

WEST BENGAL MEDICAL SERVICES CORPORATION LTD.

(Wholly Owned by the Government of West Bengal)

CIN: U85110WB2008SGC126373

Regd. Off. : Swasthya Sathi, GN-29, Sector-V, Salt Lake, Kolkata-700091

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Memo No.: WBMSC/AAES- 745/4207

Date: 24/11/2017

ORDER

Administrative Approval & Expenditure Sanction is hereby accorded for 'Electrical work relating to Construction of new plant cum manifold room for Medical Gas Pipe Line System (MGPS) at Chandannagar SDH, district Hooghly' at an estimated cost of Rs. 5,73,245.00 (Rupees Five Lakh Seventy Three Thousand Two Hundred and Forty Five) only against fund allotment No: 1518(Sanction)/HF/P/P&B/MS/W-55/2017 Dated 23/11/2017

The details are as follows:

SI No	Schemes	Amount (Rs)
1	Electrical work relating to Construction of new plant cum manifold room for Medical Gas Pipe Line System(MGPS) at Chandannagar SDH, district Hooghly	5,59,263.00
2	Contingency @ 2.5%	13,982.00
Total		5,73,245.00

The work will be executed by the Executive Engineer, P.W.D, Hooghly Electrical Division & Ex-Officio Executive Engineer, West Bengal Medical Services Corporation Limited, as per norms stated in the order of the Health & Family Welfare Dept. M.S. Branch, vide No. HF/O/MS/384/W-39-12 dt. 01.06.2012 read with Notification No. 86-W(C)-1M-106/11 dt. 06.02.2012 and Memorandum no 37-W(C)-1M-106/11 dated 17.01.2012 of Public Works Department, Government of West Bengal.


Managing Director
Date: 24/11/2017

Memo No: WBMSC/AAES-745/4207/1(10)

Copy forwarded for information and necessary action to:

1. Joint Secretary, M.S. Branch, Dept. of Health & Family Welfare
2. CMOH, Hooghly
3. Superintendent, Chandannagar SDH
4. Superintending Engineer, PWD, Western Electrical Circle & Ex-Officio Superintending Engineer, West Bengal Medical Services Corporation Limited
5. Manager (Accounts), West Bengal Medical Services Corporation Limited.
6. Executive Engineer, P.W.D, Hooghly Electrical Division & Ex-Officio Executive Engineer, West Bengal Medical Services Corporation Limited
7. Consultant Project Engineer (Civil), West Bengal Medical Services Corporation Limited
8. Consultant Mechanical Engineer, West Bengal Medical Services Corporation Limited
9. Consultant Electrical Engineer, West Bengal Medical Services Corporation Limited
10. Office Copy.


Managing Director

Estimate

Name of Work : Electrical Installation work for Proposed Setting up of plant Cum Manifold Room for medical gas pipe line system at Chadannagar SD Hospital, Hooghly .

Ref : Memo No. WBMSCL / PROC / 1887/17/1872 Dated 12.06.2017 of the Managing Director & Secretary, Health & FW Deptt., & joint visit with WBMSCL & PWD officials.

Report : This estimate has been framed to meet the probable cost of expenditure for the above mentioned work. A physical inspection has been carried out with the JE , PWD and consultation with superintendent of chadannagar SD Hospital, as his requirements regarding Electrical Installation for Proposed Setting up of plant Cum Manifold Room for medical gas pipe line system has been considered carefully and incorporated in this estimate. As the healthy power source is not present in near the proposed building , So the healthy power cable to be drawn from substation and considering the future augmentation plan. So all necessary requirements are incorporated in this estimate and placed to the higher authority for an early administrative approval please.

Sl.No	DESCRIPTION OF WORKS	QTY	UNIT	RATE	AMOUNT
1	Supplying and fixing polythene pipe complete with fittings as necy. under ceiling/beam, bound with 22 SWG GI binding wire incl. supplying and drawing 1x18 SWG GI Wire as fish wire inside the pipes and fittings and providing 50 mm dia disc of MS sheet (20 SWG) having colour paint at one face fastened at the load point end of the polythene pipe with fish wire (synchronizing with roof/beam casting work of building construction) [1 / E-2].				
1.1	19mm dia 3mm thick Polythene Pipe	80	RM	39	3120
1.2	25mm dia 3mm thick Polythene Pipe	120	RM	55	6600
2	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 Piano key type switch (Anchor make) fixed on sheet metal (16 SWG) switch board with bakelite/perspex (wall matching colour) top cover (3 mm thick) flushed in wall incl. mending good damages to original finish. Av. Run 8 Mtr. [2(a/ii) / E-9]	12	Pts.	1031	12372
3	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 (for horizontal & vertical run in wall and ceiling portion through prelaid polythene pipe) complete with all accessories embedded in wall to light/fan/call bell points with Piano key type switch (Anchor make) fixed on sheet metal (16 SWG) switch board with bakelite / perspex (wall matching colour) top cover (3 mm thick) flushed in wall incl. mending good damages to original finish . Av. Run 8 Mtr. [3(a/ii) / E-10]	12	Pts.	963	11556
4	Distn. wiring in 3 X 22/0.3 (1.5 sqmm) single core stranded 'FR' PVC insulated & unsheathed single core stranded copper wire in 19 mm bore, 3 mm thick polythen pipe complete with all accessories embedded in wall to 240 V 5A 3 pin plug point as per gs				
4.1	On Board [4 (a)(i) / E- 10]	4	Pts.	76	304
5	Supply & Fixing 240 V, 6A, plug socket with separate 6 A Piano key type switch (Brand approved by EIC) on sheet metal switch board embedded in wall incl. S & F 150x100x65mm MS (16SWG) switch board and bakelite/perspex top cover of 3mm thick by Brass screws after making housing for switch by cutting bakelite/perspex cover and making necessary connections as required.	4	Nos.	226	904
6	Supply & Fixing 240 V, 20A, 3 nos plug socket with separate 20 A Piano key type switch 3 nos (Brand approved by EIC) on sheet metal switch board embedded in wall incl. S & F 150x100x65mm MS (16SWG) switch board and bakelite/perspex top cover of 3mm thick by Brass screws after making housing for switch by cutting bakelite/perspex cover and making necessary connections as required. [22/ E-9]	2	Nos.	926	1852
7	Supply & Fixing 240 V, 3 nos. 6A, & 1 no. 20A plug socket with separate 3 nos. 6 A & 1 no. 20A Piano key type switch with indicator & 16A kit-kat flush type fuse (Brand approved by EIC) on sheet metal switch board embedded in wall incl. S & F 240x200x65mm MS (16SWG) switch board and bakelite/perspex top cover of 3mm thick by Brass screws after making housing for switch by cutting bakelite/perspex cover and making necessary connections as required [25 / E-7].	2	Nos.	763	1526
8	Supplying & Fixing 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 conection. [18 / D-12].	4	Nos.	3136	12544
9	Cutting Channel of size (40 mm x 40 mm) on masonry wall by Electric operated cutting machine incl. supplying & fixing heavy gauge 19 mm, 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.				
9.1	19 mm dia 3 mm thick [6 (a) / E- 3]	125	Mtr	68	8500
10	S & F 20 mm size PVC rigid conduit (Precision mk) on wall with saddles as per GS.[7(a) / E- 16]	15	Mtr	57	855
11	Supplying and Drawing 1.1 KV single core stranded 'FR' PVC insulated & unsheathed single core stranded copper wire (mk- Finolex/KEI/Havells) of the following sizes in the prelaid polythene pipe as per GS. [1 / E- 9]				
11.1	2x(2.5 sqmm)+1x(1.5 sqmm)	65	Mtr	76	4940
11.2	2 x 4 sqmm + 1x1 x 2.5 sqmm.	40	Mtr	111	4440
11.3	2x (6 sqmm) + 1x (4 sqmm)	75	Mtr	163	12225
11.4	4x80/0.4 (10 sqmm) + 2x84/0.3 (6 sqmm) as ECC	30	Mtr	580	17400

11.5	4x126/0.4 (16 sqmm) + 2x80/0.4 (10 sqmm) as ECC	30	Mtr	937	28110
12	Finishing of the PVC insulated wire ends by socketting with pin/ ring type copper sockets and insulated tapes etc., including supplying sockets, tapes. [9 / F- 5].				
12.1	2.5 sq mm	36	Nos	6	216
12.2	4 sq mm	24	Nos	7	168
12.3	6 sq mm	30	Nos	9	270
12.4	10 sqmm	32	Nos	11	352
12.5	16 sqmm	32	Nos	17	544
13	Supplying & Fixing sheet metal inspection box (16 SWG) of the following sizes flushed in wall by housing the same after cutting brick wall incl. making earthing attachment, painting and mending good damages to building works				
13.1	200 x 150 x 65 [11(d)/E-4]	8	Nos.	237	1896
14	Supplying and fixing double door Vertical TPN MCB Distribution board for isolator incomer with IP-42/43 protection,concealed in wall as per gs (Make - L & T)				
14.1	4/6 Way (Up to 160A) [15/D-11- 12]	1	Nos.	9419	9419
15	Supplying and fixing (2+8) Way double-door SPN MCB Distribution Board with IP-42/43 protection, concealed in wall as per GS. (Make - L & T) [13 / D- 9]				
16	Supplying and fixing 240/415 V MCB Isolator on din rail of existing DBs and necessary connection as perGS(Make - L & T)				
16.1	40 Amp, DP [6/D-5]	2	Nos.	371	742
16.2	100 Amp, FP [6/D-5]	2	Nos.	1009	2018
17	Supplying and fixing 240/415 V MCB of Breaking capacity 10kA & C characteristics on din rail of existing DBs and necessary connections as per GS(Make - L & T)				
17.1	6-32 SP [7 / D- 6]	20	Nos.	188	3760
17.2	40A/63A TP [7 / D- 6]	6	Nos.	1403	8418
18	Supply & Delivery 250V, 50 Hz, 300 mm Sweep 920 rpm Heavy Duty AC Exhaust Fan (as per EPC make) after making hole and mending good the damages to original finish incl. S&F louver shutter as per direction of EIC. (Make : EPC).	4	Nos.	2896 2860	11584 11496
18.1	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	4	Nos.	345	1380
19	Supply & Fixing GI sheet (20SWG) metal Cowl for 30 mm dia Exhaust Fan with MS flat iron frame & GI wire mesh on wall with necy. bolts & nuts (6 mm dia x 62 mm long)	4	Nos.	629	2516
20	S & F sequence timer for functioning of Exhaust fan after definite interval.	4	Nos.	2200	8800
21	S & F MS fan box with 150mm dia and 80 mm depth cast iron with MS plate cover in the RCC ceiling during casting as per direction of EIC. [31 / D-14]	6	Nos.	272 185	4632 1116
22	Supply & Delivery of 240V, 1200 mm Sweep Ceiling Fan complete with blades, canopy, fork, rubber bush etc. but without regulator incl. S&F of connecting wire. (Orient PSPO)	6	Nos.	2059	12354
22.1	Fixing only ceiling fan complete with blades, canopy, fork, rubber bush etc as per GS [21 (a) / C- 3]	6	no.	68	408
23	Supply & Fixing Socket type fan regulator (Step type)(Brand approved by EIC) on existing sheet metal switch board as per GS. [18 (a) / E-6]	6	Nos.	272	1632
24	Engraving the deptt.Number with 10mm lettering on the body of fan upto 10 letters incl.Hi-fen,stroke and stop as per GS [24(a)/C-3]	6	Ea.	26	156
25	extra for additional one letter incl.Hi-fen,stroke and stop. [24(b)/C-3]	60	Ea.	3	180
26	Painting up to 10 letters of the engraved number with approved black/red paint as required [26(a)/C-3]	60	Ea.	11	660
27	Extra paintingfor additional one letter of the engraved number with hi-fen,stroke etc. with black or red paint[26(b)/C-3].	60	Ea.	1	60
28	Supply of 230V 50 Hz Single fl. light fitting (cat no. TMC 55 P1xT-LED 22W P 3241, Philips) with Supply 1X20W 865 T8, Master LED TL 1200mm long (Philips) lamp suspended	6	each	2200 1945	13200
29	Fixing only single/twin fluorescent light fitting suspended 25 cm below 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) 8mm 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.	6	Nos.	216	1296
30	Supply & Fixing angular batten holder (Anchor) on 75mm dia PVCround block / round bakelite on wall/ceiling as per GS [22/D-13]	4	Nos.	43	172
31	S / F 14 W LED (Philips) Lamp on existing batten holder points.	4	Nos.	300 750	1200 3000
32	S & F Bulk head light fitting on wall incl. S & F 14 Watt LED lamp [Make: Philips / Bajaj / C & S]	2	Nos.	2600 900	5000 1800
33	Supply & delivery of different size 'Al' cond., Armour, XLPE insulated cable				
33.1	4 Core 35 Sqmm	58	Mtr	349	20242
33.2	4 Core 95 Sqmm	150	Mtr	756	113400
34	Laying 1.1 Kv.gr. Following size PVC/Al. Ar. Cable (NICCO/Gloster) drawing with 1 x No.8/ 2x8 SWG G.I. wire duly concealed in wall incl. mending good the damages as per gs.				

34.1	4 Core 35 Sqmm	15	Mtr	129	1935
35	Laying of one No. cable from 35 sqmm and upto 185 sqmm in underground trench 460mm wide x 760mm average depth, with brick protection on the top of the cable with 8 (eight) Nos. bricks per Mtr. including filling the space between the bricks and cable and also the trench with shifted soil, leveling up and restoring surface duly rammed				
35.1	4 Core 35 Sqmm (underground)	43	Mtr	170	7310
35.2	4 Core 95 Sqmm (underground)	150	Mtr	180	27000
36	Supplying and fixing compression type gland and finishing those for following XLPE / PVC armoured cable (2/4 / 3.5) Core as per GS.				
36.1	4 Core 35 Sqmm [7(c)/F4 & 8(xv) /F-5]	4	Nos.	361 342	1369 1308
36.2	4 Core 95 Sqmm [7(d)/F4 & 8(b) /F-5]	4	Nos.	638 590	2360
37	Earthing with 50 mm dia GI pipe 3.64 mm thick x 3.04 Mts. Long With TATA-Medium GI pipe as per GS. [2(a)/G-1].	4	Set	1675	2552 6700
38	Supplying & fixing earth busbar of galvanized (Hot Dip) MS flat 25 mm x 6 mm on wall as per GS. [4(a)/G-2]	1	Mtr	170	170
39	Supplying and fixing 415V, 63 Amp, TPN SFU with sheet steel enclosure on flat iron/angle iron frame on wall with nuts bolts etc incl. S & F 3 nos. DIN type HRC fuse as per rating. [4a / D3] Make : L & T	2	Nos.	4838	9676
40	Supplying and fixing 415V, 125 Amp. TPN on load front operated Changeover switch with Sheet Steel enclosure on angle iron frame on wall with nuts/bolts etc [3a / D2] Make : L & T.	1	No.	10079	10079
41	A) SITC of F.P. box, Top - 05 mm , Bottom - 02 mm , Body- 3.0 mm thick made from M.S. sheet, Leg 1200 mm long and pedestal (50mmx50mm x6mm angle iron) for holding the upper compartment of the pillar box (body size :- 1400mm x 1000mmx650mm) and two Leaf door fitted (3.0 mm thick M.S. sheet) with 3 X 2 sets(each leaf) hinge-capsule - welded with the body of pillar box for easy opening of front & back door. The overall dimension (2600mmx1100mmx750mm), Top of Pillar Box having Curvature shape with same sheet extended 50mm from the body edge of the pillar box conceal sharpen to protect the rain water. Having Ventilation grill with cowl in the body & center Spout of the top roof. (B) Railway type mechanical lock for upper & lower ends for front & back door, Pull-out Handle , (C) Suitable size angle / flat iron fitted inside the middle portion of the pillar box for holding the BBC, SFU & 900mm x 600mm x 40mm thick good quality(shal / segun / equivalent) wooden plank - back side. (D) Air-drying painting should be done with two coats of synthetic enamel or aluminium paint over two coats of anti-corrosive red -oxide primer. E) The pillar box to be installed by grouting the concrete foundation & brick pedestal after cutting earth pit dimension 1100mm -L x 750mm- B x 600mm- below G. L. and upto 600 mm above G. L. brick wall (250 mm width) construction and ramping the same incl. neat cement properly for strengthening with water treatment & as direction of the E.I.C. F) S&F 07 lever padlock with triplicate key in front and back side of the pillar box incl. Hand over the three Nos. key of each pad lock to the concern JE / SAE. -02 Sets, G) The following electrical equipment & accessories to be fitted & terminal connected between incoming switch to busbar and busbar to outgoing switches with suitable copper wire incl. suitable PVC pipe /sleeve etc. BUASBAR: S & F 415 V, 600 A, Busbar chamber (550 mm x 350 mm x 200mm) with 04 nos. 'cu' /AI bar over the porcelain / DMC insulator Chair incl. Providing accessories at the top cover of BBC as per direction of EIC. i) INCOMER : S & F 415 V, 200 A, TPN, SFU, FN (Siemens / LT Cat No.), with DIN fuse-1 set , iii) OUTGOING : S & F 415 V, 160 A, TPN, SFU front handle (Siemens / LT Cat No.), DIN type fuse -01 no., iv) S & F 415 V, 125 A, TPN, SFU FN (Siemens / LT Cat No.), DIN type fuse-01 no., vi) S & F 415 V, 63 A, TPN, SFU FN (Siemens / LT Cat No.), DIN type fuse-02 nos.	1	item	145326	145326
42	S & F mini pole on roof top by 80 mm dia., 1.8 Mtr. Long GI (M) pipe medium quality (Bansal/Jindal make) incl. making cc (6:2:1) muffing 600x600x750 mm in size with 3 mm thick neatly finished cement plaster incl. S & F 8"x6"x4" C.I. looping cable box incl. S & F 40 mm. dia. G.I.(M) upto 1.5 Mtr. Long arm bracket for fixing flood light & neccy connection by 2x 1.5 sq mm Cu wire. This is incl. painting as per GS.	2	No.	6150	12300
43	Supplying & Fixing Out door type 110W LED (Philips BRP 322) luminaire with all accessories on arm bracket.	2	No.	21000	42000
44	Supplying and fixing 240 V , 16 / 25 amp quazre type Time Switch with 24 hrs as desireable time setting for auto matic operation of AC M/Cs, incl. S & F 25/32 amp, 415V, 3 - pole power contactor type ML-1.5 or 2 Cat No. SS91851 or SS90701 (L & T), 415 volt. 40/63 amp. FP MCB as incomer and push button ON /OFF Incl. LED indicators, one toggle / two way piano switch for by pass manual ON /OFF incl. neccy. setting & connection as required. Make : L & T. / Seimens / Hager.	1	item	9500	9500

Rs. ~~628447~~
18853 ~~6,47,300~~

Add contingency charge @ 3.0% on estimated cost

K. Pradhan

Executive Engineer, PWD
Hooghly Electrical Division
Govt. of West Bengal &
Ex-Officio Executive Engineer, WBMSCL

Checked

Signature

Consultant (E&T) (S&T)
West Bengal Medical Services Corporation Ltd.

Adding Administrative charges of WBMSCL etc. Rs 22,371
Rs 5,59,263
Rs 5,81,634