

বিদ্যুৎ-যান্ত্রিক কাজের দামের তালিকা (প্রথম ভাগ)  
**Schedule of Rates for Electrical-Mechanical Works**  
**(Volume-1)**

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পশ্চিমবঙ্গ সরকার  
**Government of West Bengal**

অক্টোবর, ২০১৮

October, 2018



## Preface

Over the last few years with varying aspect from dedications which comes before the introduction, foreword which is not interchangeable but it is important to introduce and focus to different sections for application of this Schedule of rates (SOR), SOR of Public Works Department (PWD) are used throughout the State of West Bengal in all types of works of Civil, Roads, Electrical and Mechanical Schedule of PWD are prepared mainly on general scope of PWD where required. All the scope of electrical/mechanical works like street lighting works, pumping station works, crematorium works, Building works (electrical) etc are not available in PWD SOR.

The Schedule of Rates covered in this SOR are the Electrical/Mechanical works which are not included in PWD (WB) SORs. However to arrive the rates for consolidated items (which are frequently used by the different organizations under this department) the rates of different kind of labours and materials have been taken from the PWD Schedule of rates Government of West Bengal.

So, in terms of notification No-879/MA/C-1/Misc-19/2018 dt-17.07.2018 of UD & MA Department. This Schedule of rates (SOR), for Electrical/Mechanical has been prepared, to avoid handling problem and reducing the probability of committing error during preparation of estimates, as well.

In this SOR the cost of material and the cost of labour have been considered as per the present rates. The rates of materials which are not available in the SOR of PWD have been taken from the present market rate.

GST and Construction Labour Welfare Cess (1%) have not been considered within the rate of item of works. These are to be added separately during preparation of actual estimate.

This will take effect on & from 10<sup>th</sup> October, 2018.

The SOR has been prepared under a time-constraint manner, though all efforts have been taken for keeping this publication error free. However, effective suggestion for any correction, addition, addendum & alteration is always welcome for any further betterment in future.

It is pertinent to mention here that if any other item of works that may be frequently required for execution of E/M works in future shall be added to this SOR either as addendum or revised SOR. The methodology attached has may be considered for preparation of rates against the items which are not considered in the SOR.

Lastly, we on behalf of the Schedule committee would like to convey our sincere thanks to those Engineer Officers who have co-operated with suggestions and also expect fruitful comments and suggestions from all concerns in future, as ever.

Disclaimer:

The rates taken in this Schedule are indicative and actual rates shall be governed by the market forces. Further it's use by the government departments, PSUs, Private Bodies and individuals shall be at their own risk and discretion. MA & UD Department, Govt. of West Bengal shall not be responsible for any ambiguity, discrepancy, dispute or financial loss arising directly or indirectly by using or following SOR by such government department/PSUs/Private Bodies/Individuals.

Member-Convenor, The SOR Committee  
& Secretary, MED

The Chairman, The SOR Committee  
& the CEO, KMDA

Chief Executive Officer  
KMDA



## Methodology for derivation of RATES of the Non-Scheduled Items by the concerned Sectoral Head

Step-1	
a.	Having Published Price List of the Manufacturers
b.	To invite budgetary offer from the manufacturers by communication, if any published price list in manufacturers website is not available; In that case minimum 3 nos. rate to be collected. If not, reasons to be specified.
c.	To invite budgetary offer from authorized agencies of manufactures, if any where rate from manufacturers is not available; In that case minimum 3 nos. rate to be collected. If not reasons to be specified
d.	To invite budgetary offer from vendors where rates are not available from the manufactures/ authorized agencies of manufactures. In that case minimum 3 nos. rate to be collected. If not, reasons to be specified.
e.	In cases of works where procurement & installation or servicing works involves professionals expertise (to be ascertained by the concerned department with due certification of the Sectoral Head), budgetary offer can be collected from the experienced vendors/agencies etc. who have executed similar type of works previously, in that case minimum 3 nos rate to be collected. If not, reasons to be specified.
Step-2	
a.	In case of the works whether labour/technical experts, if any (to be ascertained by the concerned department with due certification of the Sectoral Heal) are involved, analysis is to be furnished by the department for execution of particular items of job. In that case minimum 3 nos. rate to be collected. If not, reasons to be specified.

### Case-I In case of Procurement – having the Published Price List of the Manufacturer

Sl. No.	Description	Amount	Remarks
1	Material Cost	A	Respective rate as stated in above (Steps) i.e. Published Price List of the Manufacturers
2	Freight & Insurance	B	Do
3	Total Base Rate of Complete Item	A + B	The derived rates are exclusive of GST & LWC

### Case-II In case of Procurement – having Budgetary Offer

Sl. No.	Description	Amount	Remarks
1	Material Cost	A	Respective offered rate as stated in above (Steps)
2	Freight & Insurance	B	Do
3	Add Contractors' Profit @10%	10% of (A + B) = C	As considered in Latest SOR PWD Govt. of W.B.
4	Total Base Rate of Complete Item	A + B + C	The derived rates exclusive of GST & LWC



Sl. No.	Description	Amount	Remarks
1	Composite type of item Cost	A	Respective offered rate as stated in above
2	Add Contractors' Profit @ 10%	10% of A = B	As considered in Latest SOR PWD Govt. of
3	Total Base Rate of Complete Item	A + B = C	The derived rates are exclusive of GST & LWC

Sl. No.	Description	Amount	Remarks
1	Material Cost & freight cost	A	Respective offered rate as stated in above (Steps)
2	Labour / Technical Expert cost	B	As considered in Latest SOR PWD Govt. of W.B./ Respective offered rate as stated in above steps
3	Tools, Tackles & allied Accessories @ 1%	1% of B = C	As considered in Latest SOR PWD Govt. of W.B.
4	Sundries @ 1%	1% of (E + C) = D	DO
5	Overhead Charges @ 5%	5% of (B + C + D) = E	DO
6	Add Contractors' Profit @ 10%	10% of (A + B + C + D + E) = F	DO
7	Total Base Rate of Complete Item	A + B + C + D + E + F	The derived rates are exclusive of GST & LWC

In case of the works where professional experts (to be ascertained by the concerned department) are involved (Manimum 3 nos rate to be collected, if not reasons to be specified)

Sl. No.	Description	Amount	Remarks
1	Labour / Technical Expert cost	A	As considered in Latest SOR PWD Govt. of W.B. / Respective offered rate as stated in above Steps
2	Tools, Tackles & allied Accessories @ 1%	1% of A = B	As considered in Latest SOR PWD Govt of W.B.
3	Sundries @ 1%	1% of (A + B) = C	DO
4	Overhead Charges @ 5%	5% of (A + B + C) = D	DO
5	Add Contractors' Profit @ 10%	10% of (A + B + C + D) = E	DO
6	Total Base Rate of Complete Item	A + B + C + D + E	The derived rates are exclusive of G ST & L WC





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# **A-Series**

**(RATE)**

**UD & MA SCHEDULE**



## A-Series

## Outdoor Lighting Installation Steel Tubular Pole/M.S Pipe/G.I Pipe, pole CAP etc

Serial Number	Description of Items	Unit	Rate (without GST & Cess) (in Rs.)
1	Supplying of Swaged Steel Tubular pole (IS 2713, Pt. II 1980) for following designation and of following dimensions		
a	4 SWG; 4.5mtrs; 40 Kg	Each	3541.00
b	4 SWG ;5.0 mtrs; 45 Kg	Each	4216.00
c	4 SWG ;6.0 mtrs; 54 Kg	Each	4853.00
d	410-SP-1; 7.0 mtrs: 62.00Kg	Each	5383.00
e	410-SP-9 ; 7.5mtrs: 110Kg	Each	9550.00
f	410-SP-11; 8.0 mtrs: 83.00Kg	Each	7206.00
g	410-SP-21; 8.5 mtrs: 129Kg	Each	11199.00
h	410-SP-24; 8.5 mtrs: 158 Kg	Each	13717.00
i	410-SP-30 ; 9.0mtrs: 133 Kg	Each	11547.00
j	410-SP-33; 9.0mtrs: 164 Kg	Each	14238.00
k	410-SP-53; 11.0mtrs: 183 Kg	Each	15888.00
l	410-SP-60; 12.0mtrs: 208 Kg	Each	18058.00
	(Outside dia& thickness are given in annexure-I		
2	Supplying 80 mm dia G.I. pipe (JINDAL/equivalent) 3.25 m long (approx) in C.C foundation 0.46 m* 0.4m*0.9 m depth of 1:3:6 mixture with stone chips and supplying and fixing base plate including muffing of 0.3m*0.3m painting with 2 coats of Aluminum paint over a coat of red oxide and numbering and S/F earth bolt, cable entry socket etc	Each	3476.00
3	Supplying and fixing of G.I. Pole Cap for suitable size	Each	197.00
4	Erection of Minipole of height 3.25 mtr to 5.0 mtr. in C.C Foundation 0.46 m * 0.46 m * 0.9 mtr depth of 1:3:6 cement concrete with hard jhama metal / stone chips including muffing of 0.3 m * 0.3 m * 0.3 m painting the pole with 2 coats of Aluminium paint over a coat red oxide.	Each	1605.00
5	Supplying and fixing of M.S. sole plate (450 x 450 x 6m)At the bottom of the pole	Each	887.00
6a	Erection of single steel tubular pole up to 9m including MS sole plate (23 m dia * 6 m thick ) cap etc over flyover bridge etc with C.C foundation (4:3:1) with graded stone chip (3/4" down) surrounding the pole base 2' * 2' up to a height of 1.35 m (4.1/2") from the pole base with 2 coats of black paint and then fixing the pole by means of 3 nos 4" * 1.1/2" * 1/4" clamps to the fencing of the bridge at a suitable distance and providing the passage of wire / cable leading through hard polythene pipe (1.1/2") and also ebonite sheet 4-way ebonite terminal connector block including connection with lug by crimping arrangement and also neat cementing of pole base and finishing.	Each	4280.00

## Schedule of Rates

Serial Number	Description of Items	Unit	Rate (without GST & Cess) (in Rs.)
6b	Erection of single steel tubular pole.....do.....without loopbox	Each	3822.00
7	Supplying and Erection of additional foundation having Dimension of 600 * 600 * 600 mm C.C foundation (6:3:1) with graded stone chips (3/4" down) providing R.B. Net of 2" * 4" in size including neat cementing.	Each	1208.00
8	Construction of foundation of existing pole below G.L. having of dimension of 0.6 x 0.6 x 0.6 mtr (2'x 2'x2') with graded stone chips (19mm down) in cement concrete proportion of 6:3:1 after necessary excavation including scraping .	Each	1171.00
9	Painting steel tubular pole including projected arm bracket with one coat of red oxide primer and two coats with silverlac Al. paint (Scraping where necessary). Pole painting upto 5mtr. Pole	Each	183.00
10	Painting steel tubular pole including projected arm bracket with one coat of red oxide primer and two coats with silverlac Al. paint etc. (Scraping where necessary).Painting upto 7 mtr Pole	Each	256.00
11	S/F 2-way carrying bracket of M.S. angle of section 40 mm x 40mm x 6 mm and of length 600 mm including providing 75 mm x 88 mm insulator.	Each	-198.00
12	S/F 3-way carrying bracket of M.S. angle of section 40x40x6 mm and of length 750 mm including providing 75 mm x 88 mm insulator.	Each	-258.00
13	Supplying and fixing of box bracket to receive "D" iron & earth clamp for O.H. line as per drawing and direction of Engineer-In-Charge.	Each	1984.00
14	Supplying and fixing of box bracket (Miniature Size) to receive "D" iron & earth clamp for O.H. line as direction of Engineer-In-Charge.	Each	1369.00
15	Supplying & fixing 50 mm (2") dia x 5.24 mtr long (Incl. bend) galv. pipe vertical type service bracket on wall for carrying 3 wire and earth wire complete with galvanized M S clamp for stay insulators and earth wire No. 7/14 SWG stranded stay wire, with 230 mm dia x 31 mm dia straining screw 75x88mm (3" x 3.1/2") porcelain shackle insulator with galv. strap, bolts, bush etc.	Each	2138.00
16	S/F G.I. Barbed wire for guarding of top section of pole and necessary clamping with clamps of size 25 x 6 mm.	Each	156.00
17	S/F heavy gauge Barbed wire 4-ply 3.28 mtr long along the top section of pole and 2.1 mtr long on arm bracket etc as per direction of Engineer-In-Charge.	Each	260.00
18	S/F projected lamp bracket of G.I. pipe (I.T.C.) (Class-B of 40 mm bore dia and 1.5 m) length with tie rod and "S" type ornamental scroll to be fitted at a point 600 mm from the top of the pole by means of clamps, bolts, nuts etc. as required.	Each	538.00

Serial Number	Description of Items	Unit	Rate (without GST & Cess) (in Rs.)
19	S/F projected lamp bracket made 50mm dia G.I. Pipe of 1.85 M (6') in length of which 0.9M (3') In projection having an angle of 105 degree with clamps, bolts, nuts & clamps, etc. as required.	Each	888.00
20	S/F arm bracket of 50 mm bore tubular Pipe (M.S.) of 1.5 m (5') length for fixing on 75/100 mm pole top including S/F 4 mm thick M.S. plate welded with bolts, nuts & clamps, etc. as required with fabrication work	Each	1058.00
21	S/F 15 ft long 2" dia G.I. pipe (ISI medium) with necessary bends by means of reducing M.S. Socket ( 4.1/2"x 2.1/4") 9" long and 4.5mm thick with necessary bolts, nuts etc. as required as per direction of Engineer-In-Charge.	Each	1633.00
22	S/F single arm projected lamp bracket (Single pipe bending ) of 50cm (2") dia G.I. pipe (ISI medium) 3.65 mm thick of 2.1 mtr (6' approx) long having 105 degree curvature with reducing socket to be fitted at the top of the pole with bolts, nuts, clamps etc. as required.	Each	881.00
23	S/F double arm projected lamp bracket (Single pip bending) of 50mm (2") dia G.I. pipe (ISI medium) of 2.5 mtr long each having 105 degree curvature with reducing socket to be fitted at the top of the pole with bolts, nuts clamps etc. as required	Each	2491.00
24	S/F fabricating, welding, fixing G.I. junction and 2.1mtr long single arm projection bracket made of G.I. with 2 nos. thro' bolts & nuts of 175 mm (7") long 15.6 mm (5/8") dia including S/F M.S. pole cap at the top of with set screw etc as per drawing and direction of Engineer-In-Charge.	Each	1453.00
25	S/F fabricating, welding, fixing G.I. junction and 1.68 m long 40 mm dia single arm projection bracket made of G.I. pipe (ISI medium) with 2 nos. thro' bolts & nuts of 175 mm (7") long 15.6 mm (5/8") dia incl S/F M.S pole cap at the top of junction with set screw etc. as per drawing and direction of Engineer-In-Charge.	Each	1178.00
26	S/F including fabrication, welding, fixing G.I. junction 6 arm projected bkt. with 2 nos. thro' bolts & nuts of 7"long and 5/8" dia including M.S.pole cap at the top of the junction with set screw etc. as reqd. and as per direction of Engineer-In-Charge for arm 2.1M long (G.I. Pipe) (ISI medium).	Each	7509.00
27	S/F bend type arm bracket 2.7M long 40M dia G.I. pipe (ISI medium) with M.S. pole (up to 115 mm dia) having a projection of 1.35 M at an angle of 105 degree by means of clamps (450 mm x 40 x6 mm) and necessary bolts, nuts, clamps etc. as required. The work is to be done as per direction of Engineer-In-Charge.	Each	958.00

## Schedule of Rates

Serial Number	Description of Items	Unit	Rate (without GST & Cess) (in Rs.)
28	S/F fabricating, welding, fixing G.I. junction and 2.1 M long single arm projected bracket made of 50mm dia G.I. (ISI medium) with 2 nos. thro' bolts & nuts of 175 mm (7") long 15.6 mm (5/8") dia including M.S. pole cap at the top of junction with sets screw etc. complete as per direction of Dep't	Each	1175.00
29	S/F fabricating, welding, fixing G.I. junction and 1.5 M long single arm projected bracket made of 50mm dia G.I. (ISI medium) with 2 nos. thro' bolts & nuts of 175 mm (7") long 15.6 mm (5/8") dia including M.S. pole cap at the top of junction with sets screw etc. complete as per direction of Dep't	Each	977.00
30	S/F fabricating, welding, G.I. junction and 2.1 M long double arm projected bracket made of 2" dia G.I. pipe (ISI medium) with 2 nos. thro' bolts & nuts of 175 mm(7") long 15.6 mm (5/8") dia junction with set screw etc. complete as per per direction of Engineer-In-Charge.	Each	1868.00
31	Slot cutting in making cover with sleeve arm bracket including making provision of 15 Amp fuse unit and other accessories in the sleeve including necessary connection	Each	2629.00
32	S/F M.S. loop box (14 SWG) of size 10 cm x 10 cm x 7.5 cm suitable for housing the water-tight switch and providing the wire lead in lead out arrangement for switch and lamp holder connection. One side of the cover lid of the box is to be hinged type and the other side with proper clamping and locking arrangement the box. The set is to be fixed in suitable position on iron leg on wall as per direction of Engineer-In-Charge.	Each	305.00
33	S/F of special head type M S loop box (3 mm thick) with connecting bar and other accessories fixed on the top the pole as required and as per direction of Engineer-In-Charge. For 3 phase connection.	Each	518.00
34	S/F M. S. loop box (10 SWG) of size 10.3/4 "x 8.3/4" x 5" (269mm x 219mm x125mm) having almirah type cover complete with special type locking arrangement including S/F 8 "x6" x1/4" (200mm x 150mm x 6 mm) bakelite sheet 1 no. 4-way ebonit connector block, 1 No. 15 Amp fuse unit fitted inside the box and suitable size danger board riveted on cover of the box outside & fixing the box with pole by means of M.S. Clamps of 1"x1/4" (25mm x 6mm) of suitable length and encasing the box by 1:3:6 cement concrete with graded stone chip (3/4" down). The depth of the concrete should be 60cm x 54cm x 54cm including plastering and neat cementing and S/F 2 Nos. compression gland of suitable size and making all necessary connections as reqd.	Each	1147.00
35	Installation the feeder pillar box only on cement brick foundation including plastering and neat cementing as per specification and direction of E.I.C.	Each	2396.00



Serial Number	Description of Items	Unit	Rate (without GST & Cess) (in Rs.)
36	Installation the feeder pillar box only on cement brick foundation including plastering and neat cementing as per specification and direction of E.I.C. b) For medium size feeder pillar box.	Each	3025.00
37	Installation the feeder pillar box only on cement brick foundation including plastering and neat cementing as per specification and direction of E.I.C. c) For large size feeder pillar box.	Each	3776.00
38	Supplying & Erection of mini size feeder pillar box of Size (918 x 561 x 382 mm) made up of 2 mm thick MS Plate along with suitable M.S. Angle. The P.B. have double hinge door at the front & back with suitable locking arrangement. The box will be painted by 2 cores of aluminium paint over 1 coat of red oxide paint. Suitable arrangement should be provided for fixing of Timer unit, fuse unit & other accessories. Leg of the pillar box will be 900 mm in length by made up of (35 x 35 x 3 mm MS Angle with suitable base Plate. Legs of the Pillar box will be erected at 300 mm below the ground level with cement concrete (6:3:1). Rest portion covered by 5" Brick Wall with plastering & net cement & bottom portion filled with silver sand as drawing & direction of E.I.C	Each	7053.00
39	Supplying & Erection of medium size feeder pillar box of Size (1200 x 750 x 450 mm) made up of 2 mm thick MS Plate along with suitable M.S. Angle. The P.B. have double hinge door at the front & back with suitable locking arrangement. The box will be painted by 2 cores of aluminium paint over 1 coat of red oxide paint. Suitable arrangement should be provided for fixing of Timer unit, fuse unit & other accessories. Leg of the pillar box will be 900 mm in length by made up of (35 x 35 x 3 mm MS Angle with suitable base Plate. Legs of the Pillar box will be erected at 300 mm below the ground level with cement concrete (6:3:1). Rest portion covered by 5" Brick Wall with plastering & net cement & bottom portion filled with silver sand as drawing & direction of E.I.C	Each	9241.00
40	Supplying & Erection of big size feeder pillar box of Size (1372 x 914 x 607 mm) made up of 3.15 mm thick MS Plate along with suitable M.S. Angle. The P.B. have double hinge door at the front & back with suitable locking arrangement. The box will be painted by 2 cores of aluminium paint over 1 coat of red oxide paint. Suitable arrangement should be provided for fixing of Timer unit, fuse unit & other accessories. Leg of the pillar box will be 900 mm in length by made up of (35x35x3 mm MS Angle with suitable base Plate. Legs of the Pillar box will be erected at 300 mm below the ground level with cement concrete (6:3:1). Rest portion covered by 5" Brick Wall with plastering & net cement & bottom portion filled with silver sand as drawing & direction of E.I.C.	Each	13849.00

## Schedule of Rates

Serial Number	Description of Items	Unit	Rate (without GST & Cess) (in Rs.)
41	Supply and drawing of 7/14 SWG galvanised stranded wire for drawing unarmored cable (supply of cable is not included in the scope) by catenary system of wiring with 3nos. reel insulator per mtr. and binding with binding wires etc,as reqd. for drawing	RM	28.00
42	Drawing of unarmoured cable of suitable size (supply of cable is not included in the scope)on existing Galvanized stranded wire for centenary system with reel insulators and binding wires.	RM	7.00

# **B-Series**

**(ANALYSIS)  
UD & MA SCHEDULE**



## SUPPLY AND/OR FIXING ITEM

SI No.	Description of Items			Unit	Rate (without GST & CESS) (in Rs.)
1	Supplying of 1.1 KV. Grade PVC insulated Conductor of following cables (make: Polycab/ Gloster/Havells):				
	Size in Sq. mm	No & dia. of wire in mm	No of Core		
a)/1	4	1/2.24	2	R.M.	73.00
a)/2	4	1/2.24	3	R.M.	80.00
a)/3	4	1/2.24	4	R.M.	93.00
b)/1	6	1/2.80	2	R.M.	85.00
b)/2	6	1/2.80	3	R.M.	94.00
b)/3	6	1/2.80	4	R.M.	106.00
c)/1	10	1/3.55	2	R.M.	101.00
c)/2	10	1/3.55	3	R.M.	118.00
c)/3	10	1/3.55	4	R.M.	132.00
d)/1	16	7/1.70	2	R.M.	116.00
d)/2	16	7/1.70	3	R.M.	125.00
d)/3	16	7/1.70	4	R.M.	151.00
e)/1	25	7/2.24	2	R.M.	130.00
e)/2	25	7/2.24	3	R.M.	169.00
e)/3	25	7/2.24	3½	R.M.	190.00
f)/1	25	7/2.24	4	R.M.	206.00
f)/2	35	7/2.50	2	R.M.	151.00
f)/3	35	7/2.50	3	R.M.	201.00
f)/4	35	7/2.50	3½	R.M.	226.00
g)/1	35	7/2.50	4	R.M.	252.00
g)/2	50	7/3.00	2	R.M.	187.00
g)/3	50	7/3.00	3	R.M.	254.00
g)/4	50	7/3.00	3½	R.M.	294.00
h)/1	50	7/3.00	4	R.M.	324.00
h)/2	70	19/2.24	2	R.M.	251.00
h)/3	70	19/2.24	3	R.M.	342.00

## Schedule of Rates

Sl No.	Description of Items			Unit	Rate (without GST & CESS) (in Rs.)
h)/4	70	19/2.24	3½	R.M.	399.00
i)/1	70	19/2.24	4	R.M.	439.00
i)/2	95	19/2.50	2	R.M.	322.00
i)/3	95	19/2.50	3	R.M.	424.00
i)/4	95	19/2.50	3½	R.M.	482.00
j)/1	95	19/2.50	4	R.M.	536.00
j)/2	120	37/2.06	2	R.M.	382.00
j)/3	120	37/2.06	3	R.M.	508.00
j)/4	120	37/2.06	3½	R.M.	602.00
k)/1	120	37/2.06	4	R.M.	656.00
k)/2	150	37/2.24	2	R.M.	462.00
k)/3	150	37/2.24	3	R.M.	626.00
k)/4	150	37/2.24	3½	R.M.	712.00
l)1	150	37/2.24	4	R.M.	809.00
l)2	185	37/2.50	2	R.M.	576.00
l)3	185	37/2.50	3	R.M.	766.00
l)4	185	37/2.50	3½	R.M.	889.00
m)/1	185	37/2.50	4	R.M.	1004.00
m)/2	240	37/3.00	2	R.M.	749.00
m)/3	240	37/3.00	3	R.M.	979.00
m)/4	240	37/3.00	3½	R.M.	1119.00
n)/1	240	37/3.00	4	R.M.	1282.00
n)/2	300	61/2.50	2	R.M.	913.00
n)/3	300	61/2.50	3	R.M.	1183.00
n)/4	300	61/2.50	3½	R.M.	1372.00
o)/1	300	61/2.50	4	R.M.	1546.00
o)/2	400	61/3.00	2	R.M.	1149.00
o)/3	400	61/3.00	3	R.M.	1503.00
o)/4	400	61/3.00	3½	R.M.	1747.00
p)/1	400	61/3.00	4	R.M.	1964.00
p)/2	500		2	R.M.	1520.00
p)/3	500		3	R.M.	2037.00
p)/4	500		3½	R.M.	2374.00
q)/1	500		4	R.M.	2665.00

Sl No.	Description of Items	Unit	Rate (without GST & CESS) (in Rs.)
2	Supplying of the following HIGH TENSION XLPE Cables (make:Polycab/Gloster/Havells):		
a)/1	3Corex35 sq mm 6.6 KV (UE) 11KV(E) XLPE	R.M.	24.00
a)/2	3Corex50 sq mm 6.6 KV (UE) 11KV(E) XLPE	R.M.	592.00
a)/3	3Core x 70 sq mm 6.6 KV (E)XLPE	R.M.	658.00
a)/4	3Corex70 sq mm 6.6 KV (UE) 11KV(E) XLPE	R.M.	703.00
a)/5	3Core x 95 sq mm 6.6 KV (E)XLPE	R.M.	784.00
a)/6	3Corex95 sq mm 6.6 KV (UE) 11KV(E) XLPE	R.M.	832.00
a)/7	3Core x 120 sq mm 6.6 KV (E)XLPE	R.M.	915.00
a)/8	3Corex120 sq mm 6.6 KV(UE) 11KV(E) XLPE	R.M.	959.00
a)/9	3Core x 150 sq mm 6.6 KV (E)XLPE	R.M.	1032.00
a)/10	3Corex150 sq mm 6.6 KV(UE) 11KV(E) XLPE	R.M.	1072.00
b)/1	3Core x 150 sq mm 11 KV(UE) XLPE	R.M.	1383.00
b)/2	3Core x 150 sq mm 22 KV(E) XLPE	R.M.	1410.00
b)/3	3Core x 150 sq mm 33 KV(E) XLPE	R.M.	1804.00
b)/4	3Core x 185 sq mm 6.6 KV (E)XLPE	R.M.	1191.00
b)/5	3Corex185 sq mm 6.6 KV (UE) 11KV(E) XLPE	R.M.	1248.00
b)/6	3Core x 185 sq mm 11 KV(UE) XLPE	R.M.	1546.00
b)/7	3Core x 185 sq mm 22 KV(E) XLPE	R.M.	1580.00
b)/8	3Core x 185 sq mm 33 KV(E) XLPE	R.M.	1992.00
b)/9	3Core x 240 sq mm 6.6 KV (E)XLPE	R.M.	1441.00
b)/10	3Corex240 sq mm 6.6 KV(UE) 11KV(E) XLPE	R.M.	1497.00
c)/1	3Core x 240 sq mm 11 KV(UE) XLPE	R.M.	1819.00
c)/2	3Core x 240 sq mm 22 KV(E) XLPE	R.M.	1852.00
c)/3	3Core x 240 sq mm 33 KV(E) XLPE	R.M.	2279.00
c)/4	3Core x 300 sq mm 6.6 KV (E)XLPE	R.M.	1719.00
c)/5	3Corex300 sq mm 6.6 KV(UE) 11KV(E) XLPE	R.M.	1741.00
c)/6	3Core x 300 sq mm 11 KV(UE) XLPE	R.M.	2091.00
c)/7	3Core x 300 sq mm 22 KV(E) XLPE	R.M.	2124.00
c)/8	3Core x 300 sq mm 33 KV(E) XLPE	R.M.	2559.00
c)/9	3Core x 400 sq mm 6.6 KV (E)XLPE	R.M.	2149.00
c)/10	3Corex400 sq mm 6.6 KV(UE) 11KV(E) XLPE	R.M.	2189.00
d)/1	3Core x 400 sq mm 11 KV(UE) XLPE	R.M.	2458.00
d)/2	3Core x 400 sq mm 22 KV(E) XLPE	R.M.	2502.00
d)/3	3Core x 400 sq mm 33 KV(E) XLPE	R.M.	2963.00
3	Supplying Al.conductor PVC insulated and sheathed unarmoredcable (1.1KVgrade, Gloster/Havells/Polycab).		
a)	4sqmm x 2core	R.M.	48.00
b)	6sqmm x 2core	R.M.	53.00
c)	10sqmm x 2core	R.M.	64.00
d)	10sqmm x 4core	R.M.	93.00
e)	16sqmm x 2core	R.M.	76.00
f)	16sqmm x 4core	R.M.	123.00

## Schedule of Rates

Serial Number	Description of Items	Unit	Rate (without GST & Cess) (in Rs.)
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 accessories	sq.ft.	495.00
5	Supply and delivery of 230V,50Hz Heavy duty Metal 12"exhuast fan.	Each	2093.00
6	Supply and delivery of 230V,50Hz Heavy duty Metal 9"exhuast fan.	Each	1863.00
7	Supply & delivery of the following single phase, 240 Volt, 50 Hz, AC Energy meter of accuracy: class-I with LCD display (L&T/ABB/SCHNEIDER):		
	a) 5 to 30 Amp (without optical port)	Each	1270.00
	b) 0 to 30 Amp (with optical port)	Each	1775.00
	c) 10 to 60 Amp (without optical port)	Each	1503.00
	d) 10 to 60 Amp (with optical port)	Each	1922.00
8	Supply & delivery of the following three phase, 240 Volt (Ph), 4 wire, 50 Hz, AC Energy meter of accuracy: class-I with LCD display (L&T/ABB/SCHNEIDER):		
	a) 5-10 Amp (CT op base)	Each	3669.00
	b) 5-20 Amp (Dir Base)	Each	3075.00
	c) 10-40 Amp (Dir Base)	Each	3165.00
	d) 10-60 Amp (Dir Base)	Each	4008.00
	e) 50-100 Amp (Dir Base)	Each	5811.00
9	Supply & delivery of the following Single Function Meter with I/P-50-550VAC(P-P), Aux Sup-80-300 VAC, CT Secondary-1A/5A with inbuilt Selector Switch for 3-Ph, CT/PT programmable (L&T/ABB/SCHNEIDER):		
	a) 1 Ph LED Ammeter, (Class-1)	Each	883.00
	b) 1 Ph LED Voltmeter, (Class-1)	Each	883.00
	c) 3 Ph LED Voltmeter, (Class-1)	Each	1279.00
	d) 3 Ph LED Ammeter, (Class-1)	Each	1279.00
	e) LED Frequency Meter (Class-0.2)	Each	883.00
	f) 1 Ph LED Ammeter, (Class-0.5)	Each	1192.00
	g) 1 Ph LED Voltmeter, (Class-0.5)	Each	1192.00
	h) 3 Ph LED Voltmeter, (Class-0.5)	Each	1547.00
	i) 3 Ph LED Ammeter, (Class-0.5)	Each	1547.00
10	Supply & delivery of the following Current Transformer (Make: KAPPA/AE): Ratio VA Accuracy Class		
	a) 50/5A 5 5	Each	583.00



Serial Number	Description of Items	Unit	Rate (without GST & Cess) (in Rs.)
	b) 100/5A      5                      1	Each	604.00
	c) 150/5A      5                      1	Each	360.00
	d) 300/5A      15                     1	Each	670.00
	e) 400/5A      15                     1	Each	548.00
	f) 500/5A      15                     1	Each	528.00
	g) 1000/5A     15                     1	Each	558.00
11	Supplying of Bakelite Sheet		
	a) 3 mm thick	per sq. inch	1.58.00
12	Supply & delivery of 230 V, 50Hz, AC, 400 W, Metal Lamp,	Each	856.00
13	Supply & delivery of ballast for 230 V, 50Hz, AC, 250/400 W lamp,	Each	985.00
14	Supply & delivery of 415 V, 50 Hz, 3 Ph.AC Fully Automatic Star Delta Starter of Continuous duty in sheet steel enclosure of the following capacity (make:L&T/ABB/SCHNEIDER):		
	a) 12.5 HP ( with Relay of Max Range in Amp 9-14)	Each	7124.00
	b) 25 HP ( with Relay of Max Range in Amp 13-21)	Each	15140.00
	c) 30 HP ( with Relay of Max Range in Amp 20-32)	Each	11588.00
	d) 50 HP ( with Relay of Max Range in Amp 28-42)	Each	39981.00
	e) 75 HP ( with Relay of Max Range in Amp 45-75)	Each	68516.00
15	Supply & delivery of the following 50 Hz, AC, Direct on Line Starter of continuous duty in sheet steel enclosure (make L&T/ABB/SCHNEIDER):		
	a) 2 HP Single Phase (Max. Relay range 10.5-17.5 Amp)	Each	903.00
	b) 7.5 HP Three Phase (Max. Relay range 20-32 Amp)	Each	2253.00
	c) 10 HP Three Phase (Max. Relay range 15-25 Amp)	Each	3399.00
	d) 15 HP Three Phase (Max. Relay range 24-38 Amp)	Each	4516.00
	e) 20 HP Three Phase (Max. Relay range 20-33 Amp)	Each	7890.00
	f) 30 HP Three Phase (Max. Relay range 30-50 Amp)	Each	13496.00
16	Supply & delivery of 415V, 50 Hz, 50KA Manually Drawout type, 3-pole following Air Circuit Breaker (Thermal Magnetic/ Microprocessor) Capacity (make L&T/ABB/SCHNEIDER):		
	a) 400 Amps (thermal magnetic release)	Each	62346.00
	b) 630 Amps (thermal magnetic release)	Each	62894.00
	c) 800 Amps (Microprocessor based)	Each	136332.00
	d) 1000 Amps (Microprocessor based)	Each	142542.00
	e) 1250 Amps (Microprocessor based)	Each	158626.00
	f) 1600 Amps (Microprocessor based)	Each	180747.00
	g) 2000 Amps (Microprocessor based)	Each	219308.00

## Schedule of Rates

Serial Number	Description of Items	Unit	Rate (without GST & Cess) (in Rs.)
17	Supply & delivery of 415V,50 Hz, 50/60 KA Manually Drawout type, 4-pole following Microprocessor based Air Circuit Breaker (Thermal Magnetic DN1) Capacity (make L&T/ABB/SCHNEIDER):		
	a) 630 Amps (50 KA)	Each	171280.00
	b) 800 Amps (50 KA)	Each	171280.00
	c) 1000 Amps (50 KA)	Each	179256.00
	d) 1250 Amps (50 KA)	Each	198495.00
	e) 1600 Amps (50 KA)	Each	220465.00
	f) 2000 Amps (50 KA)	Each	269822.00
18	Supply and fixing of 240/230 volt, 50 Hz, T.P., power contactor (Make: L & T/ABB/Schneider/Simence/ GE) having contact block of the following range.		
	a) 9-25Amp, 1NO/1NC	Each	776.00
	b) 12-30Amp, 1NO/1NC	Each	898.00
	c) 18-30Amp, 1NO/1NC	Each	1040.00
	d) 22-32Amp, 1NO/1NC	Each	1218.00
	e) 25-45 Amp	Each	1253.00
	f) 32-55Amp	Each	2740.00
	g) 50-85Amp	Each	5556.00
	h) 70-100Amp	Each	7469.00
	i) 95-160Amp, 2NO + 2NC	Each	12897.00
	j) 185-250Amp, 2NO + 2NC	Each	24674.00
19	Supply & fixing of 415/440 Volt, HRC fuse (Make: L&T/ Havels/CGL/GE).		
	a) for 2-40Amp	Each	101.00
	b) for 50- 63 Amp	Each	239.00
	c) for 125 Amp	Each	396.00
	d) for 200 Amp	Each	578.00
20	e) for 250 Amp	Each	695.00
	a) Supply and fixing of analog Ammeter ranging 0-100Amps having C.R ratio of 100/5A, 144 mm sq size (make :AE/KAPPA/IMP).	Each	1048.00
21	b) Supply and fixing of analog Ammeter ranging 0-15 Amps having 144 mm sq size (make : AE/KAPPA/IMP).	Each	761.00
	Supply and fixing of analog voltmeter ranging from 0-500 V of 144 mm sq size (make :AE/KAPPA/IMP).	Each	1097.00

Serial Number	Description of Items	Unit	Rate (without GST & Cess) (in Rs.)
22	a) Supply & fixing of 230/240V, LED indicating lamp (make :AE/KAPPA/IMP) Blue/ white color.	Each	319.00
	b) Supply & fixing of 230/240V, LED indicating lamp (make :AE/KAPPA/IMP) other than Blue/ white color.	Each	266.00
23	a) Supply & fixing of control switch of 25A, D.P., 415 V of ON/OFF of type (make :Siemens/ABB/L&T/Schneider).	Each	864.00
24	Supply and Fixing of fuse unit complete with base and bridge on existing Board and necessary connection, for the following range.		
	a) 15 Amp./16 Amp., 240 V	Each	66.00
	b) 32 Amp., 240 V	Each	93.00
	c) 32 Amp. ; 415 V	Each	147.00
	d) 60 Amp. / 63 Amp., 415 V	Each	205.00
	e) 100 Amp., 415 V	Each	380.00
	f) 200 Amp., 415 V	Each	947.00
	g) 300 Amp., 415 V	Each	1352.00
25	Supply and fixing of tough "V" belts (Make: FENNER/POWER BOOM / V guard/Benq/ECODRIVE) of the following size:		
	a) B47	Each	657.00
	b) B48	Each	702.00
	c) B55	Each	748.00
	d) B58	Each	798.00
	e) B91	Each	838.00
	f) B92	Each	848.00
	g) B94	Each	869.00
	h) B98	Each	900.00
	i) C-98	Each	1222.00
	j) C-144	Each	1677.00
26	Supply and delivery of the following bearing (Make: SKF):		
	i) 22312E/C3	Each	12710.00
	ii) 6324/C3	Each	33927.00
	iii) NU226C3	Each	32980.00
	iv) NU221C3	Each	29817.00
	v) 6221C3	Each	9961.00
	vi) 6308	Each	713.00
	vii) 6406	Each	2002.00
	viii) 32210	Each	914.00
	ix) 31309	Each	1250.00
	x) 30309D	Each	1184.00
	xi) 6580	Each	6400.00

## Schedule of Rates

Serial Number	Description of Items	Unit	Rate (without GST & Cess) (in Rs.)
	xii) 7322BECBM	Each	64156.00
	xiii) NU322ECM	Each	22992.00
	xiv) NU224ECJ/C3	Each	26512.00
	xv) 6230	Each	33230.00
	xvi) NU230ECM	Each	61566.00
	xvii) NU230ECJ	Each	53314.00
	xviii) 6535	Each	6400.00
<b>27</b>	Supply and fixing the 3way C.I "V" grooved pulley with complete mechanism key way suitable to EN-24, 60 mm dia of shaft end.		
	a) Motor Driving	Each	2903.00
	b) Blower Driving	Each	5287.00
<b>28</b>	Supply and delivery of the following bearing ( SKF make).		
	a) 6312-2RS1/C3	Each	2360.00
	b) 6310-2RS1/C3	Each	1499.00
	c) 6309-2RS1/C3	Each	1492.00
	d) 6208-2Z	Each	744.00
	e) 6205-2Z	Each	520.00
	f) 6312-2RS1/C3	Each	2141.00
<b>29</b>	Supply, and fixing of HT insulation rubber Mat of the following sizes :-		
	a) 2.0 mm thick (upto 11 KV)	Sq.Mt	2170.00
	b) 2.5 mm thick (upto 11 KV)	Sq.Mt	2603.00
	c) 6.0 mm thick (upto 11 KV)	Sq.Mt	4318.00
<b>30</b>	Supply and delivery of Switch disconnection fuse unit in open execution(Make: L&T/Havels/CGL/GE) of the following current rating:		
	a) 32A, 2 pole	Each	1537.00
	b) 32A, TPN	Each	1766.00
	c) 63A, TPN	Each	2517.00
	d) 100A, TPN	Each	5023.00
	e) 125A, TPN	Each	6596.00
	f) 160A, TPN	Each	7174.00
	g) 200A, TPN	Each	9021.00
	h) 250A, TPN	Each	11325.00
	i) 315A, TPN	Each	14014.00
<b>31</b>	Supply and delivery of Electronic Timer suitable for 240/ 360/415V, 50 Hz(Make: L&T/ABB/Schneider/Simence/ GE/Minilic) of the following time (Second) range:		

Serial Number	Description of Items	Unit	Rate (without GST & Cess) (in Rs.)
	a) 3.0 to 30.0		1395.00
	b) 12.0 to 120.0		1395.00
32	Supply and delivery of Single Phase preventer Relay suitable for 415V, 6 wire, upto 20HP motor (Make: L & T/ABB/Schneider/ Simence/ Minilic/ GE).		1243.00
33	Supply and delivery of Thermal overload relays (Make: L & T/ABB/Schneider/Simence/ GE/Minilec) of the following range:		
	a) 0.2-0.33/ 0.3-0,5/ 0.45-0.75, MN2	Each	1248.00
	b) 0.9-1.5/1.4-2.3/2-3.3/3-5/6-10, MN2	Each	1258.00
	c) 9-15, MN2	Each	1289.00
	d) 14-23, MN2	Each	1416.00
	e) 20-33, MN2	Each	2050.00
	f) 24-40, MN2	Each	2207.00
	g) 9-15, MN5	Each	2547.00
	h) 14-23, MN5	Each	2547.00
	i) 20-33, MN5	Each	2567.00
	j) 30-50, MN5	Each	2846.00
	k) 36-60, MN5	Each	3308.00
	l) 45-75, MN5	Each	3552.00
	m) 66-110, MN5	Each	4089.00
	n) 28-46.5, MN12	Each	6302.00
	o) 42-69, MN12	Each	6302.00
	p) 60-100, MN12	Each	6302.00
	q) 90-150, MN12	Each	6302.00
	r) 135-225, MN12	Each	7732.00
	s) 180-300, MN12	Each	8214.00
	t) 270-450, MN12	Each	9660.00
34	Supply and delivery of Front mounted add-on auxiliary contractor block(Make: L & T/ABB/Schneider/Simence/ GE) of the following types:		
	a) 9 to 80 Amp, 2N0 + 2NC	Each	457.00
	b) 9 to 80 Amp, 1no + 1NC	Each	304.00
35	Supply and delivery of spare contract coils (Make: L&T/ABB/Schneider/Simence/GE) for the following range:		
	a) 9-25Amp.	Each	371.00
	b) 12-30Amp	Each	371.00
	c) 18-30Amp	Each	371.00
	d) 22-32Amp	Each	371.00

## Schedule of Rates

Serial Number	Description of Items	Unit	Rate (without GST & Cess) (in Rs.)
	e) 25-45 Amp	Each	371.00
	f) 32-55Amp	Each	371.00
	g) 50-85Amp	Each	371.00
	h) 70-100Amp	Each	1172.00
	i) 95-160Amp	Each	1172.00
	j) 185-250Amp	Each	1172.00
	k) 225-300Amp	Each	1757.00
36	Supply and delivery of Cotton Waste (White Fine Quality)	Kg	72.00
37	Supply and delivery of Neoprene Rubber Sheet- 5mm thick	Kg	715.00
38	Supply and delivery of PTFE Based Soft Spl Yarn Packing Impregnated with Polymers (Style-374), Thickness- 12.5mm to 20.0mm, Make-Champion	Kg	2425.00
39	Supply and delivery of PTFE Based Soft Spl Yarn Packing Impregnated with Polymers (Style-374), Thickness- 21.0 mm to 25.0mm, Make- Champion	Kg	2300.00
40	Supply and delivery of PTFE Based Soft Spl Yarn Packing Impregnated with Polymers (Style-374), Thickness- 10.0 mm to 11.0mm, Make- Champion	Kg	2450.00
41	Supply and delivery of PTFE Based Soft Spl Yarn Packing Impregnated with Polymers (Style-374), Thickness- 8.0mm, Make- Champion	Kg	2475.00
42	Supply and delivery of Cotton Impregnated with lubricant-Hydraulic Gland Packing (Style-376), Thickness- 13 to 25mm, Make- Champion	Kg	552.00
43	Supply and delivery of Cotton Impregnated with lubricant-Hydraulic Gland Packing (Style-376), Thickness- 12.5mm, Coil Length-3 M, Make- Champion	Coil	550.00
44	Supply and delivery of Cotton Impregnated with lubricant-Hydraulic Gland Packing (Style-376), Thickness- 10.0 to 11.0mm, Coil Length-6 M, Make- Champion	Coil	575.00
45	Supply and delivery of Cotton Impregnated with lubricant-Hydraulic Gland Packing (Style-376), Thickness- 8.0mm, Coil Length-6 M, Make- Champion	Coil	600.00
46	Supply and delivery of PTFE Graphite Based White Dry Plaited (Square) Packings, Style-1000(S), Thick ness- 26.0mm & above, Make- Champion	Kg	680.00
47	Supply and delivery of PTFE Graphite Based White Dry Plaited (Square) Packings, Style-1000(S), Thick ness- 12.5 to 25.0mm, Make- Champion	Kg	672.00
48	Supply and delivery of PTFE Graphite Based White Dry Plaited (Square) Packings, Style-1000(S),Thick ness- 10.0 & 11.0mm, Make- Champion	Kg	672.00

Serial Number	Description of Items	Unit	Rate (without GST & Cess) (in Rs.)
49	Supply and delivery of Supply and delivery of PTFE Graphite Based White Dry Plaited (Square) Packings, Style-1000(S), Thick ness- 8.0mm, Make- Champion	Kg	916.00
50	Supply and delivery of MCCBs with thermal magnetic release breaking capacity		
	a) Thermal release rang 125-160A, Breaking capacity Icu at 415V AC,50Hz, 50KA4pole	Each	13430.00
	b) Thermal release rang 200-250A, Breaking capacity Icu at 415V AC,50Hz, 50KA,4 pole	Each	19914.00
	c) Thermal release rang 320-400A, Breaking capacity Icu at 415V AC,50Hz, 50KA, 4 pole	Each	24031.00
51	Supply and delivery of direct rotary handel of MCCBs (Make: L & T/ABB/ Schneider/Simence/ GE)		
	a) Direct rotary handle 16-100A, 415V	Each	672.00
	b) Direct rotary handle 100-160A, 415V	Each	703.00
	c) Direct rotary handle 200-250A, 415V	Each	730.00
	d) Direct rotary handle 250-400A, 415V	Each	1129.00
52	Supply and delivery of extended rotary handel of MCCBs (Make: L & T/ABB/ Schneider/Simence/ GE)		
	a) Extended rotary handle 16-100A, 415V	Each	1008.00
	b) Extended rotary handle 100-160A, 415V	Each	1015.00
	c) Extended rotary handle 200-250A, 415V	Each	1148.00
	d) Extended rotary handle 250-400A, 415V	Each	1875.00
53	Supply and delivery of spreader Terminal of MCCBs (Make: L & T/ABB/ Schneider/Simence/ GE)		
	a) 100A, 3 pole	set	172.00
	b) 125A, 3 pole	set	254.00
	c) 250A, 3 pole	set	930.00
	d) 400A, 3 pole	set	1601.00
54	Supply and delivery of Modular Push button actuators (with plastic front ring), Opaque actuator (with holder for contact block) (Make: L & T/ABB/ Schneider/Simence/ GE)		
	a) Normal, colour: Red, green, blue, white, yellow, black	Each	70.00
	b) Rised, colour: Red, green, blue, white, yellow, black	Each	80.00
55	Supply and delivery Modular Push button actuators (with plastic front ring),Illuminated actuator (with holder for contact block) (Make: L & T/ABB/ Schneider/Simence/ GE)		
	a) Normal, colour: Red, green, blue, Amber white, yellow, clear	Each	90.00
	b) Rised, colour: Red,green,blue, Amber, white, yellow, clear	Each	95.00

## Schedule of Rates

Serial Number	Description of Items	Unit	Rate (without GST & Cess) (in Rs.)
56	Supply and delivery of Mushroom Actuators (40 mm ø) push to trip, key to release(with plastic front ring) for Emergency Stop Specifications (Make: L&T/ABB/ Schneider/Simence/ GE)	each	1070.00
57	Supply and delivery of Ultra Heavy Duty Capacitors Cylindrical Series 440V (Make: L & T/ABB/ Schneider/Simence/ GE)		
	a) 5 to 15 KVAR	per KVAR	415.00
	b) 20 to 25 KVAR	per KVAR	408.00
58	Supply and delivery of Ultra Heavy Duty Capacitors Box Series 440V (Make: L & T/ABB/ Schneider/Simence/ GE)		
	a) 5 to 15 KVAR	per KVAR	490.00
	b) 20 to 50KVAR	per KVAR	480.00
59	Supply and delivery Modular of and expandable steps, Large Backlit LCD display with user-friendly interface, CT secondary-1A / 5 A Site selectable Measurement of individual Current and Voltage harmonic (THD) up to 15th Order, Capacitor failure indication, 5 Step APFC Relay (Make: L & T/ABB/ Schneider/Simence/ GE).	Each	7734.00
60	Supply and delivery of Modular and expandable steps, Large Backlit LCD display with user-friendly interface, CT secondary-1A / 5 A Site selectable Measurement of individual Current and Voltage harmonic (THD) up to 15th Order,Capacitor failure indication, 3 Step APFC Relay + 3 Step Plug-in module APFC Relay. (Make: L & T/ABB/ Schneider/Simence/ GE)	Each	8281.00
61	Supply and delivery Modular and expandable steps, Large Backlit LCD display with user-friendly interface, CT secondary-1A / 5 A Site selectable Measurement of individual Current and Voltage harmonic (THD) up to 15th Order,Capacitor failure indication, 5 Step APFC Relay + 3 Step Plug-in module APFC Relay (Make: L & T/ABB/ Schneider/Simence/ GE)	Each	9141.00
62	Supply and delivery of 3 steps Optional Plug-in Modules 3 relays NO (Make: L & T/ABB/ Schneider/Simence/ GE)	Each	1406.00
63	Supply and delivery of phase failure relay (auto reset, 40Volts, unbalance 1co.contact VSPD1 ( Make:minilec)	Each	570.00
67	Supply and delivery of phase failure relay with fixed under & over voltage setting, 10% unbalance D1HLS1 (Make:minilec)	Each	1250.00
68	Supply and delivery of single phase preventor (auto reset, 40 volts, unbalance) VSP 2 ( Make:minilec)	Each	600.00



Serial Number	Description of Items	Unit	Rate (without GST & Cess) (in Rs.)
69	Supply and delivery of phase failure relay with under & over voltage setting (variable) manual reset 40V unbalance HLC D2 ( Make:minilec)	Each	1400.00
70	Supply and delivery of Ceiling fan 48" Sweep		
	a) Crompton Greaves make	Each	2283.00
	b) Orient Make	Each	2053.00
71	Supply and delivery of Wall fan 16" Sweep metal blade	Each	
	a) Crompton Greaves make	Each	2946.00
	b) Orient Make	Each	2269.00
72	Supply & fixing of E.I. Danger board on door/wall/fencing	Each	97.00
73	Supply & Providing 12 KV grage insulated rubber mat	Each	1440.00
74	Supply and delivery of 1200 mm sweep, 1 phase, 60/70 watt, 5 star and having 300 mm down rod, 1.1mm thick alluminium bled, conforming IS 374, 2mm shank thickness ceiling fan of following make.		
	b) Havells/Crompton Greaves Make (60 watt):	Each	2430.00
	c) Orient/Nirmal Make (70 watt):	Each	2409.00
75	Supply and delivery of 406.4 mm sweep, 1 phase, 60/70 watt, 5 star, 1.1mm thick alluminium bled, conforming IS 374, wall fan.	Each	
	a) Crompton Greaves make (high speed)	Each	2236.00
	b) Orient Make (high speed)	Each	2265.00
76	B) Supply and delivery of 600 mm sweep, 1 or 3 phase, 137 watt, NABL and having 900 mm stand rod, embedded regulator, 3 no 1.1mm thick alluminium bled, having minimum 65 Cu-m air flow Pedesta fan of Orient/ Crompton make.	Each	3530.00
77	Supply Delivery and installation of ABC Powder type fire extinguishers (stored pressure) HSN code-84241000 conforming to IS:15683 and complete in all respect as per direction of EIC		
	A) 01 Kg with ISI marked Mono Ammonium Phosphate base ABC power conforming to IS:14609 and pressurized with nitrogen gas. Suitable for operating between (-)30°C to (+)55°C. Fire rating -1A & 8B	Each	1579.00
	B) 02 Kg with ISI marked Mono Ammonium Phosphate base ABC power conforming to IS:14609 and pressurized with nitrogen gas. Suitable for operating between (-)30°C to (+)55°C. Fire rating -1A & 8B	Each	2255.00
	C) 04 Kg with ISI marked Mono Ammonium Phosphate base ABC power conforming to IS:14609 and pressurized with nitrogen gas. Suitable for operating between (-)30°C to (+)55°C. Fire rating -1A & 13B	Each	3157.00

## Schedule of Rates

Serial Number	Description of Items	Unit	Rate (without GST & Cess) (in Rs.)
	D) 06 Kg with ISI marked Mono Ammonium Phosphate base ABC power conforming to IS:14609 and pressurized with nitrogen gas. Suitable for operating between (-)30°C to (+)55°C. Fire rating -2A & 21B	Each	3721.00
	E) 09 Kg with ISI marked Mono Ammonium Phosphate base ABC power conforming to IS:14609 and pressurized with nitrogen gas. Suitable for operating between (-)30°C to (+)55°C. Fire rating -3A & 34B	Each	5074.00
78	Supply, Delivery and installation of Co <sub>2</sub> type fire extinguishers: HSN code-84241000		
	A) 02 Kg capacity with ISI marked Co <sub>2</sub> type fire extinguisher squeeze grip type conforming to IS:15683:2006 made from seamless cylinder conforming to IS:7285 duly approved by Chief controller of explosive, Nagpur, fitted with ISI marked controller of explosive, Nagpur, fitted with ISI marked controlled valve conforming to IS:3224, discharge adopter and horn complete with initial gas charged with carrying handle and wall mounting bracket suitable for operating between (-)30°C to (+)55°C. Fire rating -8B.	Each	6540.00
	B) Same as above but 3 Kg .capacity .fire rating class-13B	Each	7893.00
	C) 4.5 Kg capacity with ISI marked Co <sub>2</sub> type fire extinguisher squeeze grip type conforming to IS:15683:2006 made from seamless cylinder conforming to IS:7285 duly approved by Chief controller of explosive, Nagpur, fitted with ISI marked controller of explosive, Nagpur, fitted with ISI marked controlled valve conforming to IS:3224, high pressure 1 mtr. long discharge hose and horn complete with initial gas charged with carrying handle and wall mounting bracket suitable for operating between (-)30°C to (+)55°C. Fire rating -13B.	Each	9020.00
	D) 6.5 Kg capacity with ISI marked Co <sub>2</sub> type fire extinguisher squeeze grip type conforming to IS:15683:2006 made from seamless cylinder conforming to IS:7285 duly approved by Chief controller of explosive, Nagpur, fitted with ISI marked controller of explosive, Nagpur, fitted with ISI marked controlled valve conforming to IS:3224, high pressure 1 mtr. long discharge hose and horn complete with initial gas charged mounted on trolley wheels.	Each	12177.00
	E) Same as above but 9 Kg. capacity mounted on trolley wheels	Each	14432.00
	F) Same as above but 22.5 Kg. capacity with 5 mtrs long discharge hose and horn mounted on trolley wheels complete in all respect as per direction of EIC	Each	29845.00

Serial Number	Description of Items	Unit	Rate (without GST & Cess) (in Rs.)
79	Supply, Delivery and installation of Powder type fire extinguishers (Cartridge type): HSN code-84241000.		
	A) ISI marked Powder type fire extinguisher for class 'B' & 'C' fire 4 Kg. capacity fitted with forged brass squeeze lever discharge valve conforming to IS:15683:2006 complete with initial refill consisting of ISI marked Co <sub>2</sub> gas cartridge of 120 grams capacity conforming to IS:4947 and ISI marked sodium base dry chemical powder conforming to IS:4308, suitable for operating between (-) 30°C to (+)55°C. Fire rating -13B.	Each	5074.00
	B) Same as above but 6 Kg .capacity .fire rating class-21B	Each	5413.00
	C) Same as above but 9 Kg. capacity with ISI marked Co <sub>2</sub> gas cartridge of 200 grams capacity, fire rating class-34B	Each	6427.00
	D) ISI marked Powder type fire Engine 25 Kg. capacity conforming to IS:10658 fitted with gun metal cap, high pressure discharge hose with nozzle, mounted on trolley wheels complete with initial refill consisting of Co <sub>2</sub> cylinder of 1 Kg.capacity with ISI marked controlled valve conforming to IS:3224 and ISI marked sodium base dry chemical powder conforming to IS:4308.	Each	16462.00
	E) ISI marked Powder type fire Engine 50 Kg. capacity conforming to IS:10658 fitted with gun metal cap, high pressure discharge hose with nozzle, mounted on trolley wheels complete with initial refill consisting of Co <sub>2</sub> cylinder of 2 Kg.capacity with ISI marked controlled valve conforming to IS:3224 and ISI marked sodium base dry chemical powder conforming to IS:4308.	Each	26496.00
	F) ISI marked Powder type fire Engine 75 Kg. capacity conforming to IS:10658 fitted with gun metal cap, high pressure discharge hose with nozzle, mounted on trolley wheels complete with initial refill consisting of Co <sub>2</sub> cylinder of 2 Kg.capacity with ISI marked controlled valve conforming to IS:3224 and ISI marked sodium base dry chemical powder conforming to IS:4308.	Each	31007.00
80	Foam type Fire Extinguishers HSN Code:84241000		
	A) ISI marked Foam Stored Pressure type fire Extinguisher 9 ltrs capacity consisting of welded cylinder, squeeze lever discharge valve fitted with pressure indicating gauge with internal discharge tube, discharge nozzle, suspension bracket, conforming to IS:15683 duly charged with ISI marked Aqueous film forming foam conforming to IS:4989 and pressurized with nitrogen gas. Suitable for operating between (+) 5°C to (+)55°C. Fire rating -3A & 34B.	Each	3383.00

## Schedule of Rates

Serial Number	Description of Items	Unit	Rate (without GST & Cess) (in Rs.)
	B) ISI marked Foam (AFFF) type fire Extinguisher 9 ltrs capacity Fitted with forged brass, squeeze lever discharge valve, conforming to IS:15683:2006 complete with initial refill consisting of ISI marked Co2 gas cartridge of 60 grams capacity conforming to IS:4947 and ISI Marked AFFF conforming to IS:4989, Suitable for operating between (+) 5°C to (+)55°C. Fire rating -3A & 34B.	Each	5638.00
	C) ISI marked Foam (AFFF) type fire Extinguisher 50 ltrs capacity Fitted with forged brass, squeeze lever discharge valve, conforming to IS:15683:2006 complete with initial refill consisting of ISI marked Co2 gas cartridge of 300 grams capacity conforming to IS:4947 and ISI Marked AFFF conforming to IS:4989, Mounted on trolley wheels conforming to IS:13386.	Each	14658.00
	D) ISI marked Foam (AFFF) type fire Extinguisher 135/150 ltrs capacity Fitted with forged brass, squeeze lever discharge valve, conforming to IS:15683:2006 complete with initial refill consisting of ISI marked Co2 gas cartridge of 300 grams capacity conforming to IS:4947 and ISI Marked AFFF conforming to IS:4989, Mounted on trolley wheels conforming to IS:14951.	Each	45101.00
81	Water type fire extinguishers: HSN Code:84241000		
	A) ISI marked water stored Pressure type fire Extinguisher 9 ltrs capacity consisting of welded cylinder, squeeze lever discharge valve fitted with pressure indicating gauge with internal discharge tube, discharge nozzle, suspension bracket, conforming to IS:15683:2006 duly charged with purged water and pressurized with nitrogen gas. Suitable for operating between (+) 5°C to (+)55°C. Fire rating -3A.	Each	3271.00
	B) ISI marked water stored Pressure type fire Extinguisher 9 ltrs capacity Fitted with forged brass, squeeze lever discharge valve, conforming to IS:15683:2006 complete with initial refill consisting of ISI marked Co2 gas cartridge of 60 grams capacity conforming to IS:4947 Suitable for operating between (+) 5°C to (+)55°C. Fire rating -3A.	Each	5525.00
	C) ISI marked water stored Pressure type fire Extinguisher 50 ltrs capacity Fitted with gun metal cap, discharge hose, nozzle conforming to IS:13385 complete with initial refill consisting of ISI marked Co2 gas cartridge of 300 grams capacity conforming to IS:4947 mounted on trolley wheels.	Each	13531.00
	D) -Do- but 135/150 ltrs.capacity Mounted on trolley wheels conforming to IS:13385.	Each	41717.00

Serial Number	Description of Items	Unit	Rate (without GST & Cess) (in Rs.)
82	Clean agent HFC-236 type fire Extinguishers: HSN Code-84241000		
	A) ISI marked Clean agent HFC-236 type fire Extinguisher 2 Kg capacity consisting of welded cylinder, squeeze lever discharge valve fitted with pressure indicating gauge with internal discharge tube, discharge nozzle, suspension bracket, conforming to IS:15683 duly charged and pressurized with nitrogen gas. Suitable for operating between (+) 5°C to (+)55°C. Fire rating -8B.	Each	11275.00
	B) -Do- But 4 Kg capacity with discharge hose and nozzle, Fire rating class-1A&13B	Each	22550.00
	C) -Do- But 6 Kg capacity with discharge hose and nozzle, Fire rating class-2A&21B	Each	29315.00
83	Automatic Modular Clean agent HFC-236 type fire Extinguishers: HSN Code-84241000		
	A) ISI marked Automatic Modular Clean agent HFC-236 type fire Extinguisher 2 Kg capacity made of M.S. body treated against corrosion fitted with heat sensitive glass bulb sprinkler heads (68°C/79°C), pressure indicator, arrangement for fixing to the ceiling and pressurized with nitrogen gas to 15Kg./cm <sup>2</sup> . Suitable for covering 200 Cu.Ft) volume.	Each	13531.00
	B) -Do- But 5 Kg capacity Suitable for covering 13.25 cu. M (465 Cu.Ft) volume.	Each	29315.00
	C) -Do- But 10 Kg capacity Suitable for covering 26.5 cu.m (935 Cu.Ft) volume.	Each	54121.00
84	Automatic Modular ABC Powder type fire Extinguishers: HSN Code-84241000		
	A) ISI marked Automatic Modular ABC Powder type fire Extinguisher 2 Kg capacity made of M.S. body treated against corrosion fitted with heat sensitive glass bulb sprinkler heads (68°C/79°C), pressure indicator, arrangement for fixing to the ceiling and pressurized with nitrogen gas to 15Kg./cm <sup>2</sup> . Suitable for covering 1.5-2 m <sup>2</sup> and 3.5 m <sup>3</sup> volume.	Each	3383.00
	B) -Do- But 5 Kg capacity Suitable for covering 3.5-4 m <sup>2</sup> and 8 m <sup>3</sup> volume.	Each	6539.00
	C) -Do- But 10 Kg capacity Suitable for covering 7-8 m <sup>2</sup> and 15 m <sup>3</sup> volume.	Each	7441.00
85	Cleaning, Refilling, Hydro testing of Existing ABC type fire extinguisher of 6 K.G. capacity with change of damaged spares including removing from site & re-fixing after refilling.	Each	1,571.00



# **C-Series**

**(ANALYSIS)**

**UD & MA SCHEDULE**





## CABLE JOINTING &amp; END TERMINATION

Serial Number	Description of Items	Unit	Rate (without GST & Cess) (in Rs.)
1	Making Indoor type End termination Joint by providing all required terminal joints accessories {viz Heat Shrink Type End Termination Jointing Kits complete with all accessories for 3 core 6.6KV(UE)-11KV (E) XLPE Screened Cable, Aluminium Conductor} & man/equipments tools & tackles etc with the relevant Switch Gear inside the Pumping Station or Switch Room with care & caution including compliance of relevant safety norms & conforms to the relevant IS and complete in all respect as per direction of EIC.		
	3 core 6.6KV (UE)-11KV (E) XLPE Screened Cable, Aluminium Conductor of following Sizes		
	a) 400 Sq mm Indoor type Heat Shrinkable Joint (Rechem KIT No- EPKT 3131)	Each	20,471.00
	b) 240- 300 Sq mm Indoor type Heat Shrinkable Joint (Rechem KIT No- EPKT 3121)	Each	19,621.00
	c) 120-185 Sq mm Indoor type Heat Shrinkable Joint (Rechem KIT No- EPKT 3111)	Each	18,675.00
2	Making Straight through Joint by providing all required jointing accessories {viz-viz Heat Shrink Type End Termination Jointing Kits complete with all accessories for 3 core 6.6KV (UE)-11KV (E) XLPE Screened Cable, Aluminium Conductor} & man/equipments tools & tackles etc with care & caution including compliance of relevant safety norms & conforms to the relevant IS and complete in all respect as per direction of EIC.		
	<b>3 core 6.6KV (UE)-11KV (E) XLPE Screened Cable, Aluminium Conductor of following Sizes</b>		
	a) <b>240- 400 Sq mm Indoor type Heat Shrinkable Joint (Rechem KIT No- EPKJ 3118)</b>	Each	47,695.00
	b) <b>120-185 Sq mm Indoor type Heat Shrinkable Joint (Rechem KIT No- EPKJ 3117)</b>	Each	44,081.00
3	Supply & fixing of straight through joint box including ferule and other jointing materials, making joints and filling with compound suitable for the following aluminum conductor underground PVC insulated cable as required Cable size- for 3/3.5/4 core 10 Sq. mm. to 50 Sq. mm.	Each	1767.00



**D-Series**  
**(RATE)**  
**UD & MA SCHEDULE**



## MAINTENANCE AND MANAGEMENT OF INDOOR/OUTDOOR ELECTRICAL INSTALLATIONS

Serial Number	Description of Items	Unit	Rate (without GST & Cess) (in Rs.)
1	Inspection of Street Light Installation Every Day, including submission of record to the department, on the the next working day as per format, prescribed by the department as per direction of the EIC.	Per Point Per Day	1.00
2	Attending pillar box / switch operation including switching on & off manually as per direction of the EIC, per pillar box/switch room.	Per Point Per Day	12.00
3	Cleaning of perpex off luminaries : HPSV/HPMV/MH luminaries of any wattage as per direction of the EIC.	Per Point	18.00
4	Replacement of following item after listing including removing & Re-fixing of luninaries as required (Materials will be supplied departmentally): Incandescent/LED lamp BC/ES upto 500 watt/TL Starter/Tube light.	Per Point	13.00
5	Replacement of following item after listing including removing & Re-fixing of luninaries as required (Materials will be supplied departmentally) Sodium/Metal/MV/70 watt/150 watt/M.L./250watt/400watt/M.L.Lamp/Street light LED fittings.	Each	64.00
6	Acrylic bowl for HPMV/HPSV lamp fittings Condenser/Ignitor for HPSV/HPMV/MH Lamp.	Each	36.00
7	Hoisting fixing and commissioning of luminaries including making necessary connection and earthing attachment: HPMV/HPSV luminaries/LED fittings of any wattage.	Each	96.00
8	Removing of luminaries with lamp from the pole/column and keeping them ready for dispatch as per direction of EIC: HPMV/HPSV luminaries/MH/LED street light fittings.	Each	60.00



# **E-Series**

**(RATE)**

**UD & MA SCHEDULE**





## ELECTRIC CREMATORIUM FOR HUMAN BEING

Serial Number	Description of Items	Unit	Rate (without GST & CESS) (in Rs.)
1	<b>DISMANTLING:</b> Dismantling of all damage fire bricks from the furnace chamber such As 9 nos Roast Bricks. Ash collection bricks (M.K-16 to M.K-24) 9 Sets angle or shaped bricks M.K-88-18 nos. M.K-100-4nos., M.K-101-4 nos refractory / side bricks M.K-27-18nos. M.K-29-18 nos through clearing of as collection chamber, air ducts by removing the ash inside the furnished chamber for patch repairing purpose.	One item	2370.00
2	<b>REMOVING OF STACK:</b> Removing the broken bricks & all rubbishes to outside crematory/dumping ground incl. loading, unloading, stacking & cost for transportation during patch repairing purpose .	One item	4024.00
3	<b>PATCH WORK (RELINING):</b> Relining the refractory shaped bricks, tiles, Angles bricks etc with good quality fire clay mortar by skilled labor (specially for cremation furnace) neat finishing and fitting for easy movement of the charging trolley over the roast bricks as per the direction of E.I.C of the dept. washing of the of the entire chamber with Sodium Siliminate clay should be necessary.Roast bricks-9 nos, Ash bricks-(M.K-24)-9nos Angle bricks-M.K-88-18nos, M.K-100-4 nos, M.K-101-4 nos.Side bricks-M.K-27-18nos, M.K-29nos.	One item	6042.00
4	<b>PATCH WORK WITH BRICKS:</b>		
	a) Roast bricks	Each	1579.00
	b) Ash bricks (M.K.-16 to M.K.-24)	Set	6303.00
	c) Angle bricks M.K-88	Each	733.00
	d) Angle bricks M.K-100-4nos	Set	1015.00
	e) Angle bricks M.K—101-4nos	Set	1015.00
	f) Side bricks M.K-27	Each	203.00
	g) Side bricks M.K-29	Each	147.00
	h) Good quality fire clay mortar Washing of the entire chamber with Sodium Siliminate clay should be necessary.	per bag	197.00
5	<b>ALTER (WITH BRICKS M.K.92):</b> Construction of Alter in front of furnace chamber flash to furnace door inside with M.K –92 fire bricks with good quality fire clay mortar	Each	926.00
6	<b>ALTER(WITH BRICKS M.K.95) :</b> Re-lining charges with M.K-95 bricks.	Each	764.00

## Schedule of Rates

Serial Number	Description of Items	Unit	Rate (without GST & CESS) (in Rs.)
7	<b>BLANKET FOR FURNACE DOOR :</b> Construction of door blanket with 2 layers of ceramic blanket of density 96kg/cm <sup>3</sup> with 2 layers of ceramic blanket of density 128 kg/cm <sup>3</sup> and to be fitted in the spikes with S.S.pin so as the blanket does not come out.	One item	10498.00
8	<b>CONSTRUCTION OF DOOR BLANKET:</b> a) Supply, Fixing the S.S 304 spike from inside the furnace door each of 280mm dia for holding the ceramic blanket	Each	399.00
9	<b>FRONT COVER OF FURNACE DOOR:</b> Supplying and fixing the new cover made of from 3.15 mm (10 SWG) CRCA sheet over all dimension 2400 mm X 1200mm with top arched shape as per existing drill holes for fixing over the furnace door in two halves. L.H Side R.H Side	Each Each	7381.00 7381.00
10	<b>BACK COVER OF FURNACE DOOR:</b> Supplying and fixing the new cover made of from 3.15 mm (10 SWG) CRCA sheet over all dimension 2400 mm X 1200mm with top arched shape as per existing drill holes for fixing over the furnace door in two halves. L.H Side R.H Side	Each each	7520.00 7520.00
11	<b>BALL BEARING:</b> a) Supply and fixing the ball bearing (SKF make) of furnace door by opening Palmer Block including wearing tapered sleeve as existing size with locking nut. i) SKF make 1207EKTN9 ii) SKF make 1211EKTN9 iii) SKF make 1213EKTN9	Each Each Each	1833.00 2786.00 3749.00
12	<b>PALMER BLOCKS:</b> a) Supply and fixing the C.I Palmer Block of shaft size 62.5 mm dia.(SKF make)	One item	11122.00
13	<b>CLEANING AND REPAIRING OF FUEL DUCT PASSAGE:</b> a) Removing the complete damaged R.S bricks and R.S slab of the (U.G) duct passage of the furnace chamber and thorough cleaning of the duct passage upto the start of brick build chimney by removing ash/carbon particles and relining the same with R.S Slabs & R.S bricks after mending good damages in the duct passages with insulation brick and red brick (1:4) with all necessary cementing masonry work	One item	7632.00

Serial Number	Description of Items	Unit	Rate (without GST & CESS) (in Rs.)
	b) Supply & Fixing of R.S. slab after removing the same with necessary fire clay mortar.	Each	688.00
14	<b>HEATING ELEMENT:</b>		
	a) Supply and fixing the Heating element (Heatco make) of capacity 4.5 K.W to be working in supply voltage of 240 V 50 Hz made from 80/20 Nicrome wire of 8 SWG in coiled coil from welded S.S stud on both ends. The coil should be inserted into the groove of existing coil brick after proper cleaning and the S.S Studs housed into the ceramic caller tube wrapped. With asbestos rope for tight fitting and sealing as heat proof extended S.S stud to be connected brass/ copper connector with complete connection in all respect of existing system.	One item	20302.00
	b) Supplying and fixing the terminal connector having drill holes for inserting S.S stud of 8.5 mm dia and connection point of existing copper wires of overall dimension 80mm long x25mm square shape.	One item	376.00
15	<b>TEMPERATURE CONTROLLER:</b>		
	a) Supply and fixing the digital type temperature controller of range (0-1200) deg. C of overall dimension 92 sq mm dia x 105mm depth having (CR-A1) heat sensor and 1 no + 1 N.C change over contact to be actuated at crossed of desired temperature in deg.C complete power supply unit of 230V 50 Hz.		
	i) Blue Max make	Each	3461.00
	ii) Flame India make	Each	2232.00
16	<b>THERMOCOUPLE:</b>		
	a) Supply and fixing the thermocouple of heat sensing range 0-1200 deg. C having (Cr-A1) sensor house in S. Sd 304 casing of dimension 1200 mm long x 22 mm OD complete encased in to it and fitted terminal on other end for connection of compensating wire.		
	i) Heatco make	Each	4599.00
	ii) Temcon make	Each	2293.00
	iii) Blue Max make	Each	4543.00
	iv) Flame India make	Each	4543.00
17	<b>COMPENSATING WIRE:</b> Supply, laying drawing of 2 core 0.5 sq mm CR-A1 compensating wire for heat sensing from thermocouple to temperature controller covered with asbestos embedded tape (Flame India make)	R.M	89.00

## Schedule of Rates

Serial Number	Description of Items	Unit	Rate (without GST & CESS) (in Rs.)
18	<b>POWER CONTACTORS:</b>		
	a) Supply and fixing the power contactor T.P 70A, L & T make (ML-4) having 240V, 50Hz, coil incl. 2 NO + 2 NC Aux contact block.	Each	10724.00
	b) Supply and fixing the power contactor T.P 16A, L & T make having 240V, 50Hz, coil incl. 1NO+1NC aux contact block.	Each	1367.00
	c) Supply and fixing Bimetal O / L relay having range of (1.4 to 2.3) A, for 1.5kw fresh air blower motor.	Each	1199.00
19	<b>DOUBLE BALL BEARING FOR SN-E SHAFT OF I.D FAN (12000CU.M/HR):</b> Supply and fixing of the Roller bearing in the shaft of blower (SKF make 22312E/C3)	Each	12218.00
20	<b>PALMER BLOCK:</b>		
	a) Supply, fitting and fixing C.I palmer block for suitable to EN-24, 60 mm dia shaft including proper alignment and fixing in the pedestrian of the blower for free run of impeller.	Each	13018.00
21	<b>"V" GROOVED PULLEY (C.I):</b> Supply and fixing the 3way C.I "V" grooved pulley with complete mechanism key way suitable to EN-24, 50 mm dia of shaft end. a) blower driving (375 mm dia)	Each	5236.00
22	<b>IMPELLER (12000 CU M /HR CAPACITY):</b> Manufacture, Supply, Fitting and fixing S.S.-304 grade impeller of 635 mm dia. X 110 mm width in overall dimension. Welded with 12 nos. skewed fins/blade (size: 175mm x 100mm x 4mm thickness) at 30° Angle on the impeller centre point with Back plate and Front plate. Size of Back plate and front plate is (635mm dia. x 6mm thickness) respectively . After Fitting, Fixing of shaft with impeller dynamically balance for smooth air discharge capacity 12000 cu. m. /hr.	Each	42304.00
23	<b>EN-24 SHAFT OF IMPELLER (60 MM DIA, 1000 MM LONG):</b>		
	a) Supply and fixing with EN-24 shaft of 60 mm dia x 1000mm long complete machining in true length, both side steps down 50mm dia x 150mm long or 100mm long for impeller side and pulley side respectively incl. key slot on both ends having dimension 150mm x 10mm x 5mm for impeller side and 100mm x 10mm x5mm for pulley side on both ends of shaft is grinded and tapped 12mm dia. for lock washer to fitted of 100mm dia. and 8mm thickness and centrally drilled for 14mm dia.	Each	10576.00

Serial Number	Description of Items	Unit	Rate (without GST & CESS) (in Rs.)
24	<b>CASING OF BLOWER:</b> Supply and Fixing enclosure of 12000m <sup>3</sup> /hr. capacity I.D. fan made by 5 mm thickness M.S. Sheet (as per drg.) overall dimension 1050 mm circular body and depth of body 400 mm. Delivery side rectangular size (650mmx400mm) and trapizoid portion parallel length 800 mm, 200mm respectively, height of the trpezoid 650 mm suction side tapered ciircular shape having 500 mm to 380 mm and length 680 mm. Fitted with pedestral for Plamer block resting including supporting frame of the body incl. necessary fondation work.	Each	74025.00
25	<b>REPAIRING OF EN-24 SHAFT OF (60 MM DIA) OF I.D FAN:</b> Repairing the worn out portion of 60 mm dia shaft (EN-24) like bearing seat and key way by welding and complete machining as per I.D of bearing and C.I pulley.	One item	3945.00
26	Repairing the worn out damaged portion of M.S. body of enclosure of I.D. fan etc. including necessary cutting, welding etc. and after repairing the said portion to be painted.	One item	6703.00
27	Manufacture, supply and erection of M.S chassis made from 150mm x 75mm x 8 mm channel as per dimension of I.D fan and motor sets complete fabrication, welding ,grinding drill holes for fixing motor blower set as per direction of Engineer-In-Charge	One Item	24529.00
28	Supply, fitting & fixing M.S circular duct made of 5mm M.S plate, 450mm dia having both end circular flange welded 50mm width x 6mm thick with mounting drill holes 13mm dia drill holes incl. one coat primer and two coats synthetic enamel paints as per direction of Engineer-in-charge.	Per meter	15779.00
29	Supply, fixing of 3 pole power contractor, Havelles make as following rating: a) 12A, 1NO OR 1NC b) 18A, 1NO OR 1NC c) 25A, 1NO OR 1NC	Each Each Each	792.00 893.00 1100.00
30	Supply, fixing of 3 pole power contractor ML Type, L & T make as following rating: a) ML-1.5, 2NO + 2NC (25A) b) ML-2, 2NO + 2NC (32A)	Each Each	2496.00 4531.00
31	Supply, fixing of 3 pole power contractor MO Type, L & T make as following rating: a) MO-18, 1NO + 1NC (18A) b) MO-25, c) MO-32, d) MO-40,	Each Each Each Each	1409.00 1475.00 3043.00 4619.00

## Schedule of Rates

Serial Number	Description of Items	Unit	Rate (without GST & CESS) (in Rs.)
32	Supply, fixing of MO/MOC SPREADER LINK KIT, L & T make: MO9-45/MOC3-30	Each	344.00
33	Supply, fixing of single phase preventer, L & T make: SPPR-sz5(7wire), 380V	Each	614.00
34	Supply, and fixing of 1 HP self Priming pump: Make- KSB, Peribloc-1	Each	6377.00
35	Supply, and fixing of 2 HP Centrifugal Monoblock pump Make- KSB, AGRIBLOC 20-5050	Each	12803.00
36	Supply, and fixing of HT insulation rubber Mat of following sizes:- a) 2.0 mm thick (upto 11 KV) b) 2.5 mm thick (upto 22 KV) c) 6.0 mm thick (upto 33 KV)	Each Each Each	2204.00 2644.00 4386.00
37	Refixing of impeller of Blower after dynamic balancing in workshop as per IS rule after dismantling the same .	Each	8177.00
38	Supply and fixing of palmer Block (SNH520TS) for 40 HP I.D. Fan/Blower (specially for APC devices of Wooden Pyres)	Each	10281.00
39	Supply and fixing of Adapter Sleeve with oil groove(H320/PC) for 40 HP I.D. Fan/Blower (specially for APC devices of Wooden Pyres)	Each	2490.00
40	Supply and fixing of Locating Ring(FRB 12/180) for 40 HP I.D. Fan/Blower (specially for APC devices of Wooden Pyres)	Each	671.00
41	Supply and fixing of Adapter Sleeve with oil groove(H313/PC) for 25 HP I.D. Fan/Blower (specially for APC devices of Wooden Pyres)	Each	765.00
42	Supply, fitting & fixing M.S circular duct made of 5mm M.S plate, 600mm dia having both end circular flange welded 50mm width x 6mm thick with mounting drill holes 13mm dia drill holes incl. one coat primer and two coats synthetic enamel paints as per direction of Engineer-in-charge. (FOR WOODEN PYRES)	Each	20467.00
43	Supply, fitting & fixing M.S circular duct made of 3mm S.S.-304 plate, 600mm dia having both end circular flange welded 50mm width x 6mm thick with mounting drill holes 13mm dia drill holes incl. one coat primer and two coats synthetic enamel paints as per direction of Engineer-in-charge. (SPECIALLY FOR WOODEN PYRES)	Each	29770.00
44	Supply, fitting & fixing 1 Meter M.S circular duct made of 5mm M.S plate, 500mm dia having both end circular flange welded 50mm width x 6mm thick with mounting drill holes 13mm dia drill holes incl. one coat primer and two coats synthetic enamel paints as per direction of Engineer-in-charge.	per mtr.	16343.00
45	Supply and fixing the tough "V" belts of sizes(ECODRIVE make)-B94	Each	846.00
46	Supply and fixing the tough "V" belts of sizes(ECODRIVE make)-B98	Each	877.00

Serial Number	Description of Items	Unit	Rate (without GST & CESS) (in Rs.)
47	Supply and fixing the tough "V" belts of sizes(ECODRIVE make)-C-98	Each	1204.00
48	Supply and fixing the tough "V" belts of sizes(ECODRIVE make)-C-144	Each	1666.00
49	Dismantling the 12000 cu M/hr I.D. Fan/blower of 12000 cu M/hr capacity from its foundation by opening the foundation bolts/driving bolts and flexible compiling of inlet, outlet canvas duct for repairing purpose.	one item	2689.00
50	Re fixing /mounting the 12000 cu M/ hr I.D fan /blower over its foundation by Means of nuts, bolts, washers connecting the inlet and outlet canvas cloth duct & wearing the "V" belt complete alignment in respect to driving motor of 25H.P squirrel cage motor	one item	3357.00
51	Dismantling the 25 H.P (18.5 KW) squirrel cage motor from its foundation by Opening mounting bolts and disconnection of cables from terminal box and open The "V" belts for repairing purpose (in condition)	one item	2568.00
52	Re fixing the 25 H.P star/delta squirrel cage motor over its foundation by mean of mounting bolts & nuts, washer complete connection of existing led of cable at the terminal box and wear the "V" belts with proper alignment in respect to I.D. fan (12000 cu M/hr capacity) by adjusting the side rail for smooth running	one item	3153.00
53	Supply and fixing the S.S 304 plates 14 S.W.G.( 2 mm) thick 980mm x 225mm complete cutting and grinding	Each	3953.00
54	Supply and fixing the water injection nozzle in form of cork screw or like end auger of dimension 80 mm height x 25.4 mm dia hexagonal tapered having thread at one side with 4mm dia drill hole centrally in which water may be spared wildly spirally like fly wheel at a normal pressure of water complete machining and testing.	Each	1307.00
55	Supply and fixing the mess of main pipe and branch pipe of I.D 40 m.m. and 25.4 mm respectively to be welded horizontally 8 nos at both side of main pipe as per overall dimension inside of pre-color (1800 mm / 1200 mm) having tapped whole suitable to thread of S.S/Brass nozzle to be 24 nos in one stage of both side made from S.S 304 medium gauge pipe.	one item	12077.00
56	Supply and Fixing of 450 mm dia S.S.-304 Damper of 2mm thick plate with both end flanges	one item	23618.00
57	S/F 230V, LED indicating lamp, (Blue & White)	Each	339.00
58	S/F 230V, LED indicating lamp, (other colours)	Each	284.00
59	Supply & fixing 415V, HRC fuse (L&T make)- For 2-16 A	Each	100.00
60	Supply & fixing 415V, HRC fuse (L&T make)- For 63A	Each	283.00
61	Supply & fixing 415V, HRC fuse (L&T make)- For 100 A	Each	490.00





# **F-Series**

**(RATE)**

**UD & MA SCHEDULE**



## HIRING ITEMS

Serial Number	Description of Items	Unit	Rate (without GST & Cess) (in Rs.)
1	Hire charges for Supply and Fixing of temporary chain light arrangement with LED chain ( 50 number LED per set & approximate gap of six inch between two LED ) including necessary connection and maintain the same for: a) 1st Night b) Do – For subsequent night	Set	55.00
		Set	22.00
2	Hire charges for Supply and Fixing of temporary decorative LED Gate/ Motif/Board lighting arrangement with bamboo /wooden structure of different model as required and as per direction of E I C with all accessories and wiring with proper size PVC wires including mains, sub main, switches etc and maintaining the same for: a) 1 st night b) -Do - Subsequent night	Per sq Ft.	86.00
		Per Sq. Ft.	24.00
3	Hire charges for Supply and Fixing of metal halide flood light fittings for 400Watt metal halide lamp /200 Watt LED FLOOD light fittings with all accessories as required and wiring with proper size PVC wire including mains, sub main, switches ETC AND maintaining the same for: a) 1st night b) -Do-Subsequent night.	Each	418.00
		Each	154.00
4	Hiring charge of 1 no. 125KVA 3 Phase silent DG set including supply & fixing of 400 Amp 4 pole changeover switch and laying of required capacity and length of cable with connection as reqd. (on temporary basis) and engaged one generator operator round the clock to run the generator as and when required(Including Fuel).	day	6350.00



# **G-Series**

**(RATE)**

## **UD & MA SCHEDULE**



## High Mast for Illumination Systems

Serial Number	Description of Items	Unit	Rate (without GST & Cess) (in Rs.)
01.	Supply of 16 meter High mast lighting system with its accessories. Mast shaft shall be in two sections with steel material confirming to BSEN 10025 and material shall be high tensile steel, grade S355, hot dip galvanised confirming to BSEN ISO 1461 and suitable for wind velocity as per IS 875. It shall also include accessories for high mast including head frame, 2 continues steel wire rope 6 mm dia (7/19 construction), trailing cable, double drum winch, Galvanised Lantern carriage arrangement suitable for up to 9 luminaires symmetrically & its control gear (Make of Gear Box : New Allen Berry works / Chandra Gear / Elecon Engineering / Shanti Engineering) boxes and lightning finial. The mast shall have an integral powertool installed inside the base compartment for its operation along with Supply & Fixing of Cu Cable of Power Tool motor, Wiring for Luminaries, Anchor Plate, Foundation Bolt, Nut, Washer, Common Template all complete. Luminaire wiring materials not included in this item. (Make: Bajaj / Transrail / Valmond/ Utkarsh /Skipper)	Item	1,30,363.00
02.	Erection of high Mast (16 M) on RCC foundation with cement concrete considering actual SBC of soil, with the help of suitable modern engg. tools and Plants, wiring of luminaries with all wiring materials like PVC insulated flexible cable of suitable copper conductor core of 1.5 mm <sup>2</sup> lugs, up to 10 nos. 6A MCB along with construction of shallow foundation with cement concrete for high Mast considering the safe soil bearing capacity as per site condition, as per drawing and design of manufacturer of the mast. The soil test and submission of its report is within the scope of the work.	Item	62,317.00
03.	Supply of 12.0 / 12.50 meter High mast lighting system with its accessories. Mast shaft shall be in two sections with steel material confirming to BSEN 10025 and material shall be high tensile steel, grade S355, hot dip galvanised confirming to BSEN ISO 1461 and suitable for wind velocity as per IS 875. It shall also include accessories for high mast including head frame, 2 continues steel wire rope 6 mm dia (7/19 construction), trailing cable, double drum winch, Galvanised Lantern carriage arrangement suitable for up to 9 luminaires symmetrically & its control gear( Make of Gear Box : New Allen Berry works / Chandra Gear / Elecon Engineering / Shanti Engineering) boxes and lightning finial. The mast shall have an integral power tool installed inside the base compartment for its operation along with Supply & Fixing of Cu Cable of Power Tool motor, Wiring for Luminaries, Anchor Plate, Foundation Bolt, Nut, Washer, and common Template all complete. Luminaire wiring materials not included in this item. (Make: Bajaj / Transrail / Valmond/ Utkarsh /Skipper)	Item	1,02,809.00

## Schedule of Rates

Serial Number	Description of Items	Unit	Rate (without GST & Cess) (in Rs.)
04.	Erection of high Mast (12.0 / 12.50 M) on RCC foundation with cement concrete considering actual SBC of soil, with the help of suitable modern engg. tools and Plants, wiring of luminaries with all wiring materials like PVC insulated flexible cable of suitable copper conductor core of 1.5 mm <sup>2</sup> lugs, up to 10 nos. 6A MCB along with construction of shallow foundation with cement concrete for high Mast considering the safe soil bearing capacity as per site condition, as per drawing and design of manufacturer of the mast. The soil test and submission of its report is within the scope of the work.	Item	47,160.00
05.	Erection, testing & commissioning of up to 12.0 / 12.5 / 16.0 meter high mast on the existing civil foundation by bolts with suitable tools, tackles, machines etc, all complete, as per direction of the EIC.	Item	25,483.00



# **H-Series**

**(RATE)**

**UD & MA SCHEDULE**



## HIGH MAST FOR ILLUMINATION SYSTEMS

Serial Number	Description of Items	Unit	Rate (without GST & Cess) (in Rs.)
1	Supply and delivery of (ABB/L&T/KACO/POWER ONE Make) String Inverter		
1a)	Rated output AC power : 5.8kW AC grid connection type : Three phase 3W + PE or 4W + PE Rated AC grid voltage : 400V Rated output frequency: 50Hz Maximum AC output Current: 10A	Each	90,000.00
1b)	Rated output AC power : 50kW AC grid connection type : Three phase 3W + PE or 4W + PE Rated AC grid voltage : 400V Rated output frequency: 50Hz Maximum AC output Current: 77A	Each	2,60,000.00
2	Supply and delivery of 320W (peak) solar PV Module with multi crystalline solar cell ( Make: TATA/WEBSOL)	Each	7,680.00
3	Supply and fixing of Micro Inverter (Outdoor type) (Make: L&T/ABB/EXIDE/KACO/POWER ONE ) of capacity 300W and provision to auto synchronize with grid (230 Volt, 50Hz). The inverter should have built in protection system	Each	18,055.00
4	Supply, Delivery and installation of Carbon Neutrality Manager located close to the AC distribution board. Monitoring System of Micro Inverter and appropriate Energy Meter (Make: ABB/L&T/CGL/EXIDE/POWER ONE).	Each	1,28,814.00

