

E M CONSTRUCTION**Bill of Quantities**

Bill of Quantities

Item no.	Group	Item Code (if any)	Description of Item	Measurement Unit	Quantity	Unit Price In figures (BDT)	Unit Price In Words (BDT)	Total Price In Figures (BDT)	Total Price In Words (BDT)
01	Civil	16.2.1	Interior standard acrylic emulsion paint (plastic or matt finish) of approved best quality and colour delivered from authorized local agent of the manufacturer in a sealed container; applying to interior wall and ceiling with surface preparation including cleaning drying, making free from dirt, grease, wax, removing all chalked and scaled materials, fungus, mending good the surface defects using sand paper and necessary scaffolding; applying necessary interior sealer of specified brand on prepared surface; then applying necessary interior putty of specified brand for levelling, spot filling, crack filling and cutting by sand paper/zero water paper; finally applying 2 coats of interior emulsion paint spreading by brush/roller/spray & necessary scaffolding etc. upto desired finishing, elapsing specified time for drying or recoating; all complete in all floors and accepted by the Engineer-in-charge.	sqm	365.520	180.000	One Hundred And Eighty	65793.600	Sixty-Five Thousand Seven Hundred And Ninety-Three Point Six
02	Civil	14.13.2	Supplying fitting and fixing of aluminium fixed fan light as per the U.S. Architectural Aluminium	sqm	48.780	5000.000	Five Thousand	243900.000	Two Lakh Forty-Three Thousand

			Manufacturer's Association (AAMA) standard specification and BDS 1879:2014 having minimum 1.2 mm thick fixed bottom (size 76.2 mm, 38.10 mm, 0.640 kg/m), minimum 1.2 mm thick (17.40 mm, 31.78 mm bottom cover 0.250 kg/m) and minimum 1.2 mm thick groove cover (size 57.15mm, 15.80 mm, 0.362 kg/m) and minimum 1.2 mm thick top and side section (76.20 mm, 16 mm, 38.10 mm, 0.769 kg/m) fixed with above mentioned frames and all aluminium members will be anodized to aluminium bronze/silver/ss/black colour with a coat not less than 15 microns in thickness or powder coated to any colour with a coat not less than 25 microns in thickness and density of 4 mg per square cm etc. including all accessories, neoprene, sealant, nut and bolt etc. complete in all respect as per drawing and accepted by the Engineer-in-charge. Powder coated to any colour						Nine Hundred
03	Civil	14.16.1.4.1	Supplying, fitting and fixing in Aluminium door frames, windows, partitions and curtain wall distortion free glass of approved quality and shade including cost of fitting fixing all necessary accessories etc. complete in all respect as per drawing and accepted by the Engineer-in-charge. 5 mm thick reflective glass	sqm	48.780	6000.000	Six Thousand	292680.000	Two Lakh Ninety-Two Thousand Six Hundred And Eighty
04	Civil	22.4	Supplying, fitting and fixing special quality	sqm	3.253	5000.000	Five Thousand	16265.000	Sixteen Thousand

			10 mm thick clear tempered glass door including all accessories, 1 set floor mounted auto door closure, 2 nos. clamping devices, 1 set locking device, top hinge and handle etc. complete in all respect as per drawing and direction of the Engineer-in-charge.						Two Hundred And Sixty-Five
05	Civil	18.6.1.1	Supplying, fitting and fixing Wall Almirah with one side attires cabinet including locker and another side shelf of Depth-1'-8" made by 18 mm B.T Veneered/ B.T. ply/ B.T marine ply board on 2.50"x2.50" (Finished) Ctg. Teak Wooden Outer Frame, 1.50" x 1.50" (Finished) Ctg. Teak wooden frame for shelf, 1.25" x 1.25" (Finished) Ctg. Teak wooden edge bit around the shutter, backside covered by the 18mm garjan Ply board, 2 nos standard handle for shutter & 3 nos standard lock for shutter and drawer, 25mm SS pipe 1.5 mm thick and including all necessary accessories for fitting & fixing all complete and accepted by the engineer-in-charge. All Ctg. teak wood frames must be protected from termites, cockroach and other insects. (Rate is excluding cost of polish/ paint etc. of any type). Wall Almirah with one side attire cabinet including locker and another side shelf made of 18 mm B.T Veneered board	sqm	5.297	9000.000	Nine Thousand	47673.000	Forty-Seven Thousand Six Hundred And Seventy-Three
06.	Civil	22.7	Supplying, fitting and fixing vertical venetian blinds made with glass fiber fabrics (foreign made) with supply of all the best quality materials (foreign	sqm	14.312	1200.000	One Thousand Two Hundred	17174.400	Seventeen Thousand One Hundred And Seventy-Four Point Four

			made) such as head rail (aluminium), end cap-set, rod tilt, sigger (stopper), runner, spacer (link), handling cord, ball chain, link chain, cord-weight weight-plate plastic washer, glass fiber fabrics, and head cap-set etc. all complete and accepted by the Engineer-in-charge.						
07.	Civil	6.3.1	Supplying, fitting and fixing country made homogeneous matt finished/ rustic floor tiles complying BDS ISO 13006: 2015, water absorption $\leq$ 0.5%, modulus of rupture (MOR) $\geq$ 27 N/mm ² , irrespective of color &/or design, with 20 mm thick cement sand (F.M. 1.2) mortar (1:4) base and raking out the joints with white cement including cutting and laying the tiles in proper way and finishing with care etc. all complete and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) In ground floor Matt or rustic floor tiles of size 400 mm x 400 mm and below	sqm	4.579	1300.000	One Thousand Three Hundred	5952.700	Five Thousand Nine Hundred And Fifty-Two Point Seven
08.	Civil	6.6.3	Supplying, fitting and fixing country made homogeneous matt finished/ rustic floor tiles complying BDS ISO 13006: 2015, water absorption $\leq$ 0.5%, modulus of rupture (MOR) $\geq$ 27 N/mm ² , irrespective of color &/or design, with 20 mm thick cement sand (F.M. 1.2) mortar (1:4) base and raking out the joints with white cement including cutting and laying the tiles in proper way and finishing with care etc. all complete and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) In ground floor Matt or rustic floor tiles of size 400 mm x 400 mm and below	sqm	15.048	1300.000	One Thousand Three Hundred	19562.400	Nineteen Thousand Five Hundred And Sixty-Two Point Four

09.	Civil	26.01.06	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 flushing 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	each	1.000	8000.000	Eight Thousand	8000.000	Eight Thousand
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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 fixture 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. Approx. 700~725 X 360~ 380 mm size, minimum 34.1 kg of weight; Equivalent to COTTO - C1470 / RAK: Venic or similar brand

10	Civil	26.13.19	Supplying of country made glazed vitreous W/H wash basin of any color including pedestal. 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	each	1.000	4500.000	Four Thousand Five Hundred	4500.000	Four Thousand Five Hundred
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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 fixture should be placed in position with heavy type C.I. Brackets. 30 mm dia PVC waste water pipe with brass coupling (not exceeding 750 mm in length), basin waste with chain plug including making holes in walls and floors and fitting with wall, screws and mending good the damages, finishing etc. all complete approved and accepted by the Engineer-in-charge.

Approx. 665 x 490 mm, minimum weight 29.5 kg

11	Civil	26.31.3	Supplying, fitting and fixing of best quality pillar cock made from copper or copper alloy, chromium plated materials. The faucet conforms BDS EN 200:2009. The faucet tap shall be free from any leakage, permeation and other abnormalities. The water hammer value shall be 1.47 Mpa or under. The faucet after it has been operated 100000 times it shall be free from a seat- leakage and shall satisfy the reverse flow preventing performance. The inside and outside surfaces of the faucet shall be smooth and be free from blowholes, fissures, remarkable flows or injurious defects. The chromium plating on the faucet shall be of class 2 grade 1. The final coating should be done with chromium of minimum 0.1 micron. The faucet shall be made leak proof and fixing in position with selected tape etc. all complete approved and accepted by the Engineer- in- charge. CP Single lever pillar cock (High top 8")	each	1.000	1500.000	One Thousand Five Hundred	1500.000	One Thousand Five Hundred
12	Civil	26.30.2	Supplying, fitting and fixing of best quality surface mounted or conceal stop cock/angle stop cock (lever or round headed) with wall flange chromium plated. The faucet conforms BDS EN 200:2009. The faucet tap shall be free from any leakage, permeation and other abnormalities. The water hammer value shall be 1.47 Mpa or under. The faucet after it has been operated 100000 times it shall be free from a seat- leakage and shall satisfy the	each	2.000	1500.000	One Thousand Five Hundred	3000.000	Three Thousand

			reverse flow preventing performance. The inside and outside surfaces of the faucet shall be smooth and be free from blowholes, fissures, remarkable flows or injurious defects. The chromium plating on the faucet shall be of class 2 grade 1. The final coating should be done with chromium of minimum 0.1 micron. The faucet shall be made leak proof and fixing in position with selected tape etc. , all complete approved and accepted by the Engineer- in- charge. 20 mm dia CP Concealed Stop Cock						
13	Electrical	M/R	Supply of following Split Air Conditioner as per Specification & direction of the Engineer in charge. Gree Split Air Conditioner Model: Cosmo GS-24XCOA3V-2 Ton	each	2.000	100000.000	One Lakh	200000.000	Two Lakh
14.	Electrical	7.3.1	REFRIGERENT COPPER PIPES WITH THERMAL INSULATION Supply & installation of copper refrigerant pipe complete with all necessary pipe fitting such as bends, tees, reducers, sockets, gate valves etc.as per drawing and direction. The concealed pipe shall be covered with pvc pipe with nitrile rubber insulation having thickness 19 mm for VRF system and thickness 13 mm for split type unit and be installed with proper hangers supports, clamp as per site condition and complying standard. Pipe work shall be tested unto the recommendation and direction of Engineer-in-charge. 1/4" dia copper tube	meter	15.000	300.000	Three Hundred	4500.000	Four Thousand Five Hundred

15	Electrical	7.3.2	REFRIGERENT COPPER PIPES WITH THERMAL INSULATION Supply & installation of copper refrigerant pipe complete with all necessary pipe fitting such as bends, tees, reducers, sockets, gate valves etc.as per drawing and direction. The concealed pipe shall be covered with pvc pipe with nitrile rubber insulation having thickness 19 mm for VRF system and thickness 13 mm for split type unit and be installed with proper hangers supports, clamp as per site condition and complying standard. Pipe work shall be tested unto the recommendation and direction of Engineer-in-charge. 5/8" dia copper tube	meter	15.000	300.000	Three Hundred	4500.000	Four Thousand Five Hundred
16	Electrical	1.13.1.1	Surface conduit wiring with the following Zero Halogen polyolefine (BYA-LS Zero Halogen) and Zero Halogen polyolefine ECC wire connecting at both ends through PVC conduit of reputed manufacturer complete with 18 SWC GP sheet pull box with 1 mm thick ebonite sheet cover. fixing materials. other accessories etc. including mending the damages good as required. All electrical contacts shall be of brass / copper connected through connector or soldering (no twisting shall be allowed) and cables shall be manufactured and tested according to IEC / BS / VDE standards along with relevant BDS standard as per detailed specification mentioned in Annexure-I The work shall be canied out as per direction &	meter	85.000	400.000	Four Hundred	34000.000	Thirty-Four Thousand

			approval of the Engineer In Charge. Cable manufacturer(s) must have valid type test certificate (within last seven years) from internationally accredited laboratory (like CPRI, KEMA etc) accepted / approved by the Engineer In Charge. IC-2x1.5 sqmm (Zero Halogen) cable with 1.5 sqmm (Zero Halogen) ECC wire through PVC pipe of minimum inner dia 20 mm having wall thickness of 1.5 mm						
17	Electrical	1.13.1.4	1C-2x4.0 sqmm (Zero Halogen) cable with 4 sqmm (Zero Halogen) ECC wire through PVC pipe of minimum inner dia 25 mm having wall thickness of 1.7 mm	meter	75.000	150.000	One Hundred And Fifty	11250.000	Eleven Thousand Two Hundred And Fifty
18	Electrical	1.13.1.4	1C-2x6.0 sqmm (Zero Halogen) cable with 6 sqmm (Zero Halogen) ECC wire through PVC pipe of minimum inner dia 25 mm having wall thickness of 1.7 mm	meter	67.000	180.000	One Hundred And Eighty	12060.000	Twelve Thousand And Sixty
19	Electrical	4.6.1	TPMCCB Providing & fixing on a prepared board 500 volt grade following triple-pole molded case circuit breaker (TPMCCB) with thermal over-current and instantaneous electromagnetic short circuit release provision, Manufactured / Assembled and tested in accordance with IEC / VDE / NEMA / BS / JIS along with relevant BDS IEC standard. TPMCCBs accepted / approved by the Engineer-in-charge. 15 - 100 Amps. (Minimum 10-KA)	each	2.000	1187.000	One Thousand One Hundred And Eighty-Seven	2374.000	Two Thousand Three Hundred And Seventy-Four
20	Civil	M/R	Glass paper	sft	1510.500	30.000	Thirty	45315.000	Forty-Five Thousand Three Hundred And Fifteen

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21	Electrical	M/R	Electrical fitting fixing & line repair.	item	1.000	10000.000	Ten Thousand	10000.000	Ten Thousand
							Grand Total:	1050000.100	Ten Lakh Fifty Thousand Point One

This Bill of Quantities is Electronically Signed by Mr. MD. UDDIN on behalf of E M CONSTRUCTION

DHAKA WATER SUPPLY & SEWERAGE AUTHORITY

Office of the Executive Engineer
Civil Maintenance Division
Dhaka WASA, Dhaka
6th floor, WASA Bhaban
98 Kazi Nazrul Islam avenue, Dhaka.

Name of the Work: Renovation works for the office of Medical center of Dhaka WASA.

Sl. No.	Item No.	Description of the item	Quantity	Unit	Rate	Amount
1	PWD-22 16.2.1	Interior standard acrylic emulsion paint (plastic or matt finish) of approved best quality and colour delivered from authorized local agent of the manufacturer in a sealed container; applying to interior wall and ceiling with surface preparation including cleaning drying, making free from dirt, grease, wax, removing all chalked and scaled materials, fungus, mending good the surface defects using sand paper and necessary scaffolding; applying necessary interior sealer of specified brand on prepared surface; then applying necessary interior putty of specified brand for levelling, spot filling, crack filling and cutting by sand paper/zero water paper; finally applying 2 coats of interior emulsion paint spreading by brush/roller/spray & necessary scaffolding etc. upto desired finishing, elapsing specified time for drying or recoating; all complete in all floors and accepted by the Engineer-in-charge.	365.520	sqm	258.000	94304.160
2	PWD-22 14.13	Supplying fitting and fixing of aluminium fixed fan light as per the U.S. Architectural Aluminium Manufacturer's Association (AAMA) standard specification and BDS 1879:2014 having minimum 1.2 mm thick fixed bottom (size 76.2 mm, 38.10 mm, 0.640 kg/m), minimum 1.2 mm thick (17.40 mm, 31.78 mm bottom cover 0.250 kg/m) and minimum 1.2 mm thick groove cover (size 57.15mm, 15.80 mm, 0.362 kg/m) and minimum 1.2 mm thick top and side section (76.20 mm, 16 mm, 38.10 mm, 0.769 kg/m) fixed with above mentioned frames and all aluminium members will be anodized to aluminium bronze/silver/ss/black colour with a coat not less than 15 microns in thickness or powder coated to any colour with a coat not less than 25 microns in thickness and density of 4 mg per square cm etc. including all accessories, neoprene, sealant, nut and bolt etc. complete in all respect as per drawing and accepted by the Engineer-in-charge.				
	14.13.2	Powder coated to any colour	48.780	sqm	6377.000	311070.060
3	PWD-22 14.16	Supplying, fitting and fixing in Aluminium door frames, windows, partitions and curtain wall distortion free glass of approved quality and shade including cost of fitting fixing all necessary accessories etc. complete in all respect as per drawing and accepted by the Engineer-in-charge.				
	14.16.1.4.1	5 mm thick reflective glass	48.780	sqm	1659.000	80926.020
4	PWD-22 22.4	Supplying, fitting and fixing special quality 10 mm thick clear tempered glass door including all accessories, 1 set floor mounted auto door closure, 2 nos. clamping devices, 1 set locking device, top hinge and handle etc. complete in all respect as per drawing and direction of the Engineer-in-charge.	3.253	sqm	15816.000	51449.448
5	PWD-22 18.6.1	Supplying, fitting and fixing Wall Almirah with one side attires cabinet including locker and another side shelf of Depth-1'-8" made by 18 mm B.T Veneered/ B.T. ply/ B.T marine ply board on 2.50"x2.50" (Finished) Ctg. Teak Wooden Outer Frame, 1.50" x 1.50" (Finished) Ctg. Teak wooden frame for shelf, 1.25" x 1.25" (Finished) Ctg. Teak wooden edge bit around the shutter, backside covered by the 18mm garjan Ply board, 2 nos standard handle for shutter & 3 nos standard lock for shutter and drawer, 25mm SS pipe 1.5 mm thick and including all necessary accessories for fitting & fixing all complete and accepted by the engineer-in-charge. All Ctg. teak wood				
	18.6.1.1	Wall Almirah with one side attire cabinet including locker and another side shelf made of 18 mm B.T Veneered board	5.297	sqm	18300.000	96935.100

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6	PWD-22 22.7	Supplying, fitting and fixing vertical venetian blinds made with glass fiber fabrics (foreign made) with supply of all the best quality materials (foreign made) such as head rail (aluminium), end cap-set, rod tilt, sigger (stopper), runner, spacer (link), handling cord, ball chain, link chain, cord-weight weight-plate plastic washer, glass fiber fabrics, and head cap-set etc. all complete and accepted by the Engineer-in-charge.	14.312	sqm	2029.000	29039.048
7	PWD-22 6.3	Supplying, fitting and fixing country made homogeneous matt finished/ rustic floor tiles complying BDS ISO 13006: 2015, water absorption $\leq 0.5\%$, modulus of rupture (MOR) ≥ 27 N/mm ² , irrespective of color &/or design, with 20 mm thick cement sand (F.M. 1.2) mortar (1:4) base and raking out the joints with white cement including cutting and laying the tiles in proper way and finishing with care etc. all complete and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) In ground				
	6.3.1	Matt or rustic floor tiles of size 400 mm x 400 mm and below	4.579	sqm	1702.000	7793.458
8	PWD-22 6.6	Supplying, fitting and fixing country made homogeneous matt finished/ rustic floor tiles complying BDS ISO 13006: 2015, water absorption $\leq 0.5\%$, modulus of rupture (MOR) ≥ 27 N/mm ² , irrespective of color &/or design, with 20 mm thick cement sand (F.M. 1.2) mortar (1:4) base and raking out the joints with white cement including cutting and laying the tiles in proper way and finishing with care etc. all complete and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) In ground floor				
	6.6.3	Matt or rustic floor tiles of size 400 mm x 400 mm and below	15.048	sqm	1845.000	27763.560
9	PWD-22 26.01	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 flushing 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.				
	26.01.6	Approx. 700~725 X 360~ 380 mm size, minimum 34.1 kg of weight; Equivalent to	1.000	nos	17816.000	17816.000
10	PWD-22 26.13	Supplying of country made glazed vitreous W/H wash basin of any color including pedestal. 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 fixture should be placed in position with heavy type C.I. Brackets. 30 mm dia PVC waste water pipe with brass coupling (not exceeding 750 mm in length), basin waste with chain plug including making holes in walls and floors and fitting with wall, screws and mending good the damages, finishing etc. all complete approved and accepted by the Engineer-in-charge.				
	26.13.19	Approx. 665 x 490 mm, minimum weight 29.5 kg	1.000	nos	7626.000	7626.000

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11	PWD-22 26.31	Supplying, fitting and fixing of best quality pillar cock made from copper or copper alloy, chromium plated materials. The faucet conforms BDS EN 200:2009. The faucet tap shall be free from any leakage, permeation and other abnormalities. The water hammer value shall be 1.47 Mpa or under. The faucet after it has been operated 100000 times it shall be free from a seat- leakage and shall satisfy the reverse flow preventing performance. The inside and outside surfaces of the faucet shall be smooth and be free from blowholes, fissures, remarkable flows or injurious defects. The chromium plating on the faucet shall be of class 2 grade 1. The final coating should be done with chromium of minimum 0.1 micron. The faucet shall be made leak proof and fixing in position with selected tape etc. all complete approved and accepted by the Engineer- in- charge.				
	26.31.3	CP Single lever pillar cock (High top 8")	1.000	nos	3069.000	3069.000
12	PWD-22 26.30	Supplying, fitting and fixing of best quality surface mounted or conceal stop cock/angle stop cock (lever or round headed) with wall flange chromium plated. The faucet conforms BDS EN 200:2009. The faucet tap shall be free from any leakage, permeation and other abnormalities. The water hammer value shall be 1.47 Mpa or under. The faucet after it has been operated 100000 times it shall be free from a seat- leakage and shall satisfy the reverse flow preventing performance. The inside and outside surfaces of the faucet shall be smooth and be free from blowholes, fissures, remarkable flows or injurious defects. The chromium plating on the faucet shall be of class 2 grade 1. The final coating should be done with chromium of minimum 0.1 micron. The faucet shall be made leak proof and fixing in position with selected tape etc. , all complete approved and accepted by the Engineer- in- charge.				
	26.30.2	20 mm dia CP Concealed Stop Cock	2.000	nos	1202.000	2404.000
13	M/R	Supply of following Split Air Conditioner as per Specification & direction of the Engineer in charge. Gree Split Air Conditioner Model: Cosmo GS-24XCOA3V-2 Ton	2	Each	126936.000	253872.000
14	PWD-22 7.3	REFRIGERENT COPPER PIPES WITH THERMAL INSULATION Supply & installation of copper refrigerant pipe complete with all necessary pipe fitting such as bends, tees, reducers, sockets, gate valves etc.as per drawing and direction. The concealed pipe shall be covered with pvc pipe with nitrile rubber insulation having thickness 19 mm for VRF system and thickness 13 mm for split type unit and be installed with proper hangers supports, clamp as per site condition and complying standard. Pipe work shall be tested unto the recommendation and direction of Engineer-in-charge.				
	7.3.1	1/4" dia copper tube	15	m	344.000	5160.000
15	7.3.2	5/8" dia copper tube	15	m	466.000	6990.000
16	PWD-22 1.13	Surface conduit wiring with the following Zero Halogen polyolefine (BYA-LS Zero Halogen) and Zero Halogen polyolefine ECC wire connecting at both ends through PVC conduit of reputed manufacturer complete with 18 SWC GP sheet pull box with i mm thick ebonite sheet cover. fixing materials. other accessories etc. including mending the damages good as required. All electrical contacts shall be of brass / copper connected through connector or soldering (no twisting shall be allowed) and cables shall be manufactured and tested according to IEC / BS / VDE standards along with relevant BDS standard as per detailed specification mentioned in Annexure-I The work shall be canied out as per direction & approval of the Engineer In Charge				
	1.13.1	Cable manufacturer(s) must have valid type test certificate (within last seven years) from internationally accredited laboratory (like CPRI, KEMA etc) accepted / approved by the Engineer In Charge				
	1.13.1.1	IC-2x1.5 sqmm (Zero Halogen) cable with 1.5 sqmm (Zero Halogen) ECC wire through PVC pipe of minimum inner dia 20 mm having wall thickness of 1.5 mm	85	m	189.000	16065.000

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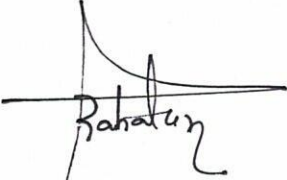
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17	1.13.1.4	1C-2x4.0 sqmm (Zero Halogen) cable with 4 sqmm (Zero Halogen) ECC wire through PVC pipe of minimum inner dia 25 mm having wall thickness of 1.7 mm	75	m	350.000	26250.000
18	1.13.1.4	1C-2x6.0 sqmm (Zero Halogen) cable with 6 sqmm (Zero Halogen) ECC wire through PVC pipe of minimum inner dia 25 mm having wall thickness of 1.7 mm	67	m	463.000	31021.000
19	PWD-22 4.6	TPMCCB Providing & fixing on a prepared board 500 volt grade following triple-pole molded case circuit breaker (TPMCCB) with thermal over-current and instantaneous electromagnetic short circuit release provision, Manufactured / Assembled and tested in accordance with IEC / VDE / NEMA / BS / JIS along with relevant BDS IEC standard. TPMCCBs accepted / approved by the Engineer-in-charge.				
	4.6.1	15 - 100 Amps. (Minimum 10-KA)	2	each	7466.000	14932.000
20	M/R	Glass paper	1510.500	sft	45.000	67972.500
21	M/R	Electrical fitting fixing & line repair.	1.000	item	10000.000	10000.000
					Total : TK.	1162458.354
					Say Total : TK.	1162458.000

In word: Eleven lac sixty two thousand four hundred fifty eight taka only


 11.12
 2025
 মোহাম্মদ রিয়াজুল ইসলাম
 উপ-সহকারী প্রকৌশলী
 সি এম বিভাগ
 ঢাকা ওয়াশা


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