

M/S. F B Enterprise

Section 6. Bill of Quantities

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	11.1.1.1	Supplying and making door and window frames (Chowkat) for all floors in/c wall side grove cutting, moulding by CNC machine or any other means with matured seasoned wood of required size including painting two coats of coal tar to the surface in contact with wall, fitting and fixing in position etc. all complete and accepted by the Engineer-in-charge. (All sizes of wood are finished). Frame made from seasoned Mehgoni wood (Chemically treated)Upto Size 0'-2.5" x 0'-6" (finished)	cum	0.206	80000.000	Eighty Thousand	16480.000	Sixteen Thousand Four Hundred And Eighty
02	Civil	12.1.3.2	Supplying, fitting and fixing of 38 mm thick well matured seasoned (moisture content should be between 12% to 16%) solid wood single leaf door shutter having stile section 100mm x 38mm, top rail section 125mm x 38mm, lock rail section 100mm x 38mm and bottom rail section 225mm x 38mm (made from minimum 250mm wide plank) with 4nos 100mm long, 3mm thick hinge, 12mm dia 250mm long	sqm	8.665	12000.000	Twelve Thousand	103980.000	One Lakh Three Thousand Nine Hundred And Eighty

			tower bolt, 12mm dia 200mm long socket bolt, 2nos 150mm long handle, hinged cleats and buffer blocks. All complete in all floors and accepted by the Engineer-in-charge. (All sizes of wood are finished) Chattogram Teak (Brass Fittings)						
03	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- incharge.	sqm	410.183	300.000	Three Hundred	123054.900	One Lakh Twenty- Three Thousand And Fifty- Four Point Nine
04	Civil	14.8.3.1	Supplying, fitting and fixing of aluminium sliding window with mosquito mesh as per the U.S. Architectural Aluminium	sqm	10.874	10000.000	Ten Thousand	108740.000	One Lakh Eight Thousand Seven Hundred And Forty

Manufacturer's Association (AAMA) standard specification and BDS 1879:2014 having minimum 1.2 mm thick outer bottom (95.00 mm, 38.00 mm outer bottom, 0.72 kg/m), minimum 1.2 mm thick outer top (95.00 mm, 28.5 mm outer top, 0.75 kg/m), minimum 1.2 mm thick shutter top (size 33 mm, 26.80 mm, 0.42 kg/m), minimum 1.2 mm thick shutter bottom (size 60mm, 24.40 mm, 0.589 kg/m), minimum 1.2 mm thick outer side (95.00 mm, 19.50 mm outer side , 0.591 kg/m), minimum 1.2 mm thick shutter lock (size 49.20 mm 25.80 mm, 0.543 kg/m) and minimum 1.2 mm thick inter lock (size 34.40 mm, 32.13 mm, 0.562 kg/m) sections 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 like sliding door key lock, sliding door wheel, sliding door mohiar, sliding door neoprene, bolts and nuts including sealants, keeping provision for fitting 5 mm thick glass including labour charge for fitting of accessories, making grooves and mending good damages, carriage, and electricity complete in all respect as per drawing and accepted by the Engineer-in-charge.

			Size up to: 762 mm x 610 mm Anodized to any colour						
05	Civil	12.21.1	Supplying, fitting and fixing mortice door lock with lever handle of approved quality including all necessary tools and accessories etc. all complete approved and accepted by the Engineer-in-charge. Standard Quality	nos	4.000	1500.000	One Thousand Five Hundred	6000.000	Six Thousand
06	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	10.595	12000.000	Twelve Thousand	127140.000	One Lakh Twenty-Seven Thousand One Hundred And Forty
07	Civil	22.2.2	Supplying, fitting and fixing of best quality of different dia foreign made aluminium pipe curtain rail for door	rm	14.759	800.000	Eight Hundred	11807.200	Eleven Thousand Eight Hundred And

			and window including cutting and fitting-fixing as per required measurement and supplying necessary screws, SS clamp, electric drill and rowel plug including charge of electricity etc. all complete and accepted by the Engineer-in-charge. 25 mm dia Aluminium pipe curtain rail						Seven Point Two
08	Civil	16.3.1	Standard synthetic enamel paint of approved best quality and colour delivered from authorized local agent of the manufacturer in a sealed container, having high water resistance, high bondability, flexibility property; using specified brand thinner applying to metallic or wooden surface by brass/roller/spray in 2 coats over single coat anti-corrosive coating including cleaning, drying, making free from dirt, grease, wax, removing all chalked and scaled materials, all complete in all floors and accepted by the Engineer-in-charge.	sqm	21.329	300.000	Three Hundred	6398.700	Six Thousand Three Hundred And Ninety-Eight Point Seven
09	Civil	6.3.1	Supplying, fitting and fixing country made homogeneous matt finished/ rustic floor tiles complying BDS ISO 13006: 2015, water absorption ≤ 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	sqm	103.717	1600.000	One Thousand Six Hundred	165947.200	One Lakh Sixty-Five Thousand Nine Hundred And Forty-Seven Point Two

			Matt or rustic floor tiles of size 400 mm x 400 mm and below						
10	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	41.636	1600.000	One Thousand Six Hundred	66617.600	Sixty-Six Thousand Six Hundred And Seventeen Point Six
11	Civil	16.10.1	Wood varnishing of approved quality and colour delivered from authorized local agent of the manufacturer in a sealed container using brand specified thinner to door and window frame and shutter in three coats, applied with brush including cleaning oil, grease, dirt, making dry, sand papering, if required washing with weak detergent solution, stripping out the colour straps, finishing the surface, etc. all complete in all floors and accepted by the Engineer-in-charge. Yacht	sqm	29.275	350.000	Three Hundred And Fifty	10246.250	Ten Thousand Two Hundred And Forty-Six Point Two Five
12	Civil	26.01.6	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	nos	2.000	15000.000	Fifteen Thousand	30000.000	Thirty Thousand

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. 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

13	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 be greater than 0.5% of the ware when dry. When tested with chemical solutions (Acetic acid, Citric acid, Detergent, Hydrochloric acid, Sodium hydroxide,	Nos	3.000	8000.000	Eight Thousand	24000.000	Twenty-Four Thousand
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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

14	Civil	26.31.3	Supplying, fitting and fixing of best quality pillar cock made from copper or copper alloy, chromium	Nos	4.000	3500.000	Three Thousand Five Hundred	14000.000	Fourteen Thousand
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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")

15	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 reverse flow preventing performance. The inside and outside	Nos	4.000	1200.000	One Thousand Two Hundred	4800.000	Four Thousand Eight Hundred
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			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						
16	Civil	M/R	Civil Work	item	1.000	55000.450	Fifty-Five Thousand Point Four Five	55000.450	Fifty-Five Thousand Point Four Five
17	Electrical	M/R	Electrical fitting fixing & line repair.	item	1.000	24886.800	Twenty-Four Thousand Eight Hundred And Eighty-Six Point Eight	24886.800	Twenty-Four Thousand Eight Hundred And Eighty-Six Point Eight
							Grand Total:	899099.100	Eight Lakh Ninety-Nine Thousand And Ninety-Nine Point One

*** Note:** All applicable taxes, custom duties, VAT and other levies payable by the Contractor under the Contract shall be included in the unit prices submitted by the Tenderer.

This Section 6. Bill of Quantities is Electronically Signed by Mr. Abdul Motallab on behalf of M/S. F B Enterprise

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.

(8)

Name of the Work: Repair and maintenance works of officers quarter (Asha, Unit-501) at Dhanmondi officers quarter Compound, Dhaka WASA.

Sl. No.	Item No.	Description of the item	Quantity	Unit	Rate	Amount
1	PWD-22 11.1	Supplying and making door and window frames (Chowkat) for all floors in/c wall side grove cutting, moulding by CNC machine or any other means with matured seasoned wood of required size including painting two coats of coal tar to the surface in contact with wall, fitting and fixing in position etc. all complete and accepted by the Engineer-in-charge. (All sizes of wood are finished).				
	11.1.1	Frame made from seasoned Mehgoni wood (Chemically treated)				
	11.1.1.1	Upto Size 0'-2.5" x 0'-6" (finished)	0.206	cum	135509.001	27914.854
2	PWD-22 12.1	Supplying, fitting and fixing of 38 mm thick well matured seasoned (moisture content should be between 12% to 16%) solid wood single leaf door shutter having stile section 100mm x 38mm, top rail section 125mm x 38mm, lock rail section 100mm x 38mm and bottom rail section 225mm x 38mm (made from minimum 250mm wide plank) with 4nos 100mm long, 3mm thick hinge, 12mm dia 250mm long tower bolt, 12mm dia 200mm long socket bolt, 2nos 150mm long handle, hinged cleats and buffer blocks. All complete in all floors and accepted by the Engineer-in-charge. (All sizes of wood are finished)				
	12.1.3.2	Chattogram Teak (Brass Fittings)	8.665	sqm	13867.001	120157.564
3	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.	410.183	sqm	258.001	105827.624
4	PWD-22 14.8.	Supplying, fitting and fixing of aluminium sliding window with mosquito mesh as per the U.S. Architectural Aluminium Manufacturer's Association (AAMA) standard specification and BDS 1879:2014 having minimum 1.2 mm thick outer bottom (95.00 mm, 38.00 mm outer bottom, 0.72 kg/m), minimum 1.2 mm thick outer top (95.00 mm, 28.5 mm outer top, 0.75 kg/m), minimum 1.2 mm thick shutter top (size 33 mm, 26.80 mm, 0.42 kg/m), minimum 1.2 mm thick shutter bottom (size 60mm, 24.40 mm, 0.589 kg/m), minimum 1.2 mm thick outer side (95.00 mm, 19.50 mm outer side, 0.591 kg/m), minimum 1.2 mm thick shutter lock (size 49.20 mm 25.80 mm, 0.543 kg/m) and minimum 1.2 mm thick inter lock (size 34.40 mm, 32.13 mm, 0.562 kg/m) sections 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 like sliding door key lock, sliding door wheel, sliding door mohiar, sliding door neoprene, bolts and nuts including sealants, keeping provision for fitting 5 mm thick glass including labour charge for fitting of accessories, making grooves and mending good damages, carriage, and electricity complete in all respect as per drawing and accepted by the Engineer-in-charge.				
	14.8.3	Size up to: 762 mm x 610 mm				
	14.8.3.1	Anodized to any colour	10.874	sqm	12106.001	131640.655

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5	PWD-22 12.21	Supplying, fitting and fixing mortice door lock with lever handle of approved quality including all necessary tools and accessories etc. all complete approved and accepted by the Engineer-in-charge.				
	12.21.1	Standard Quality	4.000	nos	1242.001	4968.004
6	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	10.595	sqm	18300.000	193888.500
7	PWD-22 22.2	Supplying, fitting and fixing of best quality of different dia foreign made aluminium pipe curtain rail for door and window including cutting and fitting-fixing as per required measurement and supplying necessary screws, SS clamp, electric drill and rowel plug including charge of electricity etc. all complete and accepted by the Engineer-in-charge.				
	22.2.2	25 mm dia Aluminium pipe curtain rail	14.759	rm	792.001	11689.143
8	PWD-22 16.3.1	Standard synthetic enamel paint of approved best quality and colour delivered from authorized local agent of the manufacturer in a sealed container, having high water resistance, high bondability, flexibility property; using specified brand thinner applying to metallic or wooden surface by brass/roller/spray in 2 coats over single coat anti-corrosive coating including cleaning, drying, making free from dirt, grease, wax, removing all chalked and scaled materials, all complete in all floors and accepted by	21.329	sqm	229.001	4884.362
9	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	103.717	sqm	1702.001	176526.438
10	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	41.636	sqm	1845.001	76818.462
11	PWD-22 16.10	Wood varnishing of approved quality and colour delivered from authorized local agent of the manufacturer in a sealed container using brand specified thinner to door and window frame and shutter in three coats, applied with brush including cleaning oil, grease, dirt, making dry, sand papering, if required washing with weak detergent solution, stripping out the colour straps, finishing the surface, etc. all complete in all floors and accepted by the Engineer-in-charge.				
	16.10.1	Yacht	29.275	sqm	208.001	6089.229

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12	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	2.000	nos	17816.001	35632.002
13	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	3.000	nos	7626.001	22878.003
14	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")	4.000	nos	3069.001	12276.004

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Signature

15	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	4.000	nos	1202.001	4808.004
16	M/R	Civil Work	1.000	item	33000.001	33000.001
17	M/R	Electrical fitting fixing & line repair.	1.000	item	30000.001	30000.001
					Total : TK.	998998.850
					Say Total : TK.	998999.000

In word: Nine lakh ninety eight thousand nine hundred ninety nine taka only

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2025

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

Saug
02.09.25

মুজা সাহা
নির্বাহী প্রকৌশলী
সি এম বিভাগ
ঢাকা ওয়াশা।