainless Steel tower bolts 2 Nos, 146 mm long Stainless Steel handle fitted with rivet, fitted with 2 Nos of G.I inner joint 234.95 mm x 127 mm clamp, 76.2 mm x 57.15 mm, 25 mm dia 1 no Stainless Steel hasp bolt, special type round rack, carrying the same to site and local carriage etc. all complete as per direction of the E-I-C. | 3.00 | Nos | | |
| C.11 | Supplying fitting and fixing two nos of **Galvanized MS steel door** (2100mm X900mm) shutter for toilets main door with 18 BWG Galvanized MS sheet/plain plate hinged to RCC columns/brick wall reinforcement with 38mmx38mmx5mm Galvanized MS Angle and 25mmx6mm flat bar stiffener with 38mmX38mmX6mm frame, one coat anticorrosive and two coat enamel paint, welding, carrying etc. all complete as per drawing and direction of E-I-C. | 2.00 | Nos | | |
| C.12 | Supplying fitting, fixing of 600x600mm glazed Aluminium sliding **fanlight**. Rate shall include for necessary hinges, casement lock etc. | 5.00 | Nos | | |
| C.13 | Supplying, fitting and fixing 200x300mm 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. . | 35.14 | Sq. m. | | |
| C.14 | 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. | 21.25 | Sq. m. | | |
| C.15 | **GI Railing for ramp:** Supplying, fitting and fixing railing for ramp with 38-40mm dia of 2.3mm thickness GI pipe, 900mm height with 38mm dia 2.3mm thick vertical post @ 1200mm c/c, 150mm embedded into the ramp after cutting grooves and mending good the damages with Cement Concrete (1:2:4) in/c polishing/painting etc. The rate including making 50 X 100 mm Concrete wheel guard in both sides of the ramp with painting as direction of the E-I-C. | 8.92 | Sq. m. | | |
| C.16 | Supply and fix approved quality **ceramic squatting flat pan** with high level PVC cistern. Rate shall include for necessary waste and cold water plumbing connections, stop valve for cistern, flush pipe etc. | 5.00 | Nos. | | |
| C.17 | **SS Grab Bars:** Supplying, fitting and fixing SS Grab bar with 38mm dia of 1.8mm thick SS pipe, 900mm height | 9.00 | Nos. | | |

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| | with 38mm dia 1.8mm thick vertical post @ 1200mm c/c, baseplate to fix with wall and slab through royal bolt/anchor bolt and mending damages with Cement Concrete (1:2:4) in/c polishing/painting etc. All to be completed as per direction of the E-I-C. Wall guard rail for disable people with 38mm dia pipe, base plate for fixing with wall etc as per design and specification as per direction of Engineer | | | | |
| C.18 | Supply and fix approved quality **ceramic wash basin with pedestal**. Rate shall include for necessary metal CP pillar cock, stop valve, stop valve for cistern, flush pipe, bottle trap, waste plug and cold-water plumbing connections etc. | 7.00 | Nos. | | |
| C.19 | Supply and fix 1/2" diameter brass or CP bib tap liver type | 47.00 | Nos. | | |
| C.20 | Supply and fix 400x600mm bevelled edge mirror | 9.00 | Nos. | | |
| C.21 | Supply and fix 20mm diameter Type 1000 UPVC pipe for water supply. Rate shall include for all necessary fittings and specials, embedding to the wall plaster and necessary connection to the main supply. | 60.00 | L. M | | |
| C.22 | Supply and fix 25mm diameter Type 1000 UPVC pipe for water supply. Rate shall include for all necessary fittings and specials, embedding to the wall plaster and necessary connection to the main supply. | 10.00 | L. M | | |
| C.23 | Supplying, fitting and fixing of **UPVC 100mm dia** (wall thickness of pipe 3 mm and shall be ISO certified materials) with all fittings and specials like plan bend, Tees, reducing sockets, junctions, door bends, 100mm dia cowls, ant siphon including gasket and cement joints making holes in walls and mending good the damages etc. all complete as per direction of the E-I-C. The rate is inclusive of 100mm thick Cement Concrete (1:3.6) all around the soil pipe under ground in/c. necessary earth cutting. The rate including removing existing damaged pipe of sewerage line and washing, cleaning etc all complete as per direction of engineer | 33.00 | L. M | | |
| C.24 | 1.2mm thick SS Soap case including fittings, fixing etc all complete | 20.00 | Nos. | | |
| C.25 | SS Paper holder including fittings and fixing etc all complete | 20.00 | Nos. | | |
| C.26 | Construction of 150x150mm **catch pit** with stainless steel grating. Rate shall include for necessary waste pipe connections. | 14.00 | Nos. | | |
| C.27 | Construction of 300x300mm, 300mm deep waste water manhole with 125mm thick brick work and finish smoot with 1:3 cement sand plaster and including RCC cover, Rate shall include for necessary waste pipe connections. | 14.00 | Nos. | | |
| C.28 | Construction of 600x600mm, 450mm deep sewer manhole with 125mm thick brick work and finish smoot with 1:3 cement sand plaster and including RCC cover, Rate shall include for necessary waste pipe connections. | 3.00 | Nos. | | |
| C.29 | Supplying, fitting and fixing of 100 mm inside diameter & wall thickness 2.7 mm - 3.4 mm best quality uPVC **rain** | 157.00 | L.m | | |

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| | **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. | | | | |
| C.30 | **Commode:** Supplying, fitting and fixing of European type country made best quality glazed porcelain combi closet (two piece), including plastic seat cover with soft closing, cistern system, water consumption 6 litre, siphon wash down/siphon jet single or dual flushinging system which reduce water consumption, hygienic glaze in toilet bowl, glaze in inner waste line, round bowl, outlet range 280~305 mm. The sanitary ware shall conform BDS1162:2014. The glaze shall be thoroughly fused to body. The minimum thickness of body at any section shall be 5 mm. When assembled together and when examined from a distance of 60 cm, the outer surface shall not show to the unaided eye, blemishes or defects in excess of those listed in BDS standard. The mean value of water absorption shall not be greater than 0.5% of the ware when dry. When tested with chemical solutions (Acetic acid, Citric acid, Detergent, Hydrochloric acid, Sodium hydroxide, Sodium stearate and Sulfuric acid of various strength) as per BDS1162:2014 procedure, none of the test pieces should suffer any loss of reflectivity on the glaze. There shall be no crazing and no stain on the ware. The materials used for making glaze shall not contain lead compound. In case of certain coloring oxides used for making colored glaze, the lead content, if any, shall not exceed 5 percent of the weight of the glaze materials. Appliances shall be clearly and indelibly marked at a prominent place, visible even after the appliances are installed with the following: a) manufacturer's name and/or registered trademark, b) the number of Bangladesh standard and c) country of origin. Each product shall also be marked with the BSTI Certification Mark. The fixure should be placed in position preparing the base with cement concrete and with wire mesh or rods if necessary, in all floors including making holes wherever required and mending good the damages and fitting, fixing, finishing, complete with all necessary fittings and connection approved and accepted by the Engineer- in- charge. 7.01.1 Approx. 670~690 X 360~ 362 mm size, minimum 27.5 kg of weight; Use ISO-certified porcelain sanitary ware from authorized manufacturers. | 4.00 | Nos. | | |
| C.31 | Supply, Fitting & Fixing Piller cock | | Nos. | | |

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| | | 7.00 | | | |
| C.32 | Supply, Fitting & Fixing Angle Stop Cock | 5.00 | Nos. | | |
| C.33 | Supply, Fitting & Fixing Connection Pipe | 5.00 | Nos. | | |
| C.34 | Supply, Fitting & Fixing Vent Cowl 4" | 7.00 | Nos. | | |
| C.35 | Supply, Fitting & Fixing Hand Push | 6.00 | Nos. | | |
| C.36 | Soak Well: Supplying, fitting and fixing 900mm ring 5 nos and 900mm slab connect into the 150 mm 3 Lm upvc pipe. | 4.00 | Nos. | | |
| C.37 | MHM Kit Corner: Supplying, fitting and fixing 900mm ring 4nos and 900mm slab connect into the 150 mm 3 Lm upvc pipe. | 1.00 | Nos. | | |
| C.38 | vixol 500ml | 17.00 | Nos. | | |
| C.39 | Harpic 500 ml | 31.00 | Nos. | | |
| C.40 | Plastic hand brush | 31.00 | Nos. | | |
| C.41 | Hand gloves | 18.00 | Set | | |
| C.42 | Septic tank desludging | 7.00 | Nos. | | |
| C.43 | Pump motor: CENTRIFUGAL PUMP MOTOR SETSINGLE STAGE ( SINGLE PHASE )(For lower capacity/smaller household requirement) Providing of single stage 2800-2900 RPM mono block type Centrifugal water pump motor set ( reservoir to overhead tank) manufactured according to relevant BDS standard and ISO 9906:2012, GRADE 3B/ DIN/ NEMA/ IEC/ BS/ VDE/ JIS/CEI 2-3/ CSA/ GS/ SONCAP/ ROHS & ISO 9001 (Quality) ISO 14001 (Environment and Safety) standard of following capacity suitable for operation at single phase, 230 V ± 5 %, 50 Hz AC having insulation: B & protection: IPX4 (minimum) & CE certified . Country of Manufacture: Bangladesh/ China/ Vietnam/ Malaysia as per sample accepted / approved by the Engineer-in-charge. HP-1Discharge (liter/min)- 10-100Head (meter)- 35-16Suction dia (mm)- 25Delivery dia (mm)- 25 | 1.00 | Nos. | | |
| | Sub total | | | | |
| D | Electrical Works with Fittings | | | | |
| D.1 | **MDB/SDB:** Supplying, assembling, fitting, fixing & installation (with surface/concelled electric wiring for effictive 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 | 5.00 | Nos. | | |

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| D.2 | **Switch board:** 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. | 46.00 | Nos | | |
| D.3 | **Power Socket**: Supplying, assembling, fitting, fixing & installation (with effective connection) of 250 volts single phase 3-pin socket outlet foreign made brand as per sample and approval by E-I-C. all complete as per drawings and directions of the E-I-C. | | | | |
| | 2 pin 5A Socket (S1) | 26.00 | Nos | | |
| | 3-Pin 15A Socket (P) | 32.00 | Nos | | |
| D.4 | **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, gang switches 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. Use ISO Certified products. | 38.00 | Nos. | | |
| D.5 | **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. | 5.00 | Nos | | |
| D.6 | **Caged LED light:** Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning 20W LED ceiling mounted lamp with metal cage with separate gang switch as per direction and sample approved by E-I-C. Minimum one year manufacturer warrantee | 22.00 | Nos. | | |
| D.7 | **LED light:** Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning 20W LED wall mounted lamp, with separate gang switch and holder as per direction and sample approved by E-I-C. Minimum one year manufacturer warrantee | 140.00 | Nos. | | |
| D.8 | **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- | 12.00 | Nos. | | |

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| | charge. | | | | |
| D.9 | **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. | - | | | |
| | 1c-2x2.5 sqmm (BYA) Cable with 2.5 sqmm (BYA) ECC wire through PVC Pipe of 25 mm inner dia. | 650.00 | m | | |
| | 1c-2x1.5 sqmm (BYA) Cable with 1.5 sqmm (BYA) ECC wire through PVC Pipe of 25 mm inner dia. | 410.00 | m | | |
| D.10 | **Earthing system:** Supply & installation (with effictive 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. | 5.00 | Nos. | | |
| | Sub total | | | | |
| | Access Development Works | | | | |
| E.1 | **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. | 12.00 | cum | | |
| E.2 | **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. | 5.00 | cum | | |
| E.3 | **Brick work** with 1st class bricks in cement mortar (1:4) in foundation and plinth with Portland Composite cement (CEM II/AM, 42.5N) and best quality sand (minimum FM1.2), filling the interstices tightly with mortar, raking out joints, cleaning and soaking 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. | 0.30 | cum | | |
| E.4 | **SHBB(FM-0.50):** Providing Brick on edge pavement in single layer of Herring Bone Bond (HBB) with 1st class or picked bricks true to level, maintaining camber, super elevation and grade, **including supplying and laying** | 82.00 | Sq. m. | | |

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| | **25mm thick sand (FM 0.80) cushion over the BFS,** filling the interstices tightly with same type of sand, etc. all complete in all respect as per approved drawing, specification and direction of the Engineer-in-charge. | | | | |
| E.5 | **Brick on end edging** (125mm across) with 1st class/picked bricks including cutting trenches true to level & grade, removing earth, re-filling & ramming the sides properly, including supplying and filling the gaps with local sand, etc. all complete as per direction of the E-I-C. | 114.00 | L.M. | | |
| E.6 | **GI Railing for Ramp:** Supplying, fitting and fixing railing for ramp with 38-40mm dia of 2.3mm thickness GI pipe, 900mm height with 38mm dia 2.3mm thick vertical post @ 1200mm c/c, 150mm embedded into the ramp after cutting grooves and mending good the damages with Cement Concrete (1:2:4) in/c polishing/painting etc. The rate including making 50 X 100 mm Concrete wheel guard in both sides of the ramp with painting as direction of the E-I-C. | 12.82 | Sq. m. | | |
| E.7 | **Plastering 12mm 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) | 4.00 | Sq. m. | | |
| | Sub Total | | | | |
| F | Tubewell Installation | | | | |
| F.1 | **(a) Transportation:** Transportation of all kinds of departmental and contractor's materials / equipments to the site for installation of Tube Well with supplying of casing pipe, boring pipe, restore the unused departmental materials to the departmental store etc. All complete as per direction of the Engineer-in-Charge. | 1 | LS | | |
| | (b) Construction of derrick and dismantling the same, cleaning the site after completion of the work etc. all complete as per direction of the Engineer-in-Charge. | 1 | LS | | |
| F.2 | Drilling & Installation: Boring by using 200 &100 mm diameter cutter with 38 mm dia GI pipe, required housing pipes and other equipments capable of drilling up to required depth by water jet method or any other method approved by the E/C through all sorts of strata, pea gravel interference, protection of caving in by supplying necessary MS casing pipe and use of bentonite slurry or similar, collection the soil samples in boxes at every 3 m interval and at every change of strata and preserving them for analysis, withdrawal of boring pipes and casing pipes etc. complete lowering of pipes for installation of all tubewells as per drawing, specification and direction of the E/C. (Material test fee is included in rate, Lapping will not be including in measurement of depth) | | | | |
| | **Drilling & Materials including fitting & Fixing:** | | | | |
| | i) 100mm dia 3.65mm thickness GI pipe | 0.5 | m | | |

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| | ii) 0-30 m -100 mm dia uPVC ( Class-D) Upper well casing | 30 | m | | |
| | iii) 30-80 m -38 mm dia uPVC (Class-D) Pipe. | 50 | m | | |
| | iv) 80-145 m -38 mm dia uPVC (Class-D) Pipe. | 65 | m | | |
| | v) 145-253 m -38 mm dia uPVC (Class-D) Pipe. | 105.5 | m | | |
| | vi) 253-260 m-38 mm dia uPVC Filter (Slot opening 8-10) (E'-Class) | 9 | m | | |
| | vii) 217-220 m 38 mm dia uPVC sand trap with end cap (D'-Class) | 3 | m | | |
| | viii) solvent cement (100gm Tube) | 3 | P/Tube | | |
| | ix) 100X38 mm dia uPVC Reducer (D'-Class) | 1 | Nos | | |
| F.3 | **Clay Sealing, Sand Filling and Local/bored Soil Filling** | | | | |
| | a) Sand Filling: Filling up of the annular space between bore hole & strainer with coarse sand (FM - 2.5) **from end cap up to a level 10 m above the strainer (19 m).** | 19 | m | | |
| | b) **Clay Sealing:** Filling up the 6 m annular space from the top of coarse sand with 3-5 mm diameter balls made of bentonite and local clay in a proportion of 1:1. (6m) | 6 | m | | |
| | c) Local/bored Soil Filling: Filling the remaining bore hole spaces with bored soil prefreably clay soil, all complete as per direction of EIC. (195m) | 256 | m | | |
| F.4 | Well Development: Complete development of the **tube well by using both manual and compressor pump by continuous pumping at least for 6-12 hours untill water becomes sand and turbidity free and ensuring a satisfactory yield etc, all complete as per specifications and direction of the E/C.** | 2 | Item | | |
| F.5 | Disinfection: Disinfecting the well including supply of 50 gm of bleaching powder (33% strength), chlorinated water having 150 ppm available free chlorine complete as per standard specification etc. all complete as per specifications and direction of the EIC. | 1 | Item | | |
| F.6 | **Collection of water sample and testing:** After ensuring proper well development, collect the water samples and sending the samples to the DPHE Zonal Laboratory for testing of **Arsenic, Iron, Chloride** parameters which will be tested at the laboratory. The cost of sampling, carrying to the laboratory and testing by DPHE laboratory has to be done by the contractor. | 3 | P/Test (Fixed Item) | | |
| | Superstructure | | | | |
| F.7 | Earth work in excavation in all kinds of soil for foundation trenches including layout, providing center lines, local bench-mark pillars, levelling, ramming and preparing the base, fixing bamboo spikes and marking layout with chalk powder, providing necessary tools and plants, protecting and maintaining the trench dry etc., stacking, cleaning the excavated earth at a safe distance out of the area enclosed by the layout etc. all complete and accepted by the Engineer-in-charge, subject to submit method statement of | | | | |

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| | carrying out excavation work to the Engineer-in-charge for approval. However, engineer‟s approval shall not relieve the contractor of his responsibilities and obligations under the contract. | | | | |
| | Earthwork in excavation in foundation trenches up to 1.5 m depth and maximum 10 m lead: in soft clayey soil / loose sand / silt | 0.41 | cum | | |
| F.8 | Supplying and laying of single layer polythene sheet weighing one kilogram per 6.5 square meter in all respect as per direction of the Engineer in charge. | 3.39 | cum | | |
| F.9 | One layer brick flat soling in foundation or in floor with first class/picked jhama bricks including preparation of bed and filling the interstices with local sand, leveling etc. complete and accepted by the Engineer-in-charge | 3.39 | Sq. m. | | |
| F.10 | Mass concrete (1:2:4) in foundation or in floor with cement, sand (F.M. 1.2) and picked jhama brick chips including breaking of chips, screening, mixing, laying, compacting to required level and curing for at least 7 days including the supply of water, electricity, costs of tools & plants and other charges etc. all complete and accepted by the Engineer-incharge.(Cement: CEM-II/A-M) | 0.26 | cum | | |
| F.11 | 250 mm Brick works with first class bricks with cement sand (F.M. 1.2) mortar (1:6) in foundation and plinth, filling the joints/interstices fully with mortar, racking out the joints, cleaning and soaking the bricks at least for 24 hours before use and curing at least for 7 days etc. all complete including cost of water, electricity and other charges and accepted by the Engineer-in-charge. (Cement: CEM-II/A-M) | 1.43 | cum | | |
| F.12 | 125 mm brick work with first class bricks with cement sand (F.M. 1.2) mortar (1:6) and making bond with connected walls including necessary scaffolding, raking out joints, cleaning and soaking the bricks for at least 24 hours before use and washing of sand, curing at least for 7 days in all floors including cost of water, electricity and other charges etc. all complete and accepted by the Engineer-in-charge. (Cement: CEM-II/A-M) In ground floor | 0.50 | Sq. m. | | |
| F.13 | Minimum 12 mm thick cement sand (F.M. 1.2) plaster with neat cement finishing to dado with cement (1:4) up to 150 mm including washing of sand, finishing the edges and corners and curing at least for 7 days, cost of water, electricity, scaffolding and other charges etc. all complete in all respect as per drawing and accepted by the Engineer-incharge. (Cement: CEM-II/A-M) ground floor. | 5.48 | Sq. m. | | |
| F.14 | Reinforced cement concrete works with minimum cement content relates to mix ratio 1:2:4 having minimum f'cr = 24 MPa, satisfying a specified compressive strength f'c= 19 MPa at 28 days on standard cylinders as per standard practice of Code ACI/BNBC/ASTM, cement conforming to BDS EN-197-1-CEM-I, 52.5N (52.5 MPa) / ASTM-C 150 Type – I, best quality sand [50% quantity of best local sand (F.M. 1.2) and 50% quantity of Sylhet sand or coarse sand of equivalent F.M. 2.2] and 20 mm down well graded | | | | |

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| | picked jhama brick chips conforming to ASTM C-33 including breaking chips and screening, making and placing shutter in position maintaining true to plumb, making shutter water-tight properly, placing reinforcement in position; mixing in standard mixer machine with hopper fed by standard measuring boxes or mixing in batching plant, casting in forms, compacting by vibrator machine and curing at least for 28 days, removing centering-shuttering after specified time approved; including cost of water, electricity, testing charges of materials and cylinders as required, other charges etc. all complete, approved and accepted by the Engineer-in-charge. (Rate is excluding the cost of reinforcement and its fabrication, placing, binding etc. and the cost of shuttering & centering) | | | | |
| F.15 | Grade 300 (RB 300 /RB 300W: complying BDS ISO 6935-2:2006) ribbed or deformed bar produced and marked according to Bangladesh sandard, with minimum yield strength, fy (ReH)= 300 MPa but fy not exceeding 330 MPa and whatever is the yield strength within allowable limit as per BNBC/ ACI 318, the ratio of ultimate tensile strength fu to yield strength fy, shall be at least 1.25 and minimum elongation after fracture and minimum total elongation at maximum force is 16% and 8% respectively : up to ground floor | 22.00 | kg | | |
| F.16 | Centrifugal Pump with plumbing works | | | | |
| F.16.1 | Pump Head (with fitting & fixing) : Supplying of Tube-well complete Head (No-6), Color: Blue/Green (Heavy Type), Minimum weight # 31 (±0.5) Kg. The pump should be free from any defects such as cavity, cracks etc. Inner side of the barrel should be smooth. Back washing should be untill withdrawling doing fresh water (without any sand), painting of the Tube-well Head (2-Coats, Coloring-Bluish/ As per instruction) | 1.00 | Item | | |
| F.16.2 | Pump motor :CENTRIFUGAL PUMP MOTOR SETSINGLE STAGE ( SINGLE PHASE )(For lower capacity/smaller household requirement) Providing of single stage 2800-2900 RPM monoblock type Centrifugal water pump motor set ( reservoir to overhead tank) manufactured according to relevant BDS standard and ISO 9906:2012, GRADE 3B/ DIN/ NEMA/ IEC/ BS/ VDE/ JIS/CEI 2-3/ CSA/ GS/ SONCAP/ ROHS & ISO 9001 (Quality) ISO 14001 (Environment and Safety) standard of following capacity suitable for operation at single phase, 230 V ± 5 %, 50 Hz AC having insulation: B & protection: IPX4 (minimum) & CE certified . Country of Manufacture: Bangladesh/ China/ Vietnam/ Malaysia as per sample accepted / approved by the Engineer-in-charge. HP-1Discharge (liter/min)- 10-100Head (meter)- 35-16Suction dia (mm)- 25Delivery dia (mm)- 25 | 1.00 | Item | | |
| F.16.3 | Supplying, fitting and fixing Special hard grade/thread pipe (class 'E' ) 25 mm dia as column pipe each 3.0 m long having one end socket and another threaded etc. using | 30.00 | m | | |

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| | necessary Tee's, bends, L-bows and sockets and fitted in position with all necessary accessorise etc. all complete as per as per standard practice and accepted by the Engineer in charge. | | | | |
| F.16.4 | S.S / Copper Wire- no 10, for hanging submersible pump in position of center of well, use 2ply wire (25mx2) | 50.00 | m | | |
| F.17 | Supplying and fitting, fixing a flange of 100 mm dia. and 4 mm thick m.s plate having one hole for easy setting of 25 mm dia. uPVC suction pipe and for pump cable and copper heavy wire etc. all complete as per requirement and accepted by the Engineer in charge. | 1.00 | Nos | | |
| F.18 | Electric Surface wiring at the switch board with earth terminal including circuit wiring with 2c-1.5 sq.mm PVC insulated and sheathed cable (BYFYE) with PVC batten complete with 18 SWG GP Sheet switch board with 3 mm thick ebonite sheet cover, 5 amps. wall switch, socket etc. including fixing materials, others accessories etc as per direction of the Engineer in charge. | | | | |
| F.18.1 | Supplying and installation of Combined Switch and socket | 1.00 | Nos | | |
| F.18.2 | Electric wire (3/20) (Eastern/BRB/Equivalent) for connection with electric service including trial operation including protection of wire to ensure safety with 10 mm dia PVC pipe/ channel etc. all complete as per standard practice and accepted by the Engineer in charge. | 10.00 | m | | |
| F.18.3 | Circuit breaker 5 amps. | 1.00 | each | | |
| | Making plumbing line Concealed) with special hard grade / thread GI including supplying necessary clamps, screws, royal plug, El-bow, bends, Tees etc. all complete as per specifications and direction of the Engineer in charge. | | | | |
| | i. 25 mm dia pipe (GI) | 1.50 | m | | |
| | ii. 20 mm dia pipe (GI) | 1.00 | m | | |
| | iii. 25 mm dia gate valve (GI) | 3.00 | Nos | | |
| | iv. Clamp with screw | 4.00 | set | | |
| | v. 25mm Elbow (GI) | 1.00 | Nos | | |
| | vi. 25mm dia Tee (GI) | 1.00 | Nos | | |
| | vii. Supplying, fitting and fixing 12 mm Plastic bib cock. | 2.00 | Nos | | |
| | viii. Thread Tap | 5.00 | Nos | | |
| F.19 | A certificate in laminated form A4 Size paper containing the well description, water quality test report in a prescribed format duly signed by concerned executive engineer must be provided to the caretaker of the water point. Handover certificate shall duly sign by the authorized caretaker and return to the executive engineer. The whole work has to be done as per specification, | 1.00 | LS | | |

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| | drawing and direction of the E/C. | | | | |
| F.20 | Geo-Code Plate: Supplying & Fixation of Geo-Code Plate (Marble/ Stone Plate-300x150x12.50mm) on the vertical/inclined surface of the cc block (block size 300mmx300mmx450mm). The project name, implementing agency, date of installation and well ID No. has to be engraved on the ID Plate with indelible ink. Geo-Code Plate shall install during construction of platform. The whole work has to be done as per specification, drawing and direction of the E/C. | 1.00 | LS | | |
| G | Solar Power System Installation | | | | |
| G.1 | **Solar Panel - The nominal power of a single PV module shall be 500Wp** Supply, fitting, fixing, and testing of Tier-1 category Solar PV module of mono crystalline, half-cell type with junction box IP68 and 3 diodes. The Solar PV module/panel shall be in conformity with the requirements of **IEC 61215, IEC 61730, ISO 9001:2015, ISO 14001:2015, and ISO 45001:2018** standards. Necessary catalogue, operation & maintenance manual, and manufacturer authorization letter need to be provided by the contractor. The average efficiency shall be greater than 20%, with a performance warranty of more than 90% at 12 years and more than 80% at 25 years. The modules shall be Tier-1 category, ISO-certified, high-quality, and bankable to ensure reliable performance and long-term durability. | 15.00 | KW | | |
| G.2 | **PV Mounting Structure:** Supply, cutting, welding, fitting, fixing with accessories. PV Modules will be installed on top of a 3-story building. The Mounting poles shall be made of 75mm hot-dip GI pipe with minimum 4mm thickness. The poles shall be bolted to be RCC structure by using 200mmx200mm base plate of 4mm thickness followed by 300x300x300 mm CC Casting with plastering and painting works. The drilled/bolted area shall be properly sealed with epoxy coating for water leakage prevention. | 15.00 | KW | | |
| G.3 | Supply, fitting, fixing, testing and commissioning of **Solar Off-grid Inverter** protected from lightning induced current by surge protective device of adequate rating both in DC and AC side in parallel at the entry and exit terminal of the inverter. The inverter shall also be protected from overload and overcurrent from both DC and AC side. The inverter shall be tested and certified by UL/ VDC/ VDE/ ETL in accordance with the requirement of the relevant IEC standards and shall have authentication to use CE, TUV and UL logo. Features shall include local monitoring with wifi dongle, intelligent features such as bill saver mode operation and grid priority mode operation, remote/wired inverter ON/OFF, communication ports RS485. Specification of the inverter shall be as follows:Output power (continuours)at 40 deg C: **4000VA/4000W**, Overload for **60sec/15min: 6000W** Surge rating for 10 sec: 35A, Output Voltage wave-form: Pure sine wave, Output Voltage: 230VAC, 50 Hz, 1-Ph, | 5.00 | Nos | | |

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| | Inverter Efficiency at peak: >90%, Total harmonic distortion:<5%, Operating Temperature: 5-50 deg C, Relative Humidity: 5-95%, Display: LCD, Charger current setting: configurable, Regulatory approval: IEC62109-1, IEC 62040-2, Certification: CE, RoHS, SONCAP, The modules shall be ISO-certified. **Warranty: Minimum 2 years.** | | | | |
| G.4 | **Solar Battery:** Supply, installation (with effective connection), testing & commissioning of Solar battery with nominal **voltage,12V,130AH** or above @10HR or equivalent Deep Cycle heavy duty industrial type Lead Acid battery, positive plate: Tubular or solid thicker Plate, negative plate: Pasted float, Electrolyte Dilute Sulfuric Acid, especially suitable for Solar system. The term "Solar" must be engraved at the body of Battery. The modules shall be ISO-certified. **Warranty: At least 05 yrs.**<br>Life Cycle: At least 2500 @ 50% DOD | 40.00 | Nos | | |
| G.5 | **Battery Rack:** Supply, cutting, welding, fitting and fixing battery rack for solar battery storage. The rack shall the customized according to site requirements and best utilization of space, material shall be Galvanized MS angle of minimum thickness 3mm. Finally, the entire rack shall be protected by fixing PVC fencing around it. | 5.00 | Set | | |
| G.6 | **Solar Array Junction Box:** Supply, fitting, fixing of Solar AJB made of 18 SWG MS Sheet with hinged type door and locking arrangement complete with necessary SPD and DC circuit breaker of adequate rating based on PV connection and duly painted with powder coating with epoxy polyester resin on all surfaces of board (grey/off-white). | 5.00 | Set | | |
| G.7 | **AC Combiner Box- ACCB:** Supply, fitting, fixing of AC Combiner Box made of 18 SWG MS Sheet with hinged type door and locking arrangement complete with necessary SPD and DC circuit breaker of adequate rating based on PV connection and duly painted with powder coating with epoxy polyester resin on all surfaces of board (grey/off-white). | 5.00 | Set | | |
| G.8 | **Battery Junction Box:** Supply, assembling, fitting, fixing of Battery Junction box complete with DC Circuit breakers for connection between JB to MPPT charge controller (quantity as per system requirements) 2P DC MCB for connection to inverter I/O to battery junction box (quantity as per system requirements), DC bus-bar and 200A fuse. | 5.00 | Set | | |
| G.9 | **Cables:** Supply and fitting, fixing cables for solar cables of following sizes with necessary accessories such as PVC Channel/flexible pipes, cable tie, PVC tape, Copper lugs, connector etc. All cables shall be manufactured and tested according to IEC/BS/VDE standards. The work shall be carried out as per direction/approval of the engineer in-charge. | - | | | |
| G.9.1 | For String Wiring: 1Cx1-6RM NYYF Cable | 500.00 | Meter | | |
| G.9.2 | For AJB to Charge Controller Wiring: 1x1C-16RM NYYF Cable | 150.00 | Meter | | |

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| G.9.3 | For Charge Controller to Battery and Battery to Inverter: 1x1C-25RM NYY Cable | 250.00 | Meter | | |
| G.9.4 | For Load Wiring: 1x1C-6RM BYM Cable | 350.00 | Meter | | |
| G.9.5 | Earthing Cable: 1x1C-4RM BYA ECC | 225.00 | Meter | | |
| G.9.6 | Earthing Cable: 1x1C-10RM BYA ECC | 200.00 | Meter | | |
| G.10 | Earthing and Protection: 12mm Copper conductor, 40-60 feet boring (Solar Panel and other equipment), lightning arrestor, necessary clamp, nut-bolts, earthing rod; earth resistance must be less than 5 ohms. | 5.00 | Set | | |
| G.11 | Supply and installation of 63A compact type best quality single phase manual change over switch with rotary type handle and 3 position (1-0-2) controlling. Recommended ISO certified products. | 10.00 | Nos | | |
| | Sub Total | | | | |
| | Grand Total (A+B+C+D+E+F+ G) | | | | |

**Terms and Conditions**

1. **Submission Deadline:** All sealed quotations must be submitted to designated email address **on or before September 24, 2025, at 4:00 PM**. Late submissions will not be accepted.
2. **Tender Opening Date:** The tender will be opened on **September 25, 2025, at 2:00 PM** by the Procurement Committee. Only the **selected vendor(s)** will be contacted directly by email/phone. If no communication is received by **September 28, 2025**, it shall be understood that the bidder has **not been awarded/selected** under this process. No further communication will be entertained in this regard.
3. **Pre-Bid Meeting:** The pre-bid meeting will be held on **September 14, 2025, at 10:30 AM**. Participants may join in either of the following ways:
    - **Online:** Through the following link: https://calendar.app.google/ZkxmhCzociJyXMpz7
    - **In-Person:** At Uttaran Regional Office, Mobarakpur, Tala, Satkhira.
      Interested participants may directly join by either option. However, to avoid any miscommunication or misunderstanding, all bidders are **strongly encouraged to register in advance** by completing the following Google Form link: https://forms.gle/VK4dTrmRQx1CsYYo9.
4. **Price Quotation:** The quoted price must be **inclusive of VAT, Tax, loading–unloading, transportation, and all other related costs**. No additional claims will be entertained later.
5. **Submission Requirements:** Vendors must submit their price quotation on **official letterhead** and attach the duly received Tender Form (Annex-A) with the organization's seal and authorized signature.
6. **Field Visit Report:** Vendors/Construction suppliers must submit a **field visit report, including photographs**, along with their price quotation.
7. **Quotation Validity:** Vendors must clearly **mention the validity period** of their quotation in the price offer.
8. **Labor Engagement and Compliance:** The supplier must **hire 100% of unskilled day laborers from the local flood-affected community**, and at least **30% of skilled laborers** from the same community

during the work period. All engaged laborers must be **paid fair wages in accordance with local market rates and government guidelines**. Uttaran will closely monitor compliance, and upon completion of the work, the vendor must submit all necessary documents verifying such employment and payments. **Failure to comply with these requirements may result in disqualification of the vendor and/or withholding of payment.**

9. **Confidentiality:** This is a **confidential document**. Vendors are strictly prohibited from sharing this document or any related information without the prior written consent of Uttaran.

10. **Delivery Timeline:** The supplier must complete the assigned work **by November 2025**.

11. **Delivery Location:** The work delivery sites are located in **Lakshmipur Sadar Upazila** and **Kamalnagar Upazila** of Lakshmipur District. Detailed sites are as follows:

**Package 01 (Kamalnagar & Lakshmipur Sadar):**

- Char Bashu Patwaripara Govt. Primary School cum Evacuation Shelter, Kamalnagar Upazila
- Charkadira K.M. Govt. Primary School cum Evacuation Shelter, Kamalnagar Upazila
- Purba Torabganj Bhuiyagram Govt. Primary School cum Evacuation Shelter, Kamalnagar Upazila
- Forash Ganj Govt. Primary School cum Evacuation Shelter, Lakshmipur Sadar Upazila
- Char Monosha Govt. Primary School cum Evacuation Shelter, Lakshmipur Sadar Upazila

**Package 02 (Lakshmipur Sadar):**

- Bishnu Nagar Govt. Primary School cum Evacuation Shelter
- Parboti Nagar Govt. Primary School cum Evacuation Shelter
- Dilshadpur Govt. Primary School cum Evacuation Shelter
- Shahapur Govt. Primary School cum Evacuation Shelter
- Pachpara Govt. Primary School cum Evacuation Shelter

12. **Tax Compliance:** Vendors must submit their quotation **including VAT and Tax**. Applicable VAT and Tax will be deducted from the payment as per Government of Bangladesh rules.

13. **Payment Mode:**

- Payments will be made through **A/C Payee Cheque only**, in favor of the selected vendor.
- Payment will be processed **within seven (07) working days** upon submission of the original invoice/bill and all required supporting documents, or as per mutually agreed negotiation.
- **Account Payee Cheque is mandatory**; no cash or other form of payment will be entertained.
- **Retention Money:** 10% of the total billed amount will be withheld for **30 (thirty) days** after completion of the work/supply. This retention will be released only upon successful verification of quality and satisfactory completion of the assignment by the Procurement Committee.
- The vendor must ensure submission of a valid money receipt upon receiving payment.

14. **Right to Accept or Reject:** Uttaran is **not bound to accept the lowest bid** and reserves the right to **accept or reject any or all tenders, in part or in full, without assigning any reason whatsoever** and the evaluation will be made based on proposed quality of work, materials, documentation etc.

15. **Required Documents:** Vendors must submit the following documents along with their quotation:

- Valid Trade License
- TIN Certificate & Income Tax Return Certificate
- BIN Certificate
- Relevant Experience Certificate (if any)
- Bank statement of last 6 months
- Organizational compatibility or capacity statement

16. **Anti-Corruption Policy:** Uttaran follows a **ZERO-TOLERANCE policy against bribery or corruption**. Any attempt to influence the process will lead to immediate disqualification.
17. **Prohibition of Child Labor:** Employment of child labor (under 18 years of age) is **strictly prohibited**. If any vendor is found using child labor, the agreement will be cancelled, and further legal action may be taken.
18. **Submission Method:** Quotations **must be submitted by email only** to **procurement@uttaranbd.org**. **Physical/hand-delivered or courier submissions will not be accepted.**
    - **Email subject line:** "RFQ – [Package Name] – [Vendor Name]-Lakshmipur shelter renovation project".
    - **File format:** Single PDF (scanned, signed, and stamped)
    - **One email per bid**; if multiple files, combine into one PDF.
    - **Deadline compliance:** Emails must be received by **24 September 2025 & before 05.00 pm, BST**. Late emails will be rejected.
    - **Clarifications:** Direct all queries to **procurement@uttaranbd.org** only or call to 01712-308342
19. **Selection Criteria:** The selection of the supplier/vendor will be based on the principle of **best value**, not solely the lowest quoted price. Evaluation will consider:
    - Price competitiveness
    - Proposed quality of materials and items
    - Submitted business/legal documents (valid trade license, VAT, TIN, etc.)
    - Field visit/assessment report
    - Financial capacity to deliver on time and at scale
    - Relevant past experience with similar supplies/services
    - Demonstration of technical capacity

    The procurement committee reserves the right to make a holistic assessment to ensure quality, reliability, and accountability.
20. **Solar Installation Requirement:** A standard company must be engaged for the installation of solar panels. Prior to finalization, approval must be obtained from the Uttaran Procurement Committee and Project Engineer.
21. The awarded Supplier/Contractor shall submit the detailed work schedule specifying the start and completion dates for each activity.

22. **Queries:** For any clarification or queries regarding this RFQ, please contact:

- **Email:** procurement@uttaranbd.org
- **Phone:** +880 1712-308342 (during office hours only)

**Member Secretary**
Procurement Committee
**Uttaran**

Annex -B

## Field Visit Report **Evacuation** Shelter wise

**Vendor Information:**

| | |
|---|---|
| Vendor Name: | |
| Address: | |
| Contact Person: | |
| Phone/Email: | |

**Field Visit Details:**
Date of Visit: _____
Visited Location: _____
Purpose of Visit: _____
**Observations:**
(Please provide comprehensive details of your measurements and relevant notes from the field visit.)
**Pictures from Field Visit with caption**
Please attach/insert pictures here.
Any additional information or comments from the vendor.
**Vendor Authorization:**
Name & Signature: _____
Date: _____