



WEST BENGAL MEDICAL SERVICES CORPORATION LTD.
(Wholly owned by the Government of West Bengal)
Swasthya Sathi, GN-29, Sector-V, Salt Lake, Kolkata-700 091.

CORRIGENDUM -II

(TO BIDDING DOCUMENTS FOR)

**Construction of DIPHL (District Integrated Public Health Laboratories) at
Basirhat District Hospital, Basirhat Health District-Electrical Works**

Bid Ref. No: WBMSCL/NIT-341/2024, Dated – 12/06/2024

Tender ID: 2024_WBMSC_693142_1

Annexute -A(Revised BOQ)

**Setting up the establishment of District integrated public health Laboratory (DIPHL) at Basirhat District Hospital, Basirhat , 24pgs (N) - Electrical installation Work
(NIT no: WBMSCL/NIT-341/2024, Dated:-12/06/2024)**

Sl. No.	Description of work	Qty.	Unit	Rate (+ GST & L.W.C.)	Amount (+ GST & L.W.C.)
1	Supply & erection of 4-Way 250A Sub Main Distribution Board including 1(one) number 250A 25 KA for 1s FP MCCB as incoming, 3 nos. 100A 25 KA for 1s TP MCCB and 1 nos. 63A for 25 KA 1s TP MCCB as outgoing, 1 no. Surge protection device to protect against direct and indirect lightning surge(type 1+2), 3P+N, 12.5/50kA, conforming to IEC 61643-11 with both side cable allay, 1no. metering box, 1 no. cable entry boxes, 4nos. corner box, 1 no. digital volmeter, 1 no. digital Multifunction Meter, 1 no. digital Energy Meter, R-Y-B indicating lamp, 3Nos. metering CT(Class-1) 1no. voltmeter selector switch, 3 nos. 100A connector, 1 no. 63A connector 5nos. CU Spreader Terminals, Cu extension bar suitable to connect 2 run 3.5C 70 sqmm Al. cable at incommer, provision for earthing attachment complete with all wiring and Inter connection by CU cable/wire & . It should be erected on angle iron frame on wall or on brick foundation finished with plaster & neat cementing. (Make: L&T/Havells/ Indo Asian/ C&S - as approved by the EIC). (To be Installed at DIPHL Electrical Room)	1	Nos.	143736.05	143736.00
2	Supplying and fixing double door Vertical TPN MCB Distribution board for MCCB incomer with IP-42/43 protection, on angle iron frame on wall & mending good the damages to original finish incl. Inter connection with suitable size of copper wire and neutral link & provision for earthing attachment (Make: Legrand/ Siemens/ L&T/ Schneider) (Make: Legrand / Siemence / ABB Eligance / Havells Stad-X - Make will be approved by the EIC) 4 Way (Up to 100 A) SOR Page: D-12 Item: 15] (2 nos For UPS, 1 no. for Split AC, 1 no. for L&PBD)	4	Nos.	9802.89	39212.00
3	Supplying and fixing double door Horizontal TPN 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(Make: Legrand / Siemence / ABB Eligance / Havells Stad-X - Make will be approved by the EIC)				
a	4-Way , [PWD(E)SOR Page: D-10 Item: 14] (For Zone A AC and Future Provision)	2	Nos.	2958.86	5918.00
b	6-Way , [PWD(E)SOR Page: D-10 Item: 14] (For Zone-A AC, Zone A&B UPS, Raw Power)	5	Nos.	4259.59	21298.00

4	Supplying and fixing double door sheet steel (16SWG), powder coated cable end/wire way box for TPN DB horizontal / vertical enclosure with IP-42/43 protection, on angle iron frame on wall & mending good the damages to original finish with nuts bolts etc incl. provision for earthing attachment				
a	4 Way Vertical [PWD(E)SOR Page: D-12 Item: 16]	8		1303.16	10425.00
b	4 Way Horizontal [PWD(E)SOR Page: D-12 Item: 16]	4		829.06	3316.00
c	6 Way (Horizontal Up to 160 A) [PWD(E)SOR Page: D-12 Item: 16]	10		829.06	8291.00
5	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.				
a	(2+8) Way, [PWD(E)SOR Page: D-09 Item: 13] (For Zone A&B)	6	Nos.	1795.49	10773.00
b	(2+12) Way, [PWD(E)SOR Page: D-09 Item: 13] (For Common Area and Security Light)	2	Nos.	2250.14	4500.00
6	S&F Industrial Plug & Socket board with 415 V, 30A, TPN & Earth Metal Industrial Plug socket & 30A Industrial top incl. S&F 32 A TPN/FP MCB breaking capacity 10kA (C- Curve) in SS enclosure fixed on wall and necessary connection. (Make: Legrand / Siemence / L&T, as approved by the EIC) [PWD(E)SOR Page: D-12 Item: 18]	12	Nos.	3243.32	38920.00
7	Supplying & fixing sheet metal (16 SWG) Iron Clad Busbar chambers on angle iron frame on wall, incl. earthing attachment and painting as required – (As per Drawing no. 470 of PWD Specification Book – May 1991) 4 bars, 415 V, 100/125 A Dimension of Al. bars [85mm long]-4 x 25x5mm Dimension of Sheet Metal Box-500x150mm (To be installed at UPS room)	1	Nos.	3017.21	3017.00
8	Supplying and fixing 415 V Four Pole MCCB of Breaking capacity 25kA/35kA with fixed thermal and fixed magnetic / adjustable thermal and fixed magnetic setting in existing DBs / enclosure and necessary connection (Make: Legrand / Siemence / L&T, as approved by the EIC))				
a	63-100 A 4- Pole , [PWD(E)SOR Page: D-8 Item: 10] (For UPS VTPN I/C)	4		5187.12	20748.00
9	Supply & fixing 240/415 V MCB of Breaking capacity 10kA & C characteristics on din rail of existing DBs and necessary connection (Make: Legrand / Siemence / L&T, as approved by the EIC) [PWD(E)SOR Page: D-6 Item: 7]				
a	63A FP MCB (For Zone-B AC DB-HTPN I/C-1 no., 4 nos. O/G for AC VTPN, 4 nos. O/G for L&PDB VTPN)	9	Nos.	2224.61	20022.00

b	40A FP MCB (For Zone-A AC DB-HTPN I/C)	2	Nos.	2224.61	4449.00
c	40A TP MCB (For UPS VTPN O/G)	12	Nos.	1740.79	20889.00
d	6-32 A DP MCB(For SPN DB I/C)	8	Nos.	663.74	5310.00
e	6-32A SP MCB (For HTPN, SPN DB O/G)	186	Nos.	230.97	42961.00
10	Supply & fixing 415 V 4P RCCB, 40A, 30mA on din rail of existing DBs and necessary connection For Zone A&B UPS DB-HTPN I/C-2 nos , Zone A&B Raw Power DB-HTPN I/C -2 nos (Make: Legrand / Siemence / L&T)	4	Nos.	5595.50	22382.00
11	Supply & delivery of 1.1 KV Gr. XLPE/ PVC Armoured Aluminium Cable (Brand Approved by EIC)				
a	4 core 120 sq. mm. (For Negative pressure)	50	Mrs	1339.37	66968.00
b	4 core 25 sq. mm. (For HTPN DB UPS & O/G Negative Pressure)	250	Mrs	367.92	91981.00
c	4 core 35 sq. mm. (For VTPN Power & AC and 2 run for UPS VTPN)	230	Mrs	484.11	111345.00
d	3.5 core 70 sq. mm. (For 630A SMDB to 250 A SMDB)	850	Mrs	853.65	725599.00
12	Laying of cable on wall/surface incl. S & F MS saddles with earthing attachment in 2X10 SWG GI (Hot Dip) Wire, making holes etc. as necy. mending good damages and painting [PWD(E)SOR Page: F-1 Item: 2]				
a	Laying of cable 3/3.5/4 core 25 sqmm	25	Mrs	72.94	1823.00
b	Laying of cable 3/3.5/4 core 35 sqmm to 50 sqmm	100	Mrs	86.31	8631.00
c	Laying of cable 3/3.5/4 core 70 sqmm to 95 sqmm	190	Mrs	100.90	19171.00
13	Laying of one cable above 150 sqmm and upto 300 sqmm through existing covered masonry trench incl. taking out RC covers, setting them in order, mending good the damages filling the trench with fine dry sand incl. supplying sand.	50	Mrs	165.33	8266.00
14	Laying of two cables above 35 sq mm and upto 185 sqmm in an underground trench in single tier formation (horizontal), the trench size : 680 mm x 760 mm average depth, with brick protection on the top of each cable 8 (eight) Nos. bricks per Mtr. and 4 (four) Nos. bricks per Mtr. as separator between the bricks and cables and also trench to be filled up with shifted soil, levelling up and restoring surface duly rammed. [PWD(E)SOR Page: F-2 Item: 2b]	610	Mrs	382.93	233584.00
15	Laying of cable as below, on existing Cable Tray and binding with suitable size GI wire [PWD(E)SOR Page: F-3 Item: 6]				
a	Up to 50 sqmm	300	Mrs	13.37	4012.00
b	From 70sqmm to 150sqmm	50	Mrs	18.23	912.00
16	S & F compression type brass cable gland complete with brass gland, brass ring & rubber ring for dust & moisture proof entry of XLPE/PVC armoured cable. [PWD(E)SOR Page: F-4 Item: 7/c]				
a	4 core 120 sq. mm.	4	Set	139.80	559.00

b	4 core 25 sq. mm.	18	Set	196.93	3545.00
c	4 core 35 sq. mm.	16	Set	196.93	3151.00
d	3.5 core 70 sq. mm.	4	Set	257.71	1031.00
17	Finishing the end of the XLPE/PVC armoured cables by crimping method incl. S&F solderless socket (Dowels make), tapes, anticorrosive paste & jointing materials. [PWD(E)SOR Page: F-5 Item: 8/b]				
a	4 core 120sq. mm.	4	Set	115.49	462.00
b	4 core 25 sq. mm.	18	Set	139.80	2516.00
c	4 core 35 sq. mm.	16	Set	192.07	3073.00
d	3.5 core 70 sq. mm.	4	Set	319.71	1279.00
18	Supply & Fixing of perforated GI Cable Tray with perforation not more than 17.5% suspended from ceiling with two nos. suspenders & 25x25x3mm angle iron for supporting the cross member incl. S&F GI connector, 6mm dia MS suspender, bolts & nuts, steel fastener etc. as required of the following size. Incl. Al painting of MS support. (With / without angle iron support) [PWD(E)SOR Page: D -14 Item: 34/a]				
a	For 150x50x1.25mm (18SWG) Cable Tray	40	Mrs	256.50	10260.00
b	200x50x1.25mm (18SWG) Cable Tray	55.4	Mrs	348.89	19328.00
19	Supply & Fixing of perforated GI cable tray bend with perforation not more than 17.5% suspended from ceiling with two nos. suspenders & 25x25x3mm angle iron for supporting the cross member incl. S&F GI connector, 6mm dia MS suspender, bolts & nuts, steel fastener etc. as required of the following size. Incl. Al painting of MS support				
a	150x50x1.25mm (18SWG)	4	Each	457.08	1828.00
b	200x50x1.25mm (18SWG)	4	Each	545.82	2183.00
20	Supply & Fixing of perforated GI cable tray tee with perforation not more than 17.5% suspended from ceiling with two nos. suspenders & 25x25x3mm angle iron for supporting the cross member incl. S&F GI connector, 6mm dia MS suspender, bolts & nuts, steel fastener etc. as required of the following size. Incl. Al painting of MS support.				
a	150x50x1.25mm (18SWG)	2	Each	609.03	1218.00
b	200x50x1.25mm (18SWG)	2	Each	740.32	1481.00
21	S&F medium gauge 65mm dia GI Pipe (ISI-Medium) Protection with necessary fittings and jointing materials as required as per GS. [PWD(E)SOR Page: F-6 Item: 11]				
	Earthing Installation				
22	Earthing with 50 mm dia GI pipe 3.64 mm thick x 3.04 Mts. long and 1 x 4 SWG GI (Hot Dip) wire, with an average depth of 3.65 Mts. below the ground level (For soft Soil: ISI-Medium GI pipe) [PWD(E)SOR Page: G-1 Item: 2/a]				

23	Earthing with 65 mm dia GI pipe (TATA-Medium)x 3.0 Mts. long and 1 No. 50 mm x 6 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 65 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. (For UPS & other Instrument Earthing) [PWD(E)SOR Page: G-1 Item: 2/d]	4	Item	4702.08	18808.00
24	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 [PWD(E)SOR Page: G-2 Item: 3/a]	6	Item	1112.31	6674.00
25	Extra for treatment of soil by using salt & charcoal or coke for plate electrode [PWD(E)SOR Page: G-2 Item: 3/b]	6	Item	645.50	3873.00
26	S&F earth busbar of galvanized (Hot Dip) MS flat 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 [PWD(E)SOR Page: G-2 Item: 4/a]				
a	S&F galvanized (Hot Dip) MS flat 25 mm x 6 mm on wall	2	Mrs	189.64	379.00
b	S&F galvanized (Hot Dip) MS flat 50 mm x 6 mm on wall	2	Mrs	262.58	525.00
27	Connecting the equipments to earth busbar including S & F 4SWG GI (Hot Dip) wire of size. [PWD(E)SOR Page:G-2 Item: 5/a]				
a	S & F 4SWG GI (Hot Dip) wire of size.	40	Mrs	21.88	875.00
b	S & F 6SWG GI (Hot Dip) wire of size.	50	Mrs	15.80	790.00
28	Connecting the equipments body to earth busbar including S&F galvanised (Hot Dip) MS flat on wall/floor with GI saddles as required and connection to equipments incl. drilling holes, with bolts, nuts, washers etc. [PWD(E)SOR Page:G-3 Item: 5]				
a	S&F 25 mm x 6 mm galvanised (Hot Dip) MS flat	50	Mrs	167.76	8388.00
29	Distribution wiring in 1.1 KV grade 3x22/0.3 (1.5 sqmm) single core stranded 'FR' PVC insulated & unsheathed copper wire (Brand approved by EIC) partly in 20mm size PVC rigid conduit 'FR' (Precision make) [for ceiling portion only] and in 19mm bore, 3mm thick polythene pipe [for horizontal & vertical run embedded in wall], to light/fan/call bell points with Modular type switch (Brand approved by EIC) fixed on Modular GI switch board complete with 2 no. suitable size "Ph & N" copper bar and 'L' shaped insulator chair with top cover plate making earthing attachment fixed on wall incl. mending good damages to original finish. [only PVC Rigid Conduit on ceiling and remaining portion concealed] [PWD/GS Page: E-25 Item: 4]				

a	Average run: 06 Mtr.	70	Point	1062.47	74373.00
b	Average run: 08 Mtr.	50	Point	1305.59	65280.00
30	Distn. wiring in 22/0.3 (1.5 sqmm) single core stranded 'FR' PVC insulated & unsheathed single core stranded copper wire (Brand approved by EIC) in 19 mm bore, 3 mm thick polythen pipe complete with all accessories embedded in wall to light/fan/call bell points with Modular type switch (Brand approved by EIC) fixed on Modular GI switch board with top cover plate flushed in wall incl. mending good damages to original finish 2x22/0.3 (Ph. & N) and 1x22/0.3 as ECC [PWD(E)SOR Page: E-20 Item: 1]				
a	Average run 6 mtr	20	Point	1085.56	21711.00
b	Average run: 09 Mtr.	30	Point	1425.94	42778.00
31	Cutting Channel on masonry wall by Electric operated cutting machine incl. supplying & fixing heavy gauge 19 mm/25mm, 3 mm thick Polythene pipe by means of anchoring chemical (Hilti/Sika) and GI 'U' hooks of 8 SWG incl. supplying and drawing 18 SWG GI wire as Fish wire and mending good damages to original finish by using own tools and tackles				
a	Size (40 mm x 40 mm) & S/F 19 mm dia, 3 mm thick Polythene pipe [PWD(E)SOR Page: E-03 Item: 6/b]	1620	RM	79.02	128006.00
b	Size (43 mm x 43 mm) & S/F 25 mm dia, 3 mm thick Polythene pipe [PWD(E)SOR Page: E-03 Item: 7/b]	800	RM	96.04	76828.00
c	Size (43 mm x 43 mm) & S/F 2 nos. 25 mm dia 3 mm thick Polythene pipe [PWD(E)SOR Page: E-03 Item: 7/b]	210	RM	192.07	40335.00
32	Supplying and Drawing 1.1 KV single core stranded 'FR' PVC insulated & unsheathed single core stranded copper wire (Brand approved by EIC) of the following sizes in 20/25/32 mm pre laid alkathyne Pipe and making necy. connection as required [PWD(E)SOR Page: E-9 Item: 1]				
a	(a) 2 x 22/0.3 (1.5 sqmm) + 1 x 22/0.3 (1.5 sqmm) ECC	120.5	RM	58.35	7031.00
b	2x36/0.3 (2.5 sqmm) + 1x22/0.3 (1.5 sqmm) as ECC(For 16 A power plug & computer board)	1500	RM	79.02	118525.00
c	2 x 56/0.3 (4 sqmm) + 1x36/0.3 (2.5 sqmm) as ECC (For RAC & 3 Nos. 16 A plug board)	600	RM	115.49	69291.00
d	2 x 84/0.3 (6 sqmm) + 1 x 56/0.3 (4 sqmm) ECC (For HTPN to SPN DB)	140	RM	168.97	23656.00
e	4x56/0.3 (4 sqmm) + 2x36/0.3 (2.5 sqmm) as ECC (For Exhaust Unit)	80	RM	227.32	18186.00
f	4 x 84/0.3 (6 sqmm) + 2 x 56/0.3 (4 sqmm) ECC(For 3 pole, 40 A outlet for 9 KW Autoclave Machine etc.)	70	RM	335.52	23486.00

g	4x80/0.4 (10 sqmm) + 2x84/0.3 (6 sqmm) as ECC (For 3 pole, 40 A outlet for 18 KW Autoclave Machine etc.)	60	RM	599.31	35959.00
33	Supplying and Drawing 1.1 KV single core stranded 'FR' PVC insulated, un-sheathed & single core stranded copper wire (Brand approved by EIC) of the following sizes in the prelaid rigid conduit and making necy. connection as required				
a	2X 10 sqmm copper cable (for UPS earthing)	20	RM	240.70	4814.00
b	4x 16 sqmm copper cable (for UPS connection)	20	RM	733.03	14661.00
34	Supplying and fixing PVC Rigid Conduit 'FR' [Precision Make] on wall, ceiling with saddles and other accessories as required and mending good damages to building works [PWD(E)SOR Page: E-16 Item: 7]				
a	20mm size	30	RM	62.00	1860.00
b	32 mm size	30	RM	99.68	2990.00
35	Finishing of the PVC insulated wire ends by socketting with pin/ring type copper sockets and insulated tapes etc., including supplying sockets, tapes. [PWD(E)SOR Page: F-5 Item: 9]				
a	2 x 22/0.3 (1.5 sqmm) + 1 x 22/0.3 (1.5 sqmm) ECC	200	set	21.88	4376.00
b	2x36/0.3 (2.5 sqmm) + 1x22/0.3 (1.5 sqmm) as ECC	210	Set	21.88	4595.00
c	2 x 56/0.3 (4 sqmm) + 1x36/0.3 (2.5 sqmm) as ECC	36	Set	24.31	875.00
d	2 x 84/0.3 (6 sqmm) + 1 x 56/0.3 (4 sqmm) ECC	10	Set	30.39	304.00
e	4x56/0.3 (4 sqmm) + 2x36/0.3 (2.5 sqmm) as ECC	8	Set	48.63	389.00
f	4 x 84/0.3 (6 sqmm) + 2 x 56/0.3 (4 sqmm) ECC	8	Set	60.78	486.00
g	4x80/0.4 (10 sqmm) + 2x84/0.3 (6 sqmm) as ECC	8	Set	75.37	603.00
36	Supplying & Fixing 240 V AC/DC superior type Multitune (min 10 nos. tune) Call Bell (Anchor) with selector switch for single/Multi Tunes mode, Battery operated on HW board incl. S&F HW board [PWD(E)SOR Page: D-13 Item: 20/c]	2	Nos.	357.40	715.00
	Switch-Sockets & Enclosure with MCB				
37	S&F 240 V, 6 A, 3 pin Modular type plug socket (Brand approved by EIC) with 6A Modular type switch, without plug top on 4 Module GI Modular type switch board with 3 Module 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. [PWD/GS Page: E-18 Item: 9/a]	50	Nos.	458.29	22915.00

38	Supply & Fixing 240 V, Three nos. 6 A, 3 pin Modular type plug socket (Brand approved by EIC) with three nos. 6A Modular type switch, without plug top on 6 Module GI Modular type switch board with 6 Module 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. [PWD/GS Page: E-17 Item: 1, 3/a, 4/a]	30	Nos.	1353.00	40590.00
39	S&F 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. [PWD/GS Page: E-18 Item: 9/b]	60	Nos.	554.33	33260.00
40	S&F 240 V, 16 A, 3 pin Modular type plug socket (Brand approved by EIC) without plug top & switch, on 2 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. [PWD/GS Page: E-17 Item: 2/a & 4/b]	25	Nos.	284.46	7111.00
41	Supply & Fixing 240 V, 25 A, Modular type starter (Brand approved by EIC) with 25A Modular switch type DP MCB (CCurve) and 4 Module GI Modular type switch board with 4 Module 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. [PWD/GS Page: E-19 Item: 17]	19	Nos.	953.06	18108.00
Fan Fittings & other accessories					
42	Supply & delivery of 450mm Metal Body AC wall bracket fan (ORIENT: Wall-II Tornado-Copper/equivalent of EPC or USHA or CROMPTON or HAVELLS- Make will be approved by the EIC)	35	Nos.	5184.75	181466.00
43	Supply & delivery of 300 mm Heavy Duty Exh. Fan (1400 RPM) EPC make (ORIENT/equivalent of EPC or USHA or CROMPTON or HAVELLS- Make will be approved by the EIC)	11	Nos.	3715.54	40871.00
44	Supply & delivery of 375 mm Heavy Duty Exh. Fan (1400 RPM) EPC make (ORIENT/equivalent of EPC or USHA or CROMPTON or HAVELLS- Make will be approved by the EIC)	2	Nos.	4268.23	8536.00
45	Supply & delivery of single 4ft LED tube light fitting with one 18W tube light incl. 4ft LED tube, complete with all accessories suspended from ceiling/beem with L clamp/ beem clamp. [TMC 502 P 1xT-LED batten with one no. 18W Master LED Tube Light or Equivalent of Philips-MAS LED tube 18W 2100 Lm 865 T8 (Pc)/Orient-LTXL-18-C/Bajaj-BLRB 18W CW LED/Havells/ Crompton/ Wipro]	130	Set	1129.59	146846.00
46	Supply & delivery of 10W LED Lamp. (Make: Havells or Equivalent of Philips or Crompton)	10	Nos.	121.03	1210.00

47	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 [PWD(E)SOR Page: C-4 Item: 29]	35	Nos.	111.84	3914.00
48	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 including Supply & Fixing of GI louver shutter on wall with necy. bolts & nuts (6 mm dia x 62 mm long). [PWD(E)SOR Page: C-4 D-14, Item: 28 b, 32 a]				
	(a) A.C Exhaust fan	13	Nos.	634.56	8249.00
49	Fixing only single/twin fluorescer t light fitting suspended 25 cm bellow the ceiling with 2 No 20 mm dia EI conduit (14 SWG) supports fixed with "L" type MS clamp whose one side fixed on ceiling with suitable size 4 nos. fastener and other side connected with the conduit with suitable size of bolts and nuts incl. S&F EI conduit, "L" type (125mmx125mm) 6mm thick and 25mm with MS clamps and connecting the length of PVC insulated wire and mending good damages to original finish and painting etc. by 2x24/0.20 mm (1.5sqmm.) flexible copper wire of 1.10 mt. length. [PWD(E)SOR Page: C-2 Item: 17]	130	Set	241.91	31449.00
50	Fixing only lamp [PWD(E)SOR Page: C-2 Item: 11]	10	Each	6.08	61.00
51	(A) Timer Unit for One Split AC Machine: Supply and fixing of timer control switch for controlling Split AC machines made of suitable size MS sheet duly Power coated paint with IP - 43 protection with front door locking arrangement with all connection and comprising with following accessories including necessary connenctions and earthing attachment on angel iron frame on wall / embedding in wall as per instruction of EIC. (Make - L&T / equivalent of Legrand, Simens) a) 25A DP MCB - 1 nos., b) 25A Two Pole MU type Contactor: 1 nos., c) 9-15A Over load Relay MU-2P Type: - 1 nos. and Current monitoring relay- 1 nos., d) Daily & weekly programmable basis digital time switch, min switching time 1 min, 25 ON/OFF programs, 6 yrs. Battery backup, settable DST & key pad lock features. - 1 r.o. (Make: L&T-GIC 67DDT0), e) LED indication Lamp, 240V AC -1 set, f) 63A rated Two pole terminal - 01 nos., g) Auto-manual toggle switch (2-Way)- 01 nos., h) Ferule marking & name plate for each Ckt. I) inter connection with sockcting.	6	Item	9053.39	54320.00
52	Dismantling of existing all distribution wiring, cable, different types of DB box, fitting-fixture, fan etc. including lifting-shifting& handing over to the Hospital authority or PWDE Sectional store in good condition.	1	Item	17754.84	17755.00
53	Supplying and fixing of 25-L 5 Star Rated Storage Water Heater (Gyser) Make:- Crompton/Bajaj/Havells-GHWAMJSIB025)	1	Nos.	14810.20	14810.00

54	Supplying and fixing of LED Based Edge light (Name Plate) as per approved design & Specification	17	Nos.	1966.47	33430.00
55	<p>(A)Supply, installation , testing & commissioning of 30 KVA, IGBT Rectifier & IGBT Inverter BASED DSP CONTROLLED, 3-Phase input & 3-Phase out put with three level technology on line UPS system. [Make: Vartive / APC / Numeric/Fuzi Electric]</p> <p>Specification: Rating of UPS (KVA/KW): 30 KVA Operating Voltage Range: 320 – 476 Volt /Phase Input Voltage Range for 50% load: - 35% @ 50% load (260-476V) Input Frequency: 45 to 55 Hz Input PF: >0.99 with IGBT Rectifire Input Current THDi: <3% (full linear Load)</p> <p>(B)Isolation Transformer: Inbuilt Isolation Transformer with 1:1 ratio to be provided for 30kW load. Back feed Protection: UPS should have back feed protection Input auto phase sequence correction : UPS should be inbuilt phase sequence correction DC Ripple: Residual ripple Voltage should be <1% Output Voltage: 380----400----415V (Selectble) Output Voltage Regulation: Static Variation +/- 1% and Dynamic variation +/-3% Output Frequency: 50 Hz +/- 0.1% Output Power Factor: Unity Crest Factor: 3:1 THDv: < 1% (full linear load), < 5% full (non linear load) Waveform: Sinusodial Birdge: Microprocessor based and IGBT Technology Overload: 110% for 60 minutes, 125% for 10 minutes, 150% for 1 minutes. Static By Pass: 100 % rated static switches with fuse protection overload on Bypass: 100% for 10 ms Overall Efficiency: 94%</p>	1	Nos.	679645.23	679645.00

(C) Battery : 12 V, SMF VRLA Batteries.
DC Bus : The system should be a variable DC bus from 384VDC to 480VDC, and the required total VAH should be 32640VAH in dual battery string for 30 min backup (the Battery Redundancy is essential for each Battery String). The essential VAH for each string should not be less than the 16320VAH. The Battery calculation sheet must be submitted with tender documents. [Battery Make: Exide / Amar Raja(Quanta)].

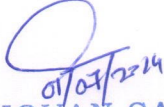
Protections: Input & Output Over / Under Voltage, Under Voltage, Battery Charging Over Current, Output Overload / Short Circuit / Over Temp/ Fan failure Audio Alarm, Mains Fail, Battery Low Pre-alarm, Inverter.
Trip Metering: Graphical LCD display for Input & Output - Voltage, Current & Frequency, Battery - Voltage & Current,
Switchgear: MCB / MCCB for Input, Battery, Output & Manual Bypass Switch,
Termination: Input, Battery, Output & Bypass
Enclosure: IP 20,
Operating Temp: 0 to 40 Deg C,
Humidity: Upto 95% Rh (non-condensing),
Cooling: Forced Air,
Noise Level : 65Dba at 100% load and ≤55Dba at 50%,

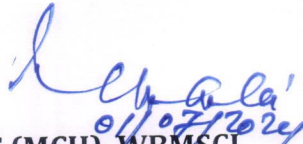
(D) Certification : UPS should have IEC 6240-1 , IEC6240-2 , IEC6240-3 , CE, ROHS & PEP certification,
Cold Start: UPS should have inbuilt cold start facility,
Power Walk in: It should be inbuilt features of UPS system,
Configuration: Parallel Redundant Compatible,
Communication: RS232, RS485, USB, Battery cold start,
Charger Capacity for UPS : Long back up charger (20amps at least),
Battery Stand: With power coated MS angle with suitable dimension and gage, well air ventilation to ensure the battery optimum life cycle.Using Nyvin cable with proper rating for interlink cables and battery input with DC MCCB and necessary accessories.

Total amount including GST & LWC (Rs.) **3941277.00**

In words: Rupees Thirty nine lacs forty one thousand two hundred seventy seven only


Sabyasach Biswas
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CEE (MCH), WBMSCL