

**(C)- ABSTRACT OF COST**

**AR&M- Electrical Work (Annual) i.e. 11KV/440 volt Sub-Station:- Maintenance of HT/LT panels, transformers, capacitors, stabilizers, UPS, HT/LT Cables, Generator sets and other equipments, etc. -Schedule of Quantities :-**

All the equipments/items to be installed must be conforming to ISI standard/ BIS Certification.

S.No.	SOR NO.	Description of Items	Unit	Qty.	Rate per unit(Rs.)	Amount
	DSR	Replacement/Repairing of ISI marked, FRLS PVC insulated, single core copper conductor cable				
1	1101	1.5 sq. mm	metre	4000		
2	1102	2.5 sq. mm	metre	2500		
3	1103	4 sq. mm	metre	2000		
4	1104	6 sq. mm	metre	600		
5	1105	10 sq. mm	metre	500		
6	1106	16 sq. mm	metre	500		
7	1108	16/0.20 mm (0.5 sq.mm) twin core FRLS PVC sheathed, flat flexible copper cable	metre	300		
8	1111	1 pair, 0.5 mm dia annealed copper conductor, FRLS PVC insulated, unarmoured, telephone cable	metre	300		
9	1112	1 pair, 0.5 mm dia annealed copper conductor, FRLS PVC insulated, unarmoured, telephone cable	metre	300		
10	1201	20 mm dia. ISI marked, steel conduit	metre	350		
11	1206	20 mm inspection/ solid bends	Each	200		
12	1217	20 mm junction box, two way	Each	200		
13	1224	20 mm dia. ISI marked, PVC conduit	metre	300		
14	1225	25 mm dia. ISI marked, PVC conduit	metre	400		
15	1226	32 mm dia. ISI marked, PVC conduit	metre	100		
16	1229	20mm diaPVC band	Each	20		
17	1230	25 mm diaP.V..C. Band	each	20		
18	1231	32 mm PVC bends	Each	20		
19	1300	Modular GI box for 2 module	Each	130		
20	1302	Modular GI box for 4 module	Each	110		
21	1305	Modular GI box for 12 module	Each	100		
22	1322	3 mm thick phenolic laminated sheet	sq.cm	15000		
23	1401	Replacement of Ceiling Rose 3pin 5amp	each	60		
24	1402	Replacement of S.P. 5/6 A, one way modular switch, ISI marked	each	200		

25	1403	Replacement of S.P. 5/6 A, two way modular switch, ISI marked	each	50		
26	1404	Replacement of S.P. 15/16 A, one way modular switch, ISI marked	each	200		
27	1405	Replacement of 3 pin 5/6 A modular socket outlet, ISI marked	each	300		
28	1406	Replacement of 6 pin 15/16 A modular socket outlet, ISI marked	each	300		
29	1407	Replacement of Modular bell push, ISI marked	each	50		
30	1408	Replacement of Stepped type Modular Fan regulator(2 module)	each	100		
31	1409	Replacement of Telephone Socket outlet modular type	each	40		
32	1410	Replacement of T.V. Socket outlet modular type	each	50		
33	1431	Replacement of S.P. 5/6 A, one way switch, piano type ISI marked	each	200		
34	1432	Replacement of S.P. 5/6 A, two way switch, piano type ISI marked	each	100		
35	1433	Replacement of S.P. 15/16 A, one way switch, piano type ISI marked	each	200		
36	1434	Replacement of 3 pin 5/6 A socket outlet, piano type ISI marked	each	200		
37	1435	Replacement of 6 pin 15/16 & 5/6 A socket outlet, piano type ISI marked	each	250		
38	1436	Replacement of Bell push piano type	each	100		
39	1437	Replacement of Telephone Socket outlet piano type	each	50		
40	1438	Replacement of T.V. Socket outlet piano type	each	50		
41	1441	Replacement of Brass pendant holder	each	30		
42	1442	Replacement of Brass batten/ angle holder	each	30		
43	1444	Replacement of Call bell/ buzzer, single phase	each	80		
44	1452	Replacement of PVC Batten/ Angle Holder	each	200		
45	1625	4 pole MCCB,250A, 36kA	each	3		
46	1627	4 pole MCCB,400A, 50kA	each	3		
47	1628	4 pole MCCB,630A, 50kA	each	3		
48	1706	Replacement of 6 amps to 32 amps, SP MCB,10 KA	each	500		
49	1707	Replacement of 6 amps to 32 amps, SPN/DP MCB, 10 KA	each	200		
50	1710	Replacement of 6 amps to 32 amps,	each	70		

		TPN MCB, 10 KA				
51	1712	Replacement of 2 Pole Isolator 40 amp	each	80		
52	1713	Replacement of 2 Pole Isolator 63 amp	each	80		
53	1714	Replacement of 4 Pole Isolator 40 amp	each	80		
54	1715	Replacement of 4 Pole Isolator 63 amp	each	50		
55	1716	Replacement of 4 Pole Isolator 100 amp	each	30		
56	1730	Replacement of 20 amps, SPN, Industrial type socket outlet, with plug top and metal chained cover in sheet steel enclosure	each	80		
57	1742	Sheet Steel DP MCB enclosure	each	40		
58	1743	Sheet Steel TPN MCB enclosure	each	40		
59	1610	3 Pole MCCB, 100A, 16KA	each	10		
60	1611	3 Pole MCCB, 125A, 16KA	each	10		
61	1612	3 Pole MCCB, 150A, 16KA	each	10		
62	1613	3 Pole MCCB, 200A, 16KA	each	10		
63	1615	3 pole MCCB 250 Amps 35 KA	each	10		
64	CIVIL DSR 14.55.1	Painting with aluminium paint of Poles(Street light)	each	150		
65	CIVIL DSR 14.54.1	Enamel paint for painting metal board/panels/wall brackets	sq. mtr.	100		
66	1.49	Numbering of Ceiling fan/ Exhaust fan/ Fl. Fitting	each	600		
67	1.52	Painting of ceiling fan in installed position with one or more coats of spray painting with synthetic enamel paint of approved brand and manufacture to give an even shade, including cleaning of surface with detergent etc. as required.	each	300		
68	5.2	Earthing with GI Earth Pipe 4.50 mtr. Long 40 mm dia I/c accessories with charcoal/ coke & salt as required.	set	10		
69	5.4	Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 meter long etc. with charcoal/ coke and salt as required.	set	10		

70	5.6	Earthing with copper earth plate 600 mm X 600 mm X 3 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 meter long etc. with charcoal/ coke and salt as required	set	10		
71	5.7	Supplying and laying 6 SWG G.I. wire at 0.50 meter below ground level for conductor earth electrode, including connection/ termination with GI thimble etc. as required	metre	100		
72	5.11	Providing and fixing 25 mm X 5 mm G.I. strip in 40 mm dia G.I. pipe from earth electrode including connection with G.I. nut, bolt, spring, washer excavation and re-filling etc. as required.	metre	40		
73	5.13	Providing and laying earth connection from earth electrode with 4.00 mm dia copper wire in 15 mm dia G.I. pipe from earth electrode including connection with copper thimble excavation and re-filling as required.	metre	100		
74	5.14	Providing and fixing 25 mm X 5 mm copper strip on surface or in recess for connections etc. as required	metre	50		
75	5.15	Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required.	metre	50		
76	5.17	Providing and fixing 4.00 mm dia copper wire on surface or in recess for loop earthing as required.	metre	100		
77	5.18	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing along with existing surface/ recessed conduit/ submain wiring/ cable as required.	metre	250		
	7.1	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 kV grade of following size direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc. as required.				
78	7.1.1	Upto 35 sq.mm	metre	60		

79	7.1.2	Above 35 sq.mm and upto 95 sq.mm	metre	60		
80	7.1.3	Above 95 sqmm and upto 185 sq.mm	metre	60		
81	7.1.4	Above 185sq.mm and upto 400sq.mm	metre	50		
	7.5	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 kV grade of following size in the existing RCC/ HUME/ METAL pipe as required.				
82	7.5.1	Upto 35sq.mm	metre	80		
83	7.5.2	Above 35 sq.mm and upto 95 sq.mm	metre	70		
84	7.5.3	Above 95 sqmm and upto 185 sq.mm	metre	60		
85	7.5.4	Above 185sq.mm and upto 400sq.mm	metre	60		
	7.6	Laying of one number PVC insulated and PVC sheathed/XLPE power cable of 1.1 KV grade of following size in the existing masonry open duct as required				
86	7.6.1	Upto 35 sq.mm	metre	50		
87	7.6.2	Above 35 sq.mm and upto 95 sq.mm	metre	60		
88	7.6.3	Above 95 sqmm and upto 185 sq.mm	metre	60		
89	7.6.4	Above 185sq.mm and upto 400sq.mm	metre	60		
	7.7	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on wall surface as required.				
90	7.7.1	Upto 35 sq.mm (clamped with 1mm thick saddle)	metre	60		
91	7.7.2	Above 35 sq.mm and upto 95 sq.mm(clamped with 25x3mm MS flat camp	metre	60		
92	7.7.3	Above 95 sqmm and upto 185 sq.mm(clamped with 25/40x3mm MS flat clamp	metre	60		
93	7.7.4	Above 185sq.mm and upto 400sq.mm(clamped with 40x3mm MS flat clamp)	metre	60		
	8.3	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 11 KV grade of following size in the existing RCC / HUME/METAL pipe as required.				
94	8.3.1	Upto 120 sq.mm	metre	50		
95	8.3.2	Above 120 sq.mm and upto 400sq.mm	metre	50		

	8.4	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 11 KV grade of following size in the existing masonry open duct as required.				
96	8.4.1	Upto 120 sq.mm	metre	50		
	9.1	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 kV grade as required.				
97		2x6 sqmm to 2x25 sqmm	Set	10		
98		3½ X 25 sq. mm to 3½ X 70 sq. mm	Set	10		
99		4x10 sqmm to 4x25 sqmm	Set	10		
100		3½ X 95 sq. mm	Set	10		
101		3½ X 150 sq. mm	Set	6		
102		3½X 300 sqmm	Set	5		
	9.4	Supplying and making straight through joint with heat shrinkable kit I/c ferules and other jointing material for following size of PVC insulated and PVC sheathed XLPE Aluminum cond. Cable of 1.1 K.V. Grade as req.				
103	a	2X16 Sqr.mm	Each	10		
104	b	2x25 Sqr.mm	Each	10		
105	c	4x16 Sqr.mm	Each	5		
106	d	4x25 Sqr.mm	Each	5		
107	e	3½X50 Sqr.mm	Each	5		
108	f	4X50 Sqr.mm	Each	5		
	2.3	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)				
109	2.3.1	6 way, Double door	each	5		
110	2.3.2	8 way, Double door	each	5		
111	2.3.3	12 way, Double door	each	3		

	2.4	Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/ Isolator)				
112	2.4.1	4 way (4 + 12), Double door	each	5		
113	2.4.2	6 way (4 + 18), Double door	each	5		
114	2.4.3	8 way (4 + 24), Double door	each	3		
115	NDSR	Replacement of Fan Capacitor 2.5MFD	each	200		
116	NDSR	Replacement of Fan Capacitor 3.15MFD	each	200		
117	NDSR	Replacement of Ventilating Fans (Exhaust Fans) 450MM	each	100		
118	NDSR	Replacement of Ventilating Fans (Exhaust Fans) 380MM	each	200		
119	NDSR	Replacement of Ventilating Fans (Exhaust Fans) 600MM	each	50		
120	NDSR	Electric Ceiling Fan Sweep Size: 1200 mm	each	200		
121	NDSR	Electric Ceiling Fan Sweep Size: 1400 mm	each	200		
122	NDSR	Fan Rewinding with Copper Wire	each	400		
123	NDSR	Replacement of Ball Bearing	each	400		
124	NDSR	Replacement of Bush	each	200		
125	NDSR	Replacement/Retrofit of 70 W HPSV Lamp with 40W LED street lights i/c.glass,lens and other accessories.	each	80		
126	NDSR	Replacement/Retrofit of 150 W HPSV Lamp with 80W LED street lights i/c.glass,lens and other accessories.	each	100		
127	NDSR	Replacement/Retrofit of 250 W HPSV Lamp with 120W LED street lights i/c.glass,lens,frame and other accessories.	each	70		
128	NDSR	Replacement/Retrofit of 400 W HPSV Lamp with 200W LED street lights i/c.glass,lens,frame and other accessories.	each	70		
129	NDSR	Replacement of Steelwire Rope 6mm dia	metre	200		

130	NDSR	Replacement of Control Copper Cable of Size 5 x 6 sqmm(For high mast light)	metre	100		
131	NDSR	Replacement of Tube Patty/fitting I.e. without choke & starter (20 W/40 W)	each	150		
132	NDSR	Replacement of 20 W/40W Copper / Electronic Choke	each	400		
133	NDSR	Replacement of Tube Starter	each	100		
134	NDSR	Replacement of Tube Holder	each	200		
135	NDSR	Replacement of 20W/ 40W Tube Light only	each	700		
136	NDSR	Replacement of 20W/40W Tube fitting complete with choke, starter but without tube.	each	500		
137	NDSR	Replacement of 5A 3pin Plug Top	each	130		
138	NDSR	Replacement of 15A 3pin Plug Top	each	130		
139	NDSR	Replacement of Bed Switch	each	70		
140	NDSR	Replacement of 5A Light Gang Box (PVC)	each	70		
141	NDSR	Replacement of 15A Power Gang Box (PVC)	each	130		
142	NDSR	Replacement of 1Way/ 2Way MCB Box (PVC)	each	120		
143	NDSR	Replacement of 20mm PVC Batton	metre	150		
144	NDSR	Replacement of 25mm PVC Batton	metre	150		
145	NDSR	Replacement of 38mm/40mm PVC Batton	metre	80		
146	NDSR	Replacement of 20mm/ 25mm PVC Flexible Pipe	metre	120		
147	NDSR	Replacement of Ding Dong Door Bell	each	60		
148	NDSR	Replacement of Remote Door Bell	each	60		
149	NDSR	Replacement of Batton Holder(Bakelite)	each	130		
150	NDSR	Replacement of Submersible Copper Cable 3 x 1.5 sqmm	metre	150		
151	NDSR	Replacement of Submersible Copper Cable 3 x 2.5 sqmm	metre	150		
152	NDSR	Replacement of Damage Starter of Motor Set DOL Starter LT/LK and siemens make	No.	4		
153	NDSR	100W 230V Bulb	each	240		
154	NDSR	9-Watt LED Lamp/bulb	each	120		
155	NDSR	Replacement of CFL Lamp complete with adapter- 15W	each	150		
156	NDSR	Replacement of CFL Lamp complete	each	150		



		with adapter- 20W				
157	NDSR	Replacement of CFL Lamp complete with adapter- 23W	each	150		
158	NDSR	Replacement of CFL Lamp complete with adapter-35W	each	80		
159	NDSR	Replacement of PL Lamp 9W pin type	each	80		
160	NDSR	Replacement of PL Lamp 11W pin type	each	150		
161	NDSR	Replacement of PL Lamp 18W/20W pin type	each	150		
162	NDSR	Replacement 4 Pole MCCB 100A 16KA IEC CERTIFIED	each	6		
163	NDSR	Replacement 4 Pole MCCB 125A 16KA IEC CERTIFIED	each	6		
164	NDSR	Replacement 4 Pole MCCB 150A 16KA IEC CERTIFIED	each	6		
165	NDSR	Replacement 4 Pole MCCB 200A 25KA IEC CERTIFIED	each	6		
166	NDSR	Replacement 2 Pole MCB 63A 10KA	each	50		
167	NDSR	Replacement 2 Pole MCB 40A 10KA	each	50		
168	NDSR	Supply of Submersible P/Set at site 3HP, 3 phase	each	4		
169	NDSR	Supply of Submersible P/Set at site 5HP, 3 phase	each	4		
170	NDSR	Supply of Submersible P/Set at site 7.5HP, 3 phase	each	4		
171	NDSR	Supply of Compact Panel Board 1-2 HP	each	3		
172	NDSR	Supply of Compact Panel Board 3 HP	each	3		
173	NDSR	Supply of Compact Panel Board 5 HP	each	3		
174	NDSR	Supply of Submersible P/Set 1.5 HP Single Phase	each	3		
175	NDSR	Supply of 5 Hp 3 phase P/Set(Sewer) Crompton Make Monoblock	each	3		
176	NDSR	P/Set for Boosting of D.J.B. Line-1HP, Single Phase (Crompton Make)	each	4		
177	NDSR	P/Set for Boosting of D.J.B. Line-2HP, Single Phase (Crompton Make)	each	3		
178	NDSR	Supply at Site 65AH 12V DC Battery	each	3		
179	NDSR	Supply at Site 120AH 12V DC Battery	each	3		
180	NDSR	Supply at Site 135AH 12V DC Battery	each	3		
181	NDSR	Supply at Site 150AH 12V DC Battery	each	3		
182	NDSR	Supply at Site 200AH 12V DC Battery	each	3		

	NDSR	Comprehensive,repair,maintenance and replacement of parts of following capacity DG Set as per attached maintenance schedule at Annexure (X)				
183	NDSR	-do- 5KVA	each	3		
184	NDSR	-do- 7.5KVA	each	8		
185	NDSR	-do- 10KVA,	each	10		
186	NDSR	Replacement of Pole Junction Box with clamp of size 150 x 200mm (approx) and 2 Nos. Aluminium Strip & 1No. 6A SP MCB(Sintex Make) PVC or similar for street light	each	60		
187	NDSR	Cleaning of existing bore well with compressor/ submersible pump set to give clean water free from sand	job	4		
188	NDSR	Lifting & Lowering of submersible P/set and increasing depth of suction pipe if required	job	5		
	NDSR	Repair/Rewinding of submersible P/Set of following capacity				
189	NDSR	-do- 1-1.5 HP Single Phase Motor	job	4		
190	NDSR	-do- 2-3 HP Single Phase Motor	job	3		
191	NDSR	-do- 5 HP 3 phase Motor	job	4		
192	NDSR	-do- 7.5 HP 3 Phase Motor	job	3		
193	NDSR	Repair of Monoblock P/Set of 5 HP I/c change of Coupling, Impellor, Bearing & Bush(sewer drainage motor)	job	4		
194	NDSR	Rewinding of 3 HP, 3 Phase Motor of monoblock set I/c oiling, greasing & change of Packing	set	4		
195	NDSR	Complete overhauling of Electric Motor & monoblock pump upto 2HP I/c its oiling, greasing & change of Packing	set	3		
196	NDSR	Complete overhauling of Electric Motor & monoblock pumpset from 3HP to 5HP I/c its oiling, greasing & change of Packing	set	5		

**Maintenance of sub-stations including HT/LT Panels, transformers, capacitors, stabilizers, UPS, HT/LT Cables, Generator Sets and other equipments etc.**

Sr.No.	Particulars of the Jobs to be carried out in Annual maintenance for HT sub-station at Tilak Vihar Dispensary Complex and Modi Mill Okhla Dispy.	Unit	Quantity	Rate (Rs.)	Amount
197	(a) Annual Comprehensive Repair & maintenance of 11 KV VCB's for incoming HT panel and transformer Circuits including CT's with replacement of dirty transformer oil, repair and overhauling of mechanism, incoming HT panel testing, calibration of relays & tripping system, megartest, checking trip test by relay, cleaning of poles, tightening of clamps, checking earthing value of all connected earth pits ,watering earth pits daily etc.	Job	1		
198	(b)---- -do---- HTVCB 11 KV Panel complete at Okhla	Job	1		
199	(a) Annual comprehensive Repair & maintenance of 11KV/440V, 315 KVA Power transformer with its incoming and outgoing cable termination and replacement of Silica Jel and Topping up transformer oil in conservative tank, meggartest, inspection/testing of neutral earthing, tightening of clamps, cleaning of transformer bushings, checking earthing value of all connected earth pits etc.	job	2		
200	(b) ----do---- Dry Type 400 KVA transformer at Okhla	Job	2		
201	Annual dehydration of dirty Transformer oil of 315/400 KVA plinth mounted transformer having capacity of approx. 550 litres transformer oil with dehydration filter machine at site to maintain 50 KV dielectric strength at Tilak Vihar	Job	4		
202	(b) ---do--- at Okhla Modi Mill Dispensary Sub-station	Job	2		
203	(a) Annual comprehensive repair, maintenance/ replacement of electric parts of 800 Amp ACB for 315 KVA transformer with replacement of HRC fuses & MCCB & contractors etc .	Job	1		
204	(b) ----do---- 800 AMP MCCB LT Main at Okhla	Job	1		
205	Annual comprehensive maintenance , repair, replacement of difference sizes of burnt switches/MCCB and HRC fuses of LT outgoing staff qtrs panel & feeders, 1Nos capacitor bank of 120 KVAR feeders alongwith DG Set AMF Panels incoming shifting system and termination of cable as per requirement & UPS of 50 KVA with UPS main panel alongwith 8 nos MCCB 100 amp+30	Job	2		

	Nos bateries.				
206	(a) Annual comprehensive maintenance of 120 KVAR shunt capacitor bank, repair, replacement of burnt/damage shunt capacitor of difference sizes 5 KVAR to 25 KVAR	Job	2		
207	(b) -do- 125 KVAR capacitor at Okhla	Job	2		
208	Painting of panels including writing of numbering of feeder, on swith panel for identification of feeders.	Job	6		
209	Supply of L.T of 1.1 KV grade PVC insulated & PVC sheathed/XLPE Aluminium conductor Armoured power Cable of ISI standard of different sizes.				
210	2x6 sqmm	R/M	500		
211	2x10 sqmm	R/M	500		
212	2x16sqmm	R/M	500		
213	4x10 sqmm	R/M	500		
214	4x16 sqmm	R/M	500		
215	4x25 sqmm	R/M	500		
216	31/2 x 50 sqmm	R/M	350		
217	31/2 x 70 sqmm	R/M	350		
218	31/2 x 95 sqmm	R/M	50		
219	31/2 x 150 sqmm	R/M	50		
220	31/2 x 240 sqmm	R/M	50		
221	31/2 x 300 sqmm	R/M	50		
222	AC Generators installed at D(M)D office & Modi Mill Okhla. (a) Comprehensive annual repair & maintenance and replacement of parts etc of AC Generators 40 KVA installed near Staff Quarters as per attached maintenance schedule at Annexure (X)	Job	2		
223	(b)-do- 82.5 KVA 2 nos.(near sub-station at Tilak Vihar Dispensary)	Job	2		
224	(c) -do- 160 KVA at Modi Mil Okhla	Job	2		
225	(d) Mobile oil for generators(but diesel oil cost not included)	litre	250		
226	(e) Replacement of batteries terminals and with lead connectors in DG Sets	Sets	5		
227	(f) Minimum Service of DG Sets 2 times a year upto 10 KVA	Job	10		

228	(g)5 Annual Maintenance and repair of AMF Panel & replacement of defective parts	Job	2		
229	Supplying/Fixing of recess mounted compact vertical round shaped down lighter in white finished I/C testing completed as req.(LED) (A).5.5watt	Each	50		
230	(b) 3.5 watt	Each	50		
231	Supplying/Fixing of decorative Gate light made up of high grade unbreakable polycarbonate material suitable 20 watt CFL lamp on the existing pole I/c testing completed as req.				
	(a) 1X20 watt CFL	Each	50		
232	Supplying/Fixing of decorative wall mounted fixture with Opel glass diffuser suitable for 15 watt CFL I/c testing completed as req.	Each	20		
233	Installation of AC window type/ Split type and various accessories INCLUDING LABOUR				
234	(A) Window Type	Each	20		
235	(B) Split Type	Each	20		
236	(C) Gas Charging	Each	40		
237	(D) Copper Pipe	Mtr.	50		
238	(E) Stabilizer	Each	10		
239	Lifting out of the stagnate/ Fallen submersible pump set from the existing bore wall I/c dismantling the GI pipe line sluive valve Gate Wall NRV etc. completed as req.	Job	2		
240	Supplying and fixing of MS. Flat of size 75X10mm X750mm 2 nos. I/c nut bolt workar etc. as req.	Sets	10		
241	S/Fixing , testing and commissioning fire alarm sounder (Electronics) with facility to make announcement mounted in MS box (16SWG Sheet) with hinged cover plate and suitable for operation with Amplifire I/c line matching transformer completed as req.	Each	24		
242	S/Fixing of Microprocessor 220nos. Main control alarm panel made out of 16 SWG CRCA sheet with hinged front cover and acrylic sheet in front with locking arrangement I/c audio and visual indicator of 1 no. /open/shed circuit test cap test buttons built is battery Charger power supply card zonal card completed with PA system 65 watt I/c 12 V DC supply system with 2 no. 7 AH maintenance free battery with connection completed at req.	Each	10		
243	S/Fixing of nominal 2 mm +10% thick inncotated thick synthetic mat of confirming IS-15652/2006	Sq. Mtr.	100		

	and meeting the requirement of IS-5216(Part I,II,III) IIS-18437 and IEC-479 pub-1 along with suitable adhesive chemiboundpuresis water proofing compound and sealing matereal as per in service recommendation fo annexare (A) ap to 3.3 KV without H.T. Trolley movement (L.T. Panel)				
244	S/Fixing of nominal 2.5 mm +10% thick insultated synthetic mat of confirming IS-15652/2006 and meeting the requetement of IS-5216(PartI,II,III) IS-8437 and IEC-479 pub-1 along with suitable adhesive chemiboundpure-sisewather profing compound and sealing mate-riual as per in service (A)up to 11KV with H.T. Trolley movement	Sq. Mtr.	50		
245	Supplying installation , testing and commissionin of wall mounted double door L.T Panel cum feeder pillar made out of 2 mm thick CRCA MS Sheat out door type with locking arrangement , hinged gasket knobs of size 1200 mm x 500 mm x250mm (nominal) suitable for 415 volt 250 Amps MCCB. Alluminium Bus Bar I/c suppling and fixing following items earthing the panel inter connection with suitable copper wire & other dea-tails as per drg. Attacched	Set	24		
	(A) 250 Amps 415 Volts MCCB - 1 No.				
	(B) 200 Amps Al. Bus Bar 4 Strips 600 mm long - 1 Set				
	(C) 100 Amps 415 Volts MCCB - 3 Nos.				
	(D) Danger notice plate - 2 Nos.				
	(E) Supplying & making end termination with brass compression gland Al. Lugs, thimble suitable for PVC insulated PVC sheathed Al. Cond. Armoured cable 1.1 KV grade as required. (i) 3.5 C x 50 Sq. mm - 1 No (ii) 2 C x 25 Sq. mm – 3 Nos.				
<b>Fire Fighting and Fire alarm systems at ESI D(M)D Office Tilak Vihar, ESI Dispensary Modi Mill Okhla and various other Dispensaries in New Delhi.</b>					
	Replacement of following faulty/defective items complete with testing and commissioning etc as reqd.				
246	Smoke Detector	each	10		
247	Heat Detector	each	10		
248	12V 26AH SMF Battery	each	8		

	Replacement / Repairing of following faulty/ defective items in main panel / system of automatic Fire Detection and Fire Alarm System complete with providing minor spares I/c commissioning as reqd..				
249	Response Indicator	each	30		
250	Manual Call Box	each	10		
251	Hooter/ Speaker	each	10		
252	Zone Card	each	12		
253	Control Card	each	2		
254	Supply of Fire Extinguisher Carbon Dioxide Type: Portable, Capacity (Kgs): 4.5, Body Material: MS, Material of Syphon Tube: Al, Type of Discharge valve: Squeeze grip	each	10		
	Refilling of following type of fire extinguishers & painting with good quality of paint including testing complete as required				
255	4.5 Kg CO2 type fire extinguisher	each	10		
256	5 Kg DCP type fire extinguisher	each	240		
257	9 Kg DCP type fire extinguisher	each	10		

**(D) ABTRACT OF COST**

**ANNUAL REPAIR AND MAINTENANCE OF SPLIT & WINDOW AC UNITS & REFRIGERATOR UNITS AT ESIC DISPENSARIES, BRANCH OFFICES AND D(M)DELHI TILAK VIHAR**

Sl. No.		Description of item	Qty.	Unit	Rate (Rs.)	Amount (Rs.)
AC-1	NDSR	Annual Comprehensive Repair /Maintenance of Package Split type Air Conditioners i/c comprising of cleaning, oiling of Blower Motor & other Parts, change of filter, Pads, replacement of any or all parts of AC Systems control panels, switches, cables, fans, repair and rewinding of Motors, wires, checking and sealing leakage of copper pipes, drain pipes, remote controls, Gas Charging , checking of current drawn by each AC to known the healthy condition. The comprehensive service would i/c chemical service & wet service etc. as required.	90	Each		

AC-2	NDSR	Annual Comprehensive Repair / Maintenance of Package Window type Air Conditioners i/c comprising of cleaning, oiling of Blower Motor & other Parts, change of filter, Pads, replacement of any or all parts of AC Systems control panels, switches, cables, fans, repair and rewinding of Motors, wires, checking and sealing leakage of copper pipes, drain pipes, remote controls, Gas Charging , checking of current drawn by each AC to known the healthy condition. The comprehensive service would i/c chemical service & wet service etc. as required.	153	Each		
RF-1	NDSR	Annual Comprehensive Repair/Maintenance of Refrigerator i/c comprising of replacement of any or all parts of Refrigerator Systems control panels, switches, bulb, cables, wires, copper pipes, drain pipes, Gas Charging , checking of current drawn by each refrigerator to known the healthy condition. The comprehensive service would i/c chemical service & wet service etc. as required.	55	Each		