

NAME OF WORK:-CONSTRUCTION OF MORDERN PAY AND USE TOILET AT SALLAKE METRO STATION(BESIDE APPOLO HOSPITAL)

ELECTRICAL WORKS

DETAILED ESTIMATE

Estimate No-KMC/US/...../ Of 202 -2

Sl. No	Sch. Item	Description of item	No	L	B	Ht.	Quantity	Unit	Rate
1	PWD Electrical works. Nov-2017. D-9/11	Supplying and fixing MCB SS enclosure with IP-20/30 protection, powder coated provision for two/four pole MCB, concealed in wall after cutting the wall & mending good the damages to original finish incl. painting, connection & provision for earthing attachment ; 2 Way					1.00	Each	270.00
2	PWD Electrical works. Nov-2017. D-5/6	Supplying and fixing 240/415 V MCB Isolator on din rail of existing DBs and necessary connection. DP, L&T 40 A					1.00	Each	315.00
3	PWD 2017, Item No. 2b, Page No. E11	Distribution wiring in 2 x 22/0.3 (1.5 sqmm) single core stranded 'FR' PVC insulated & unsheathed copper wire (Brand approved by EIC) in 20mm size PVC rigid conduit 'FR' (Precision make), with 1x22/0.3 (1.5 sqmm) single core stranded 'FR' PVC insulated & unsheathed copper wire for ECC, to light/fan/call bell points with Piano Key type switch fixed on MS CRC sheet metal (16 SWG) switch board cum JB on wall complete with 2 no. suitable size "Ph & N" copper bar incl. bakelite/Perspex (wall matching color) top cover 3 mm thick and incl. 175mmx100mmx65mm inspection box, making earthing attachment, painting the MS box and mending good the damages to original finish Average run 6 mtr					12.00	Point	691.00

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Executive Engineer (Civil)
Uttaran Services Department
K. M. C.

Sl. No	Sch. Item	Description of item	No	L	B	Ht.	Quantity	Unit	Rate
4	PWD Electrical works. Nov-2014, E-11/2/c	Distribution wiring in 2 x 22/0.3 (1.5 sqmm) single core stranded 'FR' PVC insulated & unsheathed copper wire (Brand approved by EIC) in 20mm size PVC rigid conduit 'FR' (Precision make), with 1x22/0.3 (1.5 sqmm) single core stranded 'FR' PVC insulated & unsheathed copper wire for ECC, to light/fan/call bell points with Piano Key type switch fixed on MS CRC sheet metal (16 SWG) switch board cum JB on wall complete with 2 no. suitable size "Ph & N" copper bar incl. bakelite/Perspex (wall matching color) top cover 3 mm thick and incl. 175mmx100mmx65mm inspection box, making earthing attachment, painting the MS box and mending good the damages to original finish Average run 8 mtr					12.00	Point	849.00
5	PWD Electrical works. Nov-2017, E-11/2/e	Distribution wiring in 2 x 22/0.3 (1.5 sqmm) single core stranded 'FR' PVC insulated & unsheathed copper wire (Brand approved by EIC) in 20mm size PVC rigid conduit 'FR' (Precision make), with 1x22/0.3 (1.5 sqmm) single core stranded 'FR' PVC insulated & unsheathed copper wire for ECC, to light/fan/call bell points with Piano Key type switch fixed on MS CRC sheet metal (16 SWG) switch board cum JB on wall complete with 2 no. suitable size "Ph & N" copper bar incl. bakelite/Perspex (wall matching color) top cover 3 mm thick and incl. 175mmx100mmx65mm inspection box, making earthing attachment, painting the MS box and mending good the damages to original finish Average run 10 mtr					9.00	Point	1007.00
6	PWD Electrical works. Nov-2017, E-11/2/e	Distribution wiring in 2 x 22/0.3 (1.5 sqmm) single core stranded 'FR' PVC insulated & unsheathed copper wire (Brand approved by EIC) in 20mm size PVC rigid conduit 'FR' (Precision make), with 1x22/0.3 (1.5 sqmm) single core stranded 'FR' PVC insulated & unsheathed copper wire for ECC, to light/fan/call bell points with Piano Key type switch fixed on MS CRC sheet metal (16 SWG) switch board cum JB on wall complete with 2 no. suitable size "Ph & N" copper bar incl. bakelite/Perspex (wall matching color) top cover 3 mm thick and incl. 175mmx100mmx65mm inspection box, making earthing attachment, painting the MS box and mending good the damages to original finish Average run 12 mtr					12.00	Point	1165.00

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color) top cover 3 mm thick
 175mmx100mmx65mm inspection box, making earthing
 attachment, painting the MS box and mending good the
 damages to original finish Average run 12 mtr

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Sl. No	Sch. Item	Description of item	No	L	B	HT	Quantity	Unit	Rate
7	PWD Electrical works. Nov-2017. E-15/4/a	Distribution wiring in 1.1 KV grade 22/0.3 (1.5 sqmm) single core stranded 'FR' PVC insulated & unsheathed copper wire (Brand approved by EIC) in 20mm size PVC rigid conduit 'FR' (Precision make), with 1.1 KV grade 1 x 22/0.3 (1.5 sqmm) single core stranded 'FR' PVC insulated & unsheathed copper wire as ECC, to 5A 3 pin flush type plug socket & Piano Key type switch fixed on MS CRC sheet metal (16 SWG) switch board cum JB on wall incl. bakelite/Perspex (wall matching color) top cover 3 mm thick and incl. painting the MS box and mending good the damages to original finish (a) on board					4.00	Point	67.00
8	PWD Electrical works. Nov-2017. E-15/4/f	Distribution wiring in 1.1 KV grade 22/0.3 (1.5 sqmm) single core stranded 'FR' PVC insulated & unsheathed copper wire (Brand approved by EIC) in 20mm size PVC rigid conduit 'FR' (Precision make), with 1.1 KV grade 1 x 22/0.3 (1.5 sqmm) single core stranded 'FR' PVC insulated & unsheathed copper wire as ECC, to 5A 3 pin flush type plug socket & Piano Key type switch fixed on MS CRC sheet metal (16 SWG) switch board cum JB on wall incl. bakelite/Perspex (wall matching color) top cover 3 mm thick and incl. painting the MS box and mending good the damages to original finish (f) Average run 7.5 mtr					5.00	Point	775.00

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Sl. No	Sch. Item	Description of item	No	L	B	Ht.	Quantity	Unit	Rate
9	PWD Electrical works. Nov-2017. E-18/9/b	Supply & Fixing 240 V, 16 A, 3 pin Modular type plug socket (Brand approved by EIC) with 16A Modular type switch, without plug top on 4 Module GI Modular type switch board with top cover plate flushed in wall incl. S&F switch board and cover plate and making necy. connections with PVC Cu wire and earth continuity wire etc.					2.00	Each	456.00
10	PWD Electrical works. Nov-2017. E-14/1/a/ii	Distribution wiring in 1.1 KV single core stranded 'FR' PVC insulated & unsheathed copper wire (Brand approved by EIC) in 20mm size PVC rigid conduit 'FR' (Precision make) incl. necy. fittings as required $2 \times 36/0.3 (2.5 \text{ s/mm}) + 1 \times 22/0.3 (1.5 \text{ s/mm})$					95.00	MTR	119.00
11	PWD Electrical works. Nov-2017. E-14/1/a/iii	Distribution wiring in 1.1 KV single core stranded 'FR' PVC insulated & unsheathed copper wire (Brand approved by EIC) in 20mm size PVC rigid conduit 'FR' (Precision make) incl. necy. fittings as required $2 \times 56/0.3 (4 \text{ s/mm}) + 1 \times 36/0.3 (2.5 \text{ s/mm})$					65.00	MTR	149.00
12	PWD Electrical works. Nov-2017. E-14/1/a/i	Distribution wiring in 1.1 KV single core stranded 'FR' PVC insulated & unsheathed copper wire (Brand approved by EIC) in 20mm size PVC rigid conduit 'FR' (Precision make) incl. necy. fittings as required $2 \times 22/0.3 (1.5 \text{ s/mm}) + 1 \times 22/0.3 (1.5 \text{ s/mm})$					35.00	RM	102.00
13	PWD Electrical works. Nov-2017. D-10/13	Supplying and fixing double-door SPN MCB Distribution Board with IP-42/43 protection, concealed in wall after cutting the wall & mending good the damages to original finish incl. Inter connection with suitable size of copper wire and neutral link & provision for earthing attachment. L&T make 2+6 way; Enclosure (LTSD08N)					2.00	NO.	1202.00
14	PWD Electrical works. Nov-2017.D-6/7	Supplying and fixing 240/415 V MCB of Breaking capacity 10kA & C characteristics on din rail of existing DBs and necessary connection. L&T make DP 6-32 Amp.					2.00	NO	478.00
15	PWD Electrical works. Nov-2017. D-6/7	Supplying and fixing 240/415 V MCB of Breaking capacity 10kA & C characteristics on din rail of existing DBs and necessary connection. L&T make SP 6-32 A					6.00	NO	160.00
16	PWD Electrical works. Nov-2014. F-4/7 a	Supplying and fixing compression type gland complete with brass gland, brass ring & rubber ring for dust & moisture-proof entry of XLPE/PVC armoured cables as below : For 2 core upto 10 s/mm					3.00	Each	115.00

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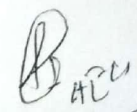
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Sl. No	Sch. Item	Description of item	No	L	B	Ht.	Quantity	Unit	Rate
17	PWD Electrical works. Nov-2014. F-5/8b	Finishing the end of following XLPE/PVC armoured cables by crimping method incl. supplying and fixing solderless socket (Dowels make), tapes, anticorrosive paste & jointing materials: <u>2 core 10 sqmm cable</u>					4.00	Each	34.00
18	PWD Electrical works. Nov-2014. F-1/2a	Laying of cable upto 2 core 25 sqmm on wall/surface incl. S & F MS saddles with earthing attachment in 10 SWG GI (Hot Dip) Wire, making holes etc. as necy. mending good damages and painting					45.00	RM	57.00
19	UDMA, E&M, 2018, 11/1/c(i)	Supplying of 1.1 KV. Grade PVC insulated Conductor of following cables (make: Polycab/ Gloster/Havells): <u>2 core 10 sq.mm.</u>					55.00	RM	101.00
20	KMC Fair Rate 2018	Supply of street lighting LED luminaire 70 w to 80 w having top opening cover <u>make: Crompton, Philips, Havells</u>					2.00	Each	9700.00
21	PWD Electrical works. Nov-2017. D-14/32/a	Supply & Fixing louver shutter on wall with necy. bolts & nuts (6 mm dia x 62 mm long) <u>For Al 23 cm Exhaust fan (9")</u>					6.00	Each	152.00
22	PWD Electrical works. Nov-2017.K-2/67	Two way Circular Box & cover					8.00	Each	15.00
23	PWD Electrical works. Nov-2017.K-2/69	3 way Ceiling Rose/Batten Holder					14.00	Each	18.30
24	UDMA, E&M, 2018, 15/15/a	Supply & delivery of the following 50 Hz, AC, Direct on Line Starter of continuous duty in sheet steel enclosure (make L&T/ABB/SCHNEIDER): <u>2 HP Single Phase (Max. Relay range 10.5-17.5 Amp)</u>					4.00	Each	903.00

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Sl. No	Sch. Item	Description of item	No	L	B	Ht.	Quantity	Unit	Rate
25	KMC Fair Rate 2018	<p>WATER PUMP Domestic Water Transfer pumps and relevant piping and accessories. Note :- All pumps to be provided with mechanical seal and wearing ring. Performance curve should be got approved before placing the order. (All pumps should be supplied with base frame). Supply, installation, testing and commissioning KIRLOSKAR / BE / GRUNDFOSS / WILO / DP make Pump motor set for lifting / forcing water from a chamber of U.G. Reservoir to OHT placed on building roof, of required drive (Motor HP), having discharge capacity and pumping head as described below with support clamp/lifting device separate or common base frame with all electrical accessories, with over load protection relay power cable and control cable from MCC to respective motors, earthing including other accessories (recommended by manufacturer) etc., such as 100 mm dia. pressure gauge (range 0-15 Kg./Sq.cm.) with control cock fitted on delivery line, coupling of required size on suction and flexible removable type (Flanged) coupling on delivery end of pump, required M.S. galvanised supporting frame complete operational. (a) Lift Pump : (Domestic) (i) A set of two nos of open well Submersible Pump Motor set (1 operating, 1 standby) : Duty Condition of each pump 6 Kl./Hr. @ of 30 m Pumping head from UGR to over head tank.</p>					1.00	Set of 2	36000.00
26	PWD Electrical works. Nov-2017.H-5/5	<p>Supplying & Fixing GI waterproof type looping cable box size 200x150x100 mm deep having 4 mm thick comprising of one 250 V 15 A kit-kat fuse unit, one NL on porcelain insulator, one compression type brass cable gland for upto 2- core 16 sqmm PVC/A cable and having lined with rubber gasketed GI top cover with brass machine screws etc., earthing terminal with lug, on steel tubular pole near base, including S&F 40x6 mm thick, MS clamps with bolts, nuts etc. including painting with anticorrosive paint</p>					4.00	NO	458.00
27	PWD Electrical works. Nov-2017. H-5/3	<p>Fixing outdoor type fluorescent/SV/MV light fitting on pole including S&F 40 mm dia x 1.68 mts. long GI Pipe (ISI-Medium) bracket with 40 mmx10 mm thick, MS clamp etc. and providing wiring with 2x1/1.40 PVC insulated & sheathed wire (single core) partly in GI conduit & partly through above bracket from OH line to the fitting, without control switch, incl. making connections and painting</p>					4.00	NO	1400.00

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28	PWD 2017. Item No. 7/a Page No. C-1	Fixing only starters (for motor control) on flat iron frame / angle iron frame on wall, Star-Delta starter for motor (above 5 HP upto 15 HP). On angle iron frame (for higher rating)					4.00	Each	215.00
29	PWD Electrical works. Nov-2017.G-1/2e	Earthing with 80 mm dia GI pipe (TATA-Medium)x 3.0 Mts. long and 1 No. 65 mm x 8 mm galvanized (Hot Dip) steel strip (4 Mts. long), 20 mm dia x 125 mm long galvanized bolt, double nuts, double washers including finishing both ends by making holes etc. and S & F 80 mm dia GI pipe (ISI-Medium) protection (3 Mts. long) to be filled with bitumen partly under the ground level and partly above ground level to an average depth of 3.65 Mts					2.00	SET	5349.00
30	PWD Electrical works. Nov-2014.G-2/3A	Extra for providing masonry enclosure on the top of the earth electrode of overall size 86.36 cm x 86.36 cm x 46 cm deep (below Ground level) complete with cemented brick work(1:6)of 25 cm width duly plastered with cement mortar (inside) CI hinged inspection cover of size 36.56 cm x 35.56 cm with locking arrangement, GI reducer including drilling of 46 nos.12 mm dia holes on the GI pipe					2.00	SET	915.00
31	PWD Electrical works. Nov-2014.G-1/1/a	Excavation of soil for installation of Earth Electrode and filling & ramming. For Soft Soil					4.00	Cu mtr.	215.00
32	PWD Electrical works. Nov-2017.G-2/4B	Supplying & fixing earth busbar of galvanized (Hot Dip) MS flat 40 mm x 6 mm on wall having clearance of 6 mm from wall including providing drilled holes on the busbar complete with GI bolts, nuts, washers, spacing insulators etc. as required.					13.00	MTR	194.00
33	PWD Electrical works. Nov-2014.G-2/5 A.ii	Connecting the equipments to earth busbar including S & F GI (Hot Dip) wire of size as below on wall/floor with staples buried inside wall/floor as required and making connection to equipments with bolts, nuts, washers, cable lugs etc. as required and mending good damages. Solid GI wire No. 6 SWG					20.00	MTR	13.00
34	UDMA Schedule 2018/Pg 14/6	Supply and delivery of 230V,50Hz Heavy duty Metal 9"exhaust fan.					6.00	Each	1863.00
35	UDMA Schedule 2018/Pg 23/71/a	Supply and delivery of Wall fan 16" Sweep metal blade (a) Crompton Make					5.00	Each	2946.00
36	PWD Electrical works. Nov-2017.c-4/28/a	Fixing only exhaust fan after making hole in wall and making good damages and smooth cement finish etc. as practicable as possible and providing necy. length of PVC insulated wire and making connection for exhaust of following diameter (a0 23 cm (9"))					4.00	Each	247.00

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Sl. No	Sch. Item	Description of item	No	L	B	Ht.	Quantity	Unit	Rate
37	PWD Electrical works. Nov-2017.c-4/30/a	Fixing only louver shutter/cowl on wall with necy. bolts & nuts (6 mm dia x 62 mm long) (a) for 23 cm (9") Exhaust Fan					4.00	Each	82.00
38	PWD Electrical works. Nov-2017.c-4/29	Fixing only cabin fan on wall/ceiling by S&F rag bolts, nuts & washers (6 mm dia x 62 mm long) or as reqd. incl. S&F 24/0.20 PVC insulated flexible copper wire 0.5 mt. length					5.00	Each	92.00
39	KMC Passed File rate	9-15 W round type LED luminaires Make: Philips/Havells/Wipro					20.00	Each	1112.00
40	UDMA Schedule 2018/Pg 14/4	Supply and Fixing of 2 mm Polyvinyl glow sign board made of 22 SWG GI sheet box with 1"X1" aluminum channel for fixing the vinyl board after necessary cutting the letter as required & s/f LED tube light fittings along with all					22.00	Sq. Ft.	495.00

Signature
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Executive Engineer (Civil)
Urban Services Department

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