

**CHAPTER NO. 33**

**ELECTRICAL**

Sr. No.	Description	Unit	Plains		Sub Mountainous	
			Labour Rate	Through Rate	Labour Rate	Through Rate
1	2	3	4	5	6	7
33.01	<b>RECESSED CONDUIT PIPE WIRING SYSTEM WITH MODULAR SWITCHES:</b>					
	<b>Wiring in PVC insulated copper conductor single core FRLS cable (ISI marked), 1100volts grade to be laid in heavy gauge welded conduit pipe 20 mm/25 mm dia (1.6mm thick) ISI Marked, recessed in wall etc., complete with powder coated/anodized concealed metal boxes required for suitable number of modules, for having electronic fan regulators (two module), bell push, electronic buzzer, 3pin 6Amp., 3pin 16/20 Amp. Sockets and 6 Amp./16/20Amp. Swithces etc., and covered with Frame Plate etc., &amp; including the cost of required number of modular switches/sockets, step type electronic fan regulator 100 watts, PVC connector (For Fan Box and Electronic Buzzer), PVC Bush, Steel Hooks, Circular Inspection Box (Recessed Type and Deep Type) conduit pipe &amp; copper wire and other petty material etc. including the cost of cutting and filling up of chases:-</b>					
	(i) a Wiring fan point without fan box in PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1.5 sq. mm, 1100volts grade with step type electronic fan regulator 100watts (two module).	per point	111.09	1096.63	122.20	1107.74
	(i) b Wiring fan point with sheet metal fan box (shape hexagonal & sheet thickness not less than 1.60 mm) in PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1.5 sq. mm, 1100volts grade with step type electronic fan regulator 100watts (two module).	per point	111.09	1186.88	122.20	1197.99
	(ii) Wiring light point in PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1.5 sq. mm, 1100volts grade.	per point	91.72	723.13	100.89	732.30
	(iii) Wiring call-bell point in PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1.5 sq. mm, 1100volts grade with bell push and electronic buzzer 230 volts AC (including the cost of bell push, electronic buzzer & powder coated concealed metal box for electronic buzzer).	per point	91.72	806.91	100.89	816.08

Sr. No.	Description		Unit	Plains		Sub Mountainous	
				Labour Rate	Through Rate	Labour Rate	Through Rate
1	2		3	4	5	6	7
	(iv)	Wiring 3 pin 6 Amp. wall socket (Shuttered) point in PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1.5 sq. mm, 1100volts grade complete with bonding to existing earth with PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1 sq. mm, 1100volts grade.	per point	74.59	615.84	82.05	623.30
	(v)	Wiring 3 Pin 6 Amp. Plug control comprising wall socket (shuttered) and switch including bonding to existing earth with PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1 sq. mm, 1100volts grade complete.	per point	64.38	375.05	70.82	381.49
	(vi)	Wiring 3 pin 16/20 amp. power plug control (shuttered) and switch.	per point	69.48	405.06	76.43	412.01
	(vii)	Wiring light point in PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1.5 sq. mm, 1100volts grade complete without control switch.	per point	64.38	311.68	70.82	318.12
	(viii)	Wiring light point in PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1.5 sq. mm, 1100volts grade complete with double control switches.	per point	107.49	1105.36	118.24	1116.11
	(ix)	<b>Wiring TV sockets and Telephone socket points in powder coated/anodized concealed metal boxes recessed in wall required for suitable number of modules, for having TV sockets, Telephone sockets RJ11 &amp; RJ45 (one module) etc., and covered with Frame Plate etc., &amp; including the cost of required number of modular TV sockets, Telephone sockets RJ11 &amp; RJ45 (one module) and other petty material etc. including the cost of cutting and filling up of chases:-</b>					
	(a)	Wiring TV socket point (one module)		64.38	207.37	70.82	213.81
	(b)	Wiring Telephone socket point RJ11 (one module)		64.38	220.71	70.82	227.15
	(c)	Wiring Telephone socket point RJ45 (one module)		64.38	437.65	70.82	444.09
<b>33.02</b>	<b>RECESSED PVC CONDUIT PIPE WIRING SYSTEM WITH MODULAR SWITCHES:</b>						

Sr. No.	Description	Unit	Plains		Sub Mountainous	
			Labour Rate	Through Rate	Labour Rate	Through Rate
1	2	3	4	5	6	7
	Wiring in PVC insulated copper conductor single core FRLS cable (ISI marked), 1100volts grade to be laid in heavy gauge, uPVC, fire retardant conduit pipe 20mm/25mm dia. (2mm thick) ISI Marked, recessed in wall etc., complete with powder coated/anodized concealed metal boxes required for suitable number of modules, for having electronic fan regulators, bell push, electronic buzzer, 3pin 6Amp., 3pin 16/20Amp. Sockets and 6Amp./16/20Amp. Switches (Screw Type Modular Accessories) etc., and covered with Frame Plate etc., & including the cost of required number of modular switches/sockets, step type electronic fan regulator 100watts, PVC connector (For Fan Box and Electronic Buzzer), Steel Hooks, Circular Inspection Box (Recessed Type and Deep Type) uPVC conduit pipe & copper wire and other petty material etc. including the cost of cutting and filling up of chases:-					
(i) a	Wiring fan point without fan box in PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1.5 sq. mm, 1100volts grade with step type electronic fan regulator 100watts.	per point	70.27	855.99	77.30	863.02
(i) b	Wiring fan point with sheet metal fan box (shape hexagonal & sheet thickness not less than 1.60 mm) in PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1.5 sq. mm, 1100volts grade with step type electronic fan regulator 100watts.	per point	70.27	935.80	77.30	942.83
(ii)	Wiring light point in PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1.5 sq. mm, 1100volts grade.	per point	57.55	484.69	63.31	490.45
(iii)	Wiring call-bell point in PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1.5 sq. mm, 1100volts grade with bell push and electronic buzzer 230 volts AC (including the cost of bell push, electronic buzzer & powder coated concealed metal box for electronic buzzer).	per point	57.55	562.49	63.31	568.25
(iv)	Wiring 3 pin 6 Amp. wall socket (Shuttered) point in PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1.5 sq. mm, 1100volts grade complete with bonding to existing earth with PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1 sq. mm, 1100volts grade.	per point	49.07	477.77	53.98	482.68
(v)	Wiring 3 Pin 6 Amp. Plug control comprising wall socket (shuttered) and switch including bonding to existing earth with PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1 sq. mm, 1100volts grade complete.	per point	32.18	324.08	35.40	327.30

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				Labour Rate	Through Rate	Labour Rate	Through Rate
1	2		3	4	5	6	7
	(vi)	Wiring 3 pin 16/20 amp. power plug control (shuttered) and switch.	per point	46.51	380.92	51.16	385.57
	(vii)	Wiring light point in PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1.5 sq. mm, 1100volts grade complete without control switch.	per point	32.18	178.27	35.40	181.49
	(viii)	Wiring light point in PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1.5 sq. mm, 1100volts grade complete with double control switches.	per point	53.63	750.71	58.99	756.07
<b>33.03</b>	<b>RECESSED CONDUIT PIPE WIRING SYSTEM WITH FLUSH PIANO TYPE SWITCHES:</b>						
	<b>Wiring in PVC insulated copper conductor single core FRLS cable (ISI marked), 1100volts grade to be laid in heavy gauge welded conduit pipe 20 mm/25 mm dia (1.6mm thick) ISI Marked, recessed in wall etc., complete with powder coated/anodized concealed metal boxes required for having electronic fan regulators (socket size), bell push, electronic buzzer, 3pin 6Amp., 3pin 16/20 Amp. Sockets and 6 Amp./16/20Amp. Switches (flush piano type accessories) etc. and covered with brown bakelite white glazed translucent backside painted sheet 3mm thick etc., &amp; including the cost of flush piano type switches/sockets, step type electronic fan regulator 100 watts, PVC connector (For Fan Box and Electronic Buzzer), PVC Bush, Steel Hooks, Circular Inspection Box (Recessed Type and Deep Type) conduit pipe &amp; copper wire and other petty material etc. including the cost of cutting and filling up of chases:-</b>						
	(i) a	Wiring fan point without fan box in PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1.5 sq. mm, 1100volts grade with step type electronic fan regulator 100watts (socket size).	per point	111.09	858.41	122.20	869.52
	(i) b	Wiring fan point with sheet metal fan box (shape hexagonal & sheet thickness not less than 1.60 mm) in PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1.5 sq. mm, 1100volts grade with step type electronic fan regulator 100watts (socket size).	per point	111.09	944.19	122.20	955.30
	(ii)	Wiring light point in PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1.5 sq. mm, 1100volts grade.	per point	91.72	644.36	100.89	653.53

Sr. No.	Description		Unit	Plains		Sub Mountainous	
				Labour Rate	Through Rate	Labour Rate	Through Rate
1	2		3	4	5	6	7
	(iii)	Wiring call-bell point in PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1.5 sq. mm, 1100volts grade with bell push and electronic buzzer 230 volts AC (including the cost of bell push, electronic buzzer & powder coated concealed metal box for electronic buzzer).	per point	91.72	718.71	100.89	733.18
	(iv)	Wiring 3 pin 6 Amp. wall socket point in PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1.5 sq. mm, 1100volts grade complete with bonding to existing earth with PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1 sq. mm, 1100volts grade.	per point	74.59	455.66	82.05	463.12
	(v)	Wiring 3 Pin 6 Amp. Plug control comprising wall socket and switch including bonding to existing earth with PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1 sq. mm, 1100volts grade complete.	per point	64.38	187.87	70.82	194.31
	(vi)	Wiring 3 pin 16/20 amp. power plug control and switch.	per point	69.48	296.55	76.43	303.50
	(vii)	Wiring light point in PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1.5 sq. mm, 1100volts grade complete without control switch.	per point	64.38	311.68	70.82	318.12
	(viii)	Wiring light point in PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1.5 sq. mm, 1100volts grade complete with double control switches.	per point	107.30	955.53	118.03	966.26
<b>33.04</b>	<b>SURFACE CONDUIT PIPE WIRING SYSTEM WITH MODULAR SWITCHES:</b>						
	<b>Wiring in PVC insulated copper conductor single core FRLS cable (ISI marked), 1100volts grade to be laid in heavy gauge welded conduit pipe 20 mm/25 mm dia (1.6mm thick) ISI Marked installed on surface etc., complete with uPVC boxes (on surface) required for suitable number of modules, for having electronic fan regulators (two module), bell push, electronic buzzer, 3pin 6Amp., 3pin 16/20 Amp. Sockets and 6 Amp./16/20Amp. Swithces etc., and covered with Frame Plate etc., &amp; including the cost of required number of modular switches/sockets, step type electronic fan regulator 100 watts, PVC connector (For Fan Box and Electronic Buzzer), PVC Bush, Steel Hooks, Circular Inspection Box (Surface Type) conduit pipe &amp; copper wire and other petty material etc. including the cost of painting as required:-</b>						
	(i)	Wiring fan point without fan box in PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1.5 sq. mm, 1100volts grade with step type electronic fan regulator 100watts (two module).	per point	68.16	1042.55	74.98	1049.37
	(ii)	Wiring light point in PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1.5 sq. mm, 1100volts grade.	per point	68.16	686.53	74.98	693.35

Sr. No.	Description	Unit	Plains		Sub Mountainous	
			Labour Rate	Through Rate	Labour Rate	Through Rate
1	2	3	4	5	6	7
	(iii) Wiring call-bell point in PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1.5 sq. mm, 1100volts grade with bell push and electronic buzzer 230 volts AC (including the cost of bell push, electronic buzzer and plastic surface box for electronic buzzer).	per point	51.04	759.30	56.14	764.40
	(iv) Wiring 3 pin 6 Amp. wall socket (Shuttered) point in PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1.5 sq. mm, 1100volts grade complete with bonding to existing earth with PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1 sq. mm, 1100volts grade.	per point	40.82	581.07	44.90	585.15
	(v) Wiring 3 Pin 6 Amp. Plug control comprising wall socket (shuttered) and switch including bonding to existing earth with PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1 sq. mm, 1100volts grade complete.	per point	32.66	341.93	35.93	345.20
	(vi) Wiring 3 pin 16/20 amp. power plug control (shuttered) and switch.	per point	36.75	370.93	40.43	374.61
	(vii) Wiring light point in PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1.5 sq. mm, 1100volts grade complete without control switch.	per point	32.66	274.87	35.93	278.14
	(viii) Wiring light point in PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1.5 sq. mm, 1100volts grade complete with double control switches.	per point	68.16	1029.64	74.98	1036.46
<b>33.05</b>	<b>RECESSED HDPE PIPE WIRING SYSTEM WITH MODULAR SWITCHES:</b>					
	<b>Wiring in PVC insulated copper conductor single core FRLS cable (ISI marked), 1100volts grade to be laid in HDPE electrical conduit pipe 20mm/25mm dia. ISI Marked, recessed in wall etc., complete with powder coated/anodized concealed metal boxes required for suitable number of modules, for having electronic fan regulators, bell push, electronic buzzer, 3pin 6Amp., 3pin 16/20Amp. Sockets and 6Amp./16/20Amp. Switches (Screw Type Modular Accessories) etc., and covered with Frame Plate etc., &amp; including the cost of required number of modular switches/sockets, step type electronic fan regulator 100watts, PVC connector (For Fan Box and Electronic Buzzer), Steel Hooks, Cast Iron circular Inspection box (Recessed Type and Deep Type) HDPE electrical conduit pipe &amp; copper wire and other petty material etc. including the cost of cutting and filling up of chases:-</b>					
	(i) a Wiring fan point without fan box in PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1.5 sq. mm, 1100volts grade with step type electronic fan regulator 100watts.	per point	70.27	1061.96	77.30	1068.99

Sr. No.	Description	Unit	Plains		Sub Mountainous	
			Labour Rate	Through Rate	Labour Rate	Through Rate
1	2	3	4	5	6	7
	(i) b Wiring fan point with sheet metal fan box (shape hexagonal & sheet thickness not less than 1.60 mm) in PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1.5 sq. mm, 1100volts grade with step type electronic fan regulator 100watts.	per point	70.27	1147.74	77.30	1154.77
	(ii) Wiring light point in PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1.5 sq. mm, 1100volts grade.	per point	57.55	690.64	63.31	696.40
	(iii) Wiring call-bell point in PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1.5 sq. mm, 1100volts grade with bell push and electronic buzzer 230 volts AC (including the cost of bell push, electronic buzzer & powder coated concealed metal box for electronic buzzer).	per point	57.55	774.44	63.31	780.20
	(iv) Wiring 3 pin 6 Amp. wall socket (Shuttered) point in PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1.5 sq. mm, 1100volts grade complete with bonding to existing earth with PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1 sq. mm, 1100volts grade.	per point	49.07	598.04	53.98	602.95
	(v) Wiring 3 Pin 6 Amp. Plug control comprising wall socket (shuttered) and switch including bonding to existing earth with PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1 sq. mm, 1100volts grade complete.	per point	32.18	340.59	35.40	343.81
	(vi) Wiring 3 pin 16/20 amp. power plug control (shuttered) and switch.	per point	46.51	380.92	51.16	385.57
	(vii) Wiring light point in PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1.5 sq. mm, 1100volts grade complete without control switch.	per point	32.18	281.26	35.40	284.48
	(viii) Wiring light point in PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1.5 sq. mm, 1100volts grade complete with double control switches.	per point	53.63	1048.35	58.99	1053.71
<b>33.06</b>	<b>RECESSED HDPE PIPE WIRING SYSTEM WITH FLUSH PIANO TYPE SWITCHES:</b>					
	<b>Wiring in PVC insulated copper conductor single core FRLS cable (ISI marked), 1100volts grade to be laid in HDPE conduit pipe 20mm/25mm dia. ISI Marked, recessed in wall etc., complete with powder coated/anodized concealed metal boxes required for having electronic fan regulators, bell push, electronic buzzer, 3pin 6Amp., 3pin 16/20 Amp. Sockets and 6 Amp./16/20Amp. Swithces (flush piano type accessories) etc. and covered with brown bakelite white glazed translucent backside painted sheet 3mm thick etc., &amp; including the cost of flush piano type switches/sockets, step type electronic fan regulator 100 watts, PVC connector (For Fan Box and Electronic Buzzer), PVC Bush, Steel Hooks, Cast Iron circular Inspection box (Recessed Type and Deep Type) HDPE electrical conduit pipe &amp; copper wire and other petty material etc. including the cost of cutting and filling up of chases:-</b>					

Sr. No.	Description		Unit	Plains		Sub Mountainous	
				Labour Rate	Through Rate	Labour Rate	Through Rate
1	2		3	4	5	6	7
	(i) a	Wiring fan point without fan box in PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1.5 sq. mm, 1100volts grade with step type electronic fan regulator 100watts.	per point	70.27	819.27	77.30	826.30
	(i) b	Wiring fan point with sheet metal fan box (shape hexagonal & sheet thickness not less than 1.60 mm) in PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1.5 sq. mm, 1100volts grade with step type electronic fan regulator 100watts.	per point	70.27	891.03	77.30	898.06
	(ii)	Wiring light point in PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1.5 sq. mm, 1100volts grade.	per point	57.55	611.87	63.31	617.63
	(iii)	Wiring call-bell point in PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1.5 sq. mm, 1100volts grade with bell push and electronic buzzer 230 volts AC (including the cost of bell push, electronic buzzer & powder coated concealed metal box for electronic buzzer).	per point	57.55	691.53	63.31	697.29
	(iv)	Wiring 3 pin 6 Amp. wall socket (Shuttered) point in PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1.5 sq. mm, 1100volts grade complete with bonding to existing earth with PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1 sq. mm, 1100volts grade.	per point	49.07	436.73	53.98	441.64
	(v)	Wiring 3 Pin 6 Amp. Plug control comprising wall socket (shuttered) and switch including bonding to existing earth with PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1 sq. mm, 1100volts grade complete.	per point	32.18	173.31	35.40	176.53
	(vi)	Wiring 3 pin 16/20 amp. power plug control (shuttered) and switch.	per point	46.51	272.41	51.16	277.06
	(vii)	Wiring light point in PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1.5 sq. mm, 1100volts grade complete without control switch.	per point	32.18	281.26	35.40	284.48
	(viii)	Wiring light point in PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1.5 sq. mm, 1100volts grade complete with double control switches.	per point	53.63	872.16	58.99	877.52
<b>33.07</b>	<b>REPLACEMENT OF WIRES, SHEETS, SWITCHES AND OTHER ACCESSORIES IN THE EXISTING RECESSED CONDUIT PIPE WIRING SYSTEM (WITH FLUSH PIANO TYPE SWITCHES):</b>						



Sr. No.	Description	Unit	Plains		Sub Mountainous	
			Labour Rate	Through Rate	Labour Rate	Through Rate
1	2	3	4	5	6	7
	<b>Wiring in PVC insulated copper conductor single core FRLS cable (ISI marked), 1100volts grade to be laid in existing heavy gauge welded conduit pipe 20 mm/25 mm dia (1.6mm thick) ISI Marked, recessed in wall etc., complete with electronic fan regulators (socket size), bell push, electronic buzzer, 3pin 6Amp., 3pin 16/20 Amp. Sockets and 6 Amp./16/20Amp. Swithces (flush piano type accessories) etc. and covered with brown bakelite white glazed translucent backside painted sheet 3mm thick etc., &amp; including the cost of flush piano type switches/sockets, step type electronic fan regulator 100 watts, PVC connector (For Fan Box and Electronic Buzzer), PVC Bush, &amp; copper wire and other petty material etc. including the cost of repair of chases:- (Derived From CSR 33.03)</b>					
	(i) a Wiring fan point without fan box in PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1.5 sq. mm, 1100volts grade with step type electronic fan regulator 100watts (socket size).	per point	44.91	417.10	49.40	421.59
	(i) b Wiring fan point with sheet metal fan box (shape hexagonal & sheet thickness not less than 1.60 mm) in PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1.5 sq. mm, 1100volts grade with step type electronic fan regulator 100watts (socket size).	per point	44.91	417.10	49.40	421.59
	(ii) Wiring light point in PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1.5 sq. mm, 1100volts grade.	per point	33.89	197.68	37.28	201.07
	(iii) Wiring call-bell point in PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1.5 sq. mm, 1100volts grade with bell push and electronic buzzer 230 volts AC (including the cost of bell push, electronic buzzer & powder coated concealed metal box for electronic buzzer).	per point	33.89	250.73	37.28	254.12
	(iv) Wiring 3 pin 6 Amp. wall socket point in PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1.5 sq. mm, 1100volts grade complete with bonding to existing earth with PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1 sq. mm, 1100volts grade.	per point	27.34	174.51	30.07	177.24
	(v) Wiring 3 Pin 6 Amp. Plug control comprising wall socket and switch including bonding to existing earth with PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1 sq. mm, 1100volts grade complete.	per point	14.96	96.72	16.46	98.22
	(vi) Wiring 3 pin 16/20 amp. power plug control and switch.	per point	16.33	139.65	17.96	141.28
	(vii) Wiring light point in PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1.5 sq. mm, 1100volts grade complete without control switch.	per point	16.33	71.58	17.96	73.21
	(viii) Wiring light point in PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1.5 sq. mm, 1100volts grade complete with double control switches.	per point	45.32	298.56	49.85	303.09
<b>33.08</b>	<b>REPLACEMENT OF WIRES, COVER FRAMES, MODULAR SWITCHES, CONCEALED METAL BOX AND OTHER ACCESSORIES IN THE EXISTING RECESSED CONDUIT PIPE WIRING SYSTEM (WITH MODULAR TYPE ACCESSORIES):</b>					

Sr. No.	Description	Unit	Plains		Sub Mountainous	
			Labour Rate	Through Rate	Labour Rate	Through Rate
1	2	3	4	5	6	7
	<b>Wiring in PVC insulated copper conductor single core FRLS cable (ISI marked), 1100volts grade to be laid in the existing heavy gauge welded conduit pipe 20 mm/25 mm dia (1.6mm thick) ISI Marked, recessed in wall etc., complete with powder coated/anodized concealed metal boxes required for suitable number of modules, for having electronic fan regulators (two module), bell push, electronic buzzer, 3pin 6Amp., 3pin 16/20 Amp. Sockets and 6Amp./16/20Amp. Switches etc., and covered with Frame Plate etc., &amp; including the cost of required number of modular switches/ sockets, step type electronic fan regulator 100 watts, PVC connector (For Fan Box and Electronic Buzzer), PVC Bush, &amp; copper wire and other petty material etc. including the cost of repair of chases:-</b>					
	(i) a Wiring fan point without fan box in PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1.5 sq. mm, 1100volts grade with step type electronic fan regulator 100watts (two module).	per point	57.09	708.09	62.80	713.80
	(i) b Wiring fan point with sheet metal fan box (shape hexagonal & sheet thickness not less than 1.60 mm) in PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1.5 sq. mm, 1100volts grade with step type electronic fan regulator 100watts (two module).	per point	57.09	726.58	62.80	732.29
	(ii) Wiring light point in PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1.5 sq. mm, 1100volts grade.	per point	45.66	325.48	50.23	330.05
	(iii) Wiring call-bell point in PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1.5 sq. mm, 1100volts grade with bell push and electronic buzzer 230 volts AC (including the cost of bell push, electronic buzzer & powder coated concealed metal box for electronic buzzer).	per point	45.66	415.64	50.23	420.21
	(iv) Wiring 3 pin 6 Amp. wall socket (Shuttered) point in PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1.5 sq. mm, 1100volts grade complete with bonding to existing earth with PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1 sq. mm, 1100volts grade.	per point	39.12	390.85	43.03	394.76
	(v) Wiring 3 Pin 6 Amp. Plug control comprising wall socket (shuttered) and switch including bonding to existing earth with PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1 sq. mm, 1100volts grade complete.	per point	26.73	311.23	29.40	313.90
	(vi) Wiring 3 pin 16/20 amp. power plug control (shuttered) and switch.	per point	28.12	363.10	30.93	365.91
	(vii) Wiring light point in PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1.5 sq. mm, 1100volts grade complete without control switch.	per point	25.76	81.01	28.34	83.59
	(viii) Wiring light point in PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1.5 sq. mm, 1100volts grade complete with double control switches.	per point	68.87	570.96	75.76	577.85

Sr. No.	Description	Unit	Plains		Sub Mountainous	
			Labour Rate	Through Rate	Labour Rate	Through Rate
1	2	3	4	5	6	7
<b>33.09</b>	<b>PVC INSULATED SINGLE CORE FRLS COPPER CONDUCTOR CABLE:</b>					
	<b>Supply and erection of PVC insulated single core FRLS copper conductor cable ISI marked left bare in pipe or casing of suitable size excluding the cost of supply and erection of pipe or casing.</b>					
	(i) PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1 sq.mm, 1100volts grade	m	3.57	10.87	3.93	11.23
	(ii) PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1.5 sq.mm, 1100volts grade	m	3.57	14.39	3.93	14.75
	(iii) PVC insulated copper conductor single core FRLS cable (ISI marked) overall 2.5 sq.mm, 1100volts grade	m	3.57	20.58	3.93	20.94
	(iv) PVC insulated copper conductor single core FRLS cable (ISI marked) overall 4 sq.mm, 1100volts grade	m	4.08	28.54	4.49	28.95
	(v) PVC insulated copper conductor single core FRLS cable (ISI marked) overall 6 sq.mm, 1100volts grade	m	4.08	42.87	4.49	43.28
	(vi) PVC insulated copper conductor single core FRLS cable (ISI marked) overall 10 sq.mm, 1100volts grade	m	4.08	69.78	4.49	70.19
	(vii) PVC insulated copper conductor single core FRLS cable (ISI marked) overall 16 sq.mm, 1100volts grade	m	4.08	107.46	4.49	107.87
	(viii) PVC insulated copper conductor single core FRLS cable (ISI marked) overall 25 sq.mm, 1100volts grade	m	5.43	172.46	5.97	173.00
	(ix) PVC insulated copper conductor single core FRLS cable (ISI marked) overall 35 sq.mm, 1100volts grade	m	6.12	226.77	6.73	227.38
	(x) PVC insulated copper conductor single core FRLS cable (ISI marked) overall 50 sq.mm, 1100volts grade	m	6.12	329.44	6.73	330.05
	<b>PVC INSULATED PVC SHEATHED TWIN FLEXIBLE COPPER CONDUCTOR CABLE:</b>					
	<b>(xi) Supply and erection of PVC insulated PVC sheathed twin flexible wire with copper conductor complete in all respect as desired by the Engineer-in-charge.</b>					
	(a) PVC insulated PVC sheathed twin flexible wire with copper conductor of size 0.5 sq.mm (16/0.20mm)	m	5.49	15.61	6.04	16.16
	(b) PVC insulated PVC sheathed twin flexible wire with copper conductor of size 0.75 sq.mm (24/0.20mm)	m	5.49	19.02	6.04	19.57
	(c) PVC insulated PVC sheathed twin flexible wire with copper conductor of size 1.5 sq.mm (48/0.20mm)	m	5.49	23.00	6.04	23.55

Sr. No.	Description		Unit	Plains		Sub Mountainous	
				Labour Rate	Through Rate	Labour Rate	Through Rate
1	2		3	4	5	6	7
	(d)	PVC insulated PVC sheathed twin flexible wire with copper conductor of size 2.5 sq.mm (80/0.20mm)	m	5.49	29.89	6.04	30.44
<b>33.10 A</b>	<b>XLPE/ PVC INSULATED ARMoured CABLES</b>						
	<b>Supply &amp; laying of aluminium conductor XLPE/ P.V.C. insulated PVC sheathed armoured and served cable to be laid 1 m below ground level including excavation, sand cushioning, covering with sand &amp; bricks and back filling the trench etc., of the required size as per PWD General Specifications 2010:-</b>						
	(i)	Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 6sq.mm (Twin Core)	m	38.96	178.19	42.86	182.09
	(ii)	Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 10sq.mm (Twin Core)	m	38.96	191.05	42.86	194.95
	(iii)	Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 16sq.mm (Twin Core)	m	38.96	198.23	42.86	202.13
	(iv)	Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 25sq.mm (Twin Core)	m	38.96	208.68	42.86	212.58
	(v)	Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 35sq.mm (Twin Core)	m	38.96	232.84	42.86	236.74
	(vi)	Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 50sq.mm (Twin Core)	m	38.96	270.06	42.86	273.96
	(vii)	Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 4sq.mm (Three Core)	m	38.96	174.27	42.86	178.17
	(viii)	Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 6sq.mm (Three Core)	m	38.96	189.75	42.86	193.65
	(ix)	Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 10sq.mm (Three Core)	m	38.96	206.07	42.86	209.97
	(x)	Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 16sq.mm (Three Core)	m	38.96	217.82	42.86	221.72
	(xi)	Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 25sq.mm (Three Core)	m	38.96	245.04	42.86	248.94

Sr. No.	Description		Unit	Plains		Sub Mountainous	
				Labour Rate	Through Rate	Labour Rate	Through Rate
1	2		3	4	5	6	7
	(xii)	Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 35sq.mm (Three Core)	m	38.96	284.34	42.86	288.24
	(xiii)	Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 50sq.mm (Three Core)	m	38.96	331.04	42.86	334.94
	(xiv)	Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 70sq.mm (Three Core)	m	44.06	406.98	48.47	411.39
	(xv)	Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 95sq.mm (Three Core)	m	44.06	476.89	48.47	481.30
	(xvi)	Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 120sq.mm (Three Core)	m	59.37	571.72	65.31	577.66
	(xvii)	Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 150sq.mm (Three Core)	m	69.58	677.91	76.54	684.87
	(xviii)	Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 185sq.mm (Three Core)	m	69.58	796.93	76.54	803.89
	(xix)	Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 240sq.mm (Three Core)	m	69.58	992.27	76.54	999.23
	(xx)	Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 300sq.mm (Three Core)	m	69.58	1186.30	76.54	1193.26
	(xxi)	Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 400sq.mm (Three Core)	m	69.58	1456.60	76.54	1463.56
	(xxii)	Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 25sq.mm (3 ½ Core)	m	38.96	271.32	42.86	275.22
	(xxiii)	Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 35sq.mm (3 ½ Core)	m	38.96	301.63	42.86	305.53
	(xxiv)	Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 50sq.mm (3 ½ Core)	m	38.96	366.47	42.86	370.37
	(xxv)	Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 70sq.mm (3 ½ Core)	m	44.06	453.92	48.47	458.33
	(xxvi)	Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 95sq.mm (3 ½ Core)	m	44.06	533.88	48.47	538.29

Sr. No.	Description		Unit	Plains		Sub Mountainous	
				Labour Rate	Through Rate	Labour Rate	Through Rate
1	2		3	4	5	6	7
	(xxvii)	Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 120sq.mm (3 ½ Core)	m	59.37	662.60	65.31	668.54
	(xxviii)	Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 150sq.mm (3 ½ Core)	m	69.58	758.60	76.54	765.56
	(xxix)	Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 185sq.mm (3 ½ Core)	m	69.58	908.83	76.54	915.79
	(xxx)	Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 240sq.mm (3 ½ Core)	m	69.58	1126.23	76.54	1133.19
	(xxxii)	Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 300sq.mm (3 ½ Core)	m	69.58	1349.52	76.54	1356.48
	(xxxiii)	Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 400sq.mm (3 ½ Core)	m	69.58	1663.95	76.54	1670.91
	(xxxiv)	Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 6sq.mm (4 Core)	m	38.96	205.42	42.86	209.32
	(xxxv)	Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 10sq.mm (4 Core)	m	38.96	211.29	42.86	215.19
	(xxxvi)	Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 16sq.mm (4 Core)	m	38.96	239.37	42.86	243.27
<b>33.10 B</b>	<b>XLPE/ PVC INSULATED ARMOURED CABLES (LOOSE):</b>						
	<b>Supply &amp; laying of aluminium conductor XLPE/ P.V.C. insulated armoured and served cable to be laid loose in the existing trench or pipe as per PWD General Specifications 2010:-</b>						
	(i)	Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 6sq.mm (Twin Core)	m	7.65	85.54	8.42	86.31
	(ii)	Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 10sq.mm (Twin Core)	m	7.65	98.40	8.42	99.17
	(iii)	Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 16sq.mm (Twin Core)	m	7.65	105.58	8.42	106.35
	(iv)	Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 25sq.mm (Twin Core)	m	7.65	116.02	8.42	116.79
	(v)	Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 35sq.mm (Twin Core)	m	7.65	140.18	8.42	140.95

Sr. No.	Description		Unit	Plains		Sub Mountainous	
				Labour Rate	Through Rate	Labour Rate	Through Rate
1	2		3	4	5	6	7
	(vi)	Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 50sq.mm (Twin Core)	m	7.65	177.40	8.42	178.17
	(vii)	Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 4sq.mm (Three Core)	m	7.65	81.62	8.42	82.39
	(viii)	Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 6sq.mm (Three Core)	m	7.65	97.09	8.42	97.86
	(ix)	Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 10sq.mm (Three Core)	m	7.65	113.42	8.42	114.19
	(x)	Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 16sq.mm (Three Core)	m	7.65	125.17	8.42	125.94
	(xi)	Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 25sq.mm (Three Core)	m	7.65	152.39	8.42	153.16
	(xii)	Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 35sq.mm (Three Core)	m	7.65	191.69	8.42	192.46
	(xiii)	Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 50sq.mm (Three Core)	m	7.65	238.39	8.42	239.16
	(xiv)	Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 70sq.mm (Three Core)	m	10.21	311.79	11.23	312.81
	(xv)	Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 95sq.mm (Three Core)	m	10.21	381.70	11.23	382.72
	(xvi)	Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 120sq.mm (Three Core)	m	15.31	466.32	16.84	467.85
	(xvii)	Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 150sq.mm (Three Core)	m	22.96	569.94	25.26	572.24
	(xviii)	Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 185sq.mm (Three Core)	m	22.96	688.97	25.26	691.27
	(xix)	Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 240sq.mm (Three Core)	m	22.96	884.30	25.26	886.60
	(xx)	Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 300sq.mm (Three Core)	m	22.96	1078.34	25.26	1080.64

Sr. No.	Description	Unit	Plains		Sub Mountainous	
			Labour Rate	Through Rate	Labour Rate	Through Rate
1	2	3	4	5	6	7
	(xxi) Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 400sq.mm (Three Core)	m	22.96	1348.63	25.26	1350.93
	(xxii) Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 25sq.mm (3 ½ Core)	m	7.65	178.67	8.42	179.44
	(xxiii) Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 35sq.mm (3 ½ Core)	m	7.65	208.98	8.42	209.75
	(xxiv) Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 50sq.mm (3 ½ Core)	m	7.65	273.81	8.42	274.58
	(xxv) Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 70sq.mm (3 ½ Core)	m	10.21	358.73	11.23	359.75
	(xxvi) Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 95sq.mm (3 ½ Core)	m	10.21	438.69	11.23	439.71
	(xxvii) Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 120sq.mm (3 ½ Core)	m	15.31	557.20	16.84	558.73
	(xxviii) Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 150sq.mm (3 ½ Core)	m	22.96	650.63	25.26	652.93
	(xxix) Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 150sq.mm (3 ½ Core)	m	22.96	800.86	25.26	803.16
	(xxx) Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 240sq.mm (3 ½ Core)	m	22.96	1018.27	25.26	1020.57
	(xxxii) Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 300sq.mm (3 ½ Core)	m	22.96	1241.56	25.26	1243.86
	(xxxiii) Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 400sq.mm (3 ½ Core)	m	22.96	1555.99	25.26	1555.99
	(xxxiv) Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 6sq.mm (4 Core)	m	7.65	112.77	8.42	113.54
	(xxxv) Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 10sq.mm (4 Core)	m	7.65	118.64	8.42	119.41
	(xxxvi) Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 16sq.mm (4 Core)	m	7.65	146.71	8.42	147.48
<b>33.10 C</b>	<b>XLPE/ PVC INSULATED UN-ARMOURED CABLES (ON SURFACE):</b>					



Sr. No.	Description	Unit	Plains		Sub Mountainous	
			Labour Rate	Through Rate	Labour Rate	Through Rate
1	2	3	4	5	6	7
	<b>Supply and laying of XLPE/ P.V.C. insulated P.V.C. sheathed aluminium conductor un-armoured cable working voltage upto and including 1100 volts grade (on surface ) as per PWD General Specifications 2010:-</b>					
	(i) Supply and laying of XLPE/ P.V.C. insulated P.V.C. sheathed aluminium conductor un-armoured cable working voltage upto and including 1100 volts grade (on surface ) as per PWD General Specifications 2010:-	m	10.21	88.77	11.23	89.79
	(ii) XLPE/ PVC insulated PVC sheathed aluminium conductor unarmoured cable working voltage 1100volts grade 10sq.mm (Twin Core)	m	10.21	100.26	11.23	101.28
	(iii) XLPE/ PVC insulated PVC sheathed aluminium conductor unarmoured cable working voltage 1100volts grade 16sq.mm (Twin Core)	m	10.21	115.28	11.23	116.30
	(iv) XLPE/ PVC insulated PVC sheathed aluminium conductor unarmoured cable working voltage 1100volts grade 25sq.mm (Twin Core)	m	10.21	120.30	11.23	121.32
	(v) XLPE/ PVC insulated PVC sheathed aluminium conductor unarmoured cable working voltage 1100volts grade 35sq.mm (Twin Core)	m	10.21	159.60	11.23	160.62
	(vi) XLPE/ PVC insulated PVC sheathed aluminium conductor unarmoured cable working voltage 1100volts grade 50sq.mm (Twin Core)	m	10.21	179.08	11.23	180.10
	(vii) XLPE/ PVC insulated PVC sheathed aluminium conductor unarmoured cable working voltage 1100volts grade 4sq.mm (Three Core)	m	10.21	86.55	11.23	87.57
	(viii) XLPE/ PVC insulated PVC sheathed aluminium conductor unarmoured cable working voltage 1100volts grade 6sq.mm (Three Core)	m	10.21	97.00	11.23	98.02
	(ix) XLPE/ PVC insulated PVC sheathed aluminium conductor unarmoured cable working voltage 1100volts grade 10sq.mm (Three Core)	m	10.21	114.63	11.23	115.65
	(x) XLPE/ PVC insulated PVC sheathed aluminium conductor unarmoured cable working voltage 1100volts grade 16sq.mm (Three Core)	m	10.21	126.38	11.23	127.40
	(xi) XLPE/ PVC insulated PVC sheathed aluminium conductor unarmoured cable working voltage 1100volts grade 25sq.mm (Three Core)	m	10.21	155.76	11.23	156.78
	(xii) XLPE/ PVC insulated PVC sheathed aluminium conductor unarmoured cable working voltage 1100volts grade 35sq.mm (Three Core)	m	10.21	197.36	11.23	198.38
	(xiii) XLPE/ PVC insulated PVC sheathed aluminium conductor unarmoured cable working voltage 1100volts grade 50sq.mm (Three Core)	m	10.21	241.93	11.23	242.95
	(xiv) XLPE/ PVC insulated PVC sheathed aluminium conductor unarmoured cable working voltage 1100volts grade 70sq.mm (Three Core)	m	15.31	314.17	16.84	315.70

Sr. No.	Description	Unit	Plains		Sub Mountainous	
			Labour Rate	Through Rate	Labour Rate	Through Rate
1	2	3	4	5	6	7
	(xv) XLPE/ PVC insulated PVC sheathed aluminium conductor unarmoured cable working voltage 1100volts grade 95sq.mm (Three Core)	m	15.31	380.31	16.84	381.84
	(xvi) XLPE/ PVC insulated PVC sheathed aluminium conductor unarmoured cable working voltage 1100volts grade 120sq.mm (Three Core)	m	22.96	486.79	25.26	489.09
	(xvii) XLPE/ PVC insulated PVC sheathed aluminium conductor unarmoured cable working voltage 1100volts grade 150sq.mm (Three Core)	m	30.62	583.83	33.68	586.89
	(xviii) XLPE/ PVC insulated PVC sheathed aluminium conductor unarmoured cable working voltage 1100volts grade 185sq.mm (Three Core)	m	30.62	698.67	33.68	701.73
	(xix) XLPE/ PVC insulated PVC sheathed aluminium conductor unarmoured cable working voltage 1100volts grade 240sq.mm (Three Core)	m	30.62	880.37	33.68	883.43
	(xx) XLPE/ PVC insulated PVC sheathed aluminium conductor unarmoured cable working voltage 1100volts grade 300sq.mm (Three Core)	m	30.62	1065.01	33.68	1068.07
	(xxi) XLPE/ PVC insulated PVC sheathed aluminium conductor unarmoured cable working voltage 1100volts grade 400sq.mm (Three Core)	m	30.62	1328.64	33.68	1331.70
	(xxii) XLPE/ PVC insulated PVC sheathed aluminium conductor unarmoured cable working voltage 1100volts grade 25sq.mm (3 ½ Core)	m	10.21	178.48	11.23	179.50
	(xxiii) XLPE/ PVC insulated PVC sheathed aluminium conductor unarmoured cable working voltage 1100volts grade 35sq.mm (3 ½ Core)	m	10.21	217.96	11.23	218.98
	(xxiv) XLPE/ PVC insulated PVC sheathed aluminium conductor unarmoured cable working voltage 1100volts grade 50sq.mm (3 ½ Core)	m	10.21	272.81	11.23	273.83
	(xxv) XLPE/ PVC insulated PVC sheathed aluminium conductor unarmoured cable working voltage 1100volts grade 70sq.mm (3 ½ Core)	m	15.31	356.08	16.84	357.61
	(xxvi) XLPE/ PVC insulated PVC sheathed aluminium conductor unarmoured cable working voltage 1100volts grade 95sq.mm (3 ½ Core)	m	15.31	432.61	16.84	434.14
	(xxvii) XLPE/ PVC insulated PVC sheathed aluminium conductor unarmoured cable working voltage 1100volts grade 120sq.mm (3 ½ Core)	m	22.96	534.99	25.26	537.29
	(xxviii) XLPE/ PVC insulated PVC sheathed aluminium conductor unarmoured cable working voltage 1100volts grade 150sq.mm (3 ½ Core)	m	30.62	657.55	33.68	660.61
	(xxix) XLPE/ PVC insulated PVC sheathed aluminium conductor unarmoured cable working voltage 1100volts grade 185sq.mm (3 ½ Core)	m	30.62	800.26	33.68	803.32

Sr. No.	Description		Unit	Plains		Sub Mountainous	
				Labour Rate	Through Rate	Labour Rate	Through Rate
1	2		3	4	5	6	7
	(xxx)	XLPE/ PVC insulated PVC sheathed aluminium conductor unarmoured cable working voltage 1100volts grade 240sq.mm (3 ½ Core)	m	30.62	1009.51	33.68	1012.57
	(xxxii)	XLPE/ PVC insulated PVC sheathed aluminium conductor unarmoured cable working voltage 1100volts grade 300sq.mm (3 ½ Core)	m	30.62	1221.96	33.68	1225.02
	(xxxiii)	XLPE/ PVC insulated PVC sheathed aluminium conductor unarmoured cable working voltage 1100volts grade 400sq.mm (3 ½ Core)	m	30.62	1519.15	33.68	1522.21
	(xxxiv)	XLPE/ PVC insulated PVC sheathed aluminium conductor unarmoured cable working voltage 1100volts grade 6sq.mm (4 Core)	m	10.21	108.10	11.23	109.12
	(xxxv)	XLPE/ PVC insulated PVC sheathed aluminium conductor unarmoured cable working voltage 1100volts grade 10sq.mm (4 Core)	m	10.21	126.77	11.23	127.79
	(xxxvi)	XLPE/ PVC insulated PVC sheathed aluminium conductor unarmoured cable working voltage 1100volts grade 16sq.mm (4 Core)	m	10.21	145.51	11.23	146.53
<b>33.10 D</b>	<b>XLPE/ PVC INSULATED UN-ARMOURED CABLES (LOOSE IN THE EXISTING TRENCH OR PIPE):</b>						
	<b>Supply and laying of XLPE/ P.V.C. insulated P.V.C. sheathed aluminium conductor un-armoured cable working voltage upto and including 1100 volts grade to be laid loose in the existing trench or pipe as per PWD General Specifications 2010:-</b>						
	(i)	XLPE/ PVC insulated PVC sheathed aluminium conductor unarmoured cable working voltage 1100volts grade 6sq.mm (Twin Core)	m	7.65	49.70	8.42	50.47
	(ii)	XLPE/ PVC insulated PVC sheathed aluminium conductor unarmoured cable working voltage 1100volts grade 10sq.mm (Twin Core)	m	7.65	61.19	8.42	61.96
	(iii)	XLPE/ PVC insulated PVC sheathed aluminium conductor unarmoured cable working voltage 1100volts grade 16sq.mm (Twin Core)	m	7.65	76.20	8.42	76.97
	(iv)	XLPE/ PVC insulated PVC sheathed aluminium conductor unarmoured cable working voltage 1100volts grade 25sq.mm (Twin Core)	m	7.65	81.23	8.42	82.00
	(v)	XLPE/ PVC insulated PVC sheathed aluminium conductor unarmoured cable working voltage 1100volts grade 35sq.mm (Twin Core)	m	7.65	108.56	8.42	109.33
	(vi)	XLPE/ PVC insulated PVC sheathed aluminium conductor unarmoured cable working voltage 1100volts grade 50sq.mm (Twin Core)	m	7.65	128.04	8.42	128.81
	(vii)	XLPE/ PVC insulated PVC sheathed aluminium conductor unarmoured cable working voltage 1100volts grade 4sq.mm (Three Core)	m	7.65	47.47	8.42	48.24

Sr. No.	Description	Unit	Plains		Sub Mountainous	
			Labour Rate	Through Rate	Labour Rate	Through Rate
1	2	3	4	5	6	7
	(viii) XLPE/ PVC insulated PVC sheathed aluminium conductor unarmoured cable working voltage 1100volts grade 6sq.mm (Three Core)	m	7.65	57.92	8.42	58.69
	(ix) XLPE/ PVC insulated PVC sheathed aluminium conductor unarmoured cable working voltage 1100volts grade 10sq.mm (Three Core)	m	7.65	75.55	8.42	76.32
	(x) XLPE/ PVC insulated PVC sheathed aluminium conductor unarmoured cable working voltage 1100volts grade 16sq.mm (Three Core)	m	7.65	87.30	8.42	88.07
	(xi) XLPE/ PVC insulated PVC sheathed aluminium conductor unarmoured cable working voltage 1100volts grade 25sq.mm (Three Core)	m	7.65	116.69	8.42	117.46
	(xii) XLPE/ PVC insulated PVC sheathed aluminium conductor unarmoured cable working voltage 1100volts grade 35sq.mm (Three Core)	m	7.65	146.32	8.42	147.09
	(xiii) XLPE/ PVC insulated PVC sheathed aluminium conductor unarmoured cable working voltage 1100volts grade 50sq.mm (Three Core)	m	7.65	190.89	8.42	191.66
	(xiv) XLPE/ PVC insulated PVC sheathed aluminium conductor unarmoured cable working voltage 1100volts grade 70sq.mm (Three Core)	m	10.21	260.59	11.23	261.61
	(xv) XLPE/ PVC insulated PVC sheathed aluminium conductor unarmoured cable working voltage 1100volts grade 95sq.mm (Three Core)	m	10.21	326.72	11.23	327.74
	(xvi) XLPE/ PVC insulated PVC sheathed aluminium conductor unarmoured cable working voltage 1100volts grade 120sq.mm (Three Core)	m	15.31	403.64	16.84	405.17
	(xvii) XLPE/ PVC insulated PVC sheathed aluminium conductor unarmoured cable working voltage 1100volts grade 150sq.mm (Three Core)	m	22.96	500.68	25.26	502.98
	(xviii) XLPE/ PVC insulated PVC sheathed aluminium conductor unarmoured cable working voltage 1100volts grade 185sq.mm (Three Core)	m	22.96	615.51	25.26	617.81
	(xix) XLPE/ PVC insulated PVC sheathed aluminium conductor unarmoured cable working voltage 1100volts grade 240sq.mm (Three Core)	m	22.96	797.22	25.26	799.52
	(xx) XLPE/ PVC insulated PVC sheathed aluminium conductor unarmoured cable working voltage 1100volts grade 300sq.mm (Three Core)	m	22.96	981.85	25.26	984.15
	(xxi) XLPE/ PVC insulated PVC sheathed aluminium conductor unarmoured cable working voltage 1100volts grade 400sq.mm (Three Core)	m	22.96	1245.48	25.26	1247.78
	(xxii) XLPE/ PVC insulated PVC sheathed aluminium conductor unarmoured cable working voltage 1100volts grade 25sq.mm (3 ½ Core)	m	7.65	139.40	8.42	140.17

Sr. No.	Description	Unit	Plains		Sub Mountainous	
			Labour Rate	Through Rate	Labour Rate	Through Rate
1	2	3	4	5	6	7
	(xxiii) XLPE/ PVC insulated PVC sheathed aluminium conductor unarmoured cable working voltage 1100volts grade 35sq.mm (3 ½ Core)	m	7.65	166.92	8.42	167.69
	(xxiv) XLPE/ PVC insulated PVC sheathed aluminium conductor unarmoured cable working voltage 1100volts grade 50sq.mm (3 ½ Core)	m	221.77	221.77	8.42	222.54
	(xxv) XLPE/ PVC insulated PVC sheathed aluminium conductor unarmoured cable working voltage 1100volts grade 70sq.mm (3 ½ Core)	m	10.21	302.50	11.23	303.52
	(xxvi) XLPE/ PVC insulated PVC sheathed aluminium conductor unarmoured cable working voltage 1100volts grade 95sq.mm (3 ½ Core)	m	10.21	379.03	11.23	380.05
	(xxvii) XLPE/ PVC insulated PVC sheathed aluminium conductor unarmoured cable working voltage 1100volts grade 120sq.mm (3 ½ Core)	m	15.31	478.85	16.84	480.38
	(xxviii) XLPE/ PVC insulated PVC sheathed aluminium conductor unarmoured cable working voltage 1100volts grade 150sq.mm (3 ½ Core)	m	22.96	574.39	25.26	576.69
	(xxix) XLPE/ PVC insulated PVC sheathed aluminium conductor unarmoured cable working voltage 1100volts grade 185sq.mm (3 ½ Core)	m	22.96	717.10	25.26	719.40
	(xxx) XLPE/ PVC insulated PVC sheathed aluminium conductor unarmoured cable working voltage 1100volts grade 240sq.mm (3 ½ Core)	m	22.96	926.35	25.26	928.65
	(xxxii) XLPE/ PVC insulated PVC sheathed aluminium conductor unarmoured cable working voltage 1100volts grade 300sq.mm (3 ½ Core)	m	22.96	1138.80	25.26	1141.10
	(xxxiii) XLPE/ PVC insulated PVC sheathed aluminium conductor unarmoured cable working voltage 1100volts grade 400sq.mm (3 ½ Core)	m	22.96	1435.99	25.26	1438.29
	(xxxiv) XLPE/ PVC insulated PVC sheathed aluminium conductor unarmoured cable working voltage 1100volts grade 6sq.mm (4 Core)	m	7.65	69.02	8.42	69.79
	(xxxv) XLPE/ PVC insulated PVC sheathed aluminium conductor unarmoured cable working voltage 1100volts grade 10sq.mm (4 Core)	m	7.65	87.69	8.42	88.46
	(xxxvi) XLPE/ PVC insulated PVC sheathed aluminium conductor unarmoured cable working voltage 1100volts grade 16sq.mm (4 Core)	m	7.65	106.43	8.42	107.20
<b>33.10 E</b>	<b>XLPE/ PVC INSULATED ARMoured CABLES (ON SURFACE):</b>					
	<b>Supply and laying of XLPE/ P.V.C. insulated P.V.C. sheathed aluminium conductor un-armoured cable working voltage upto and including 1100 volts grade (on surface ) as per PWD General Specifications 2010:-</b>					

Sr. No.	Description		Unit	Plains		Sub Mountainous	
				Labour Rate	Through Rate	Labour Rate	Through Rate
1	2		3	4	5	6	7
	(i)	Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 6sq.mm (Twin Core)	m	10.21	124.61	11.23	125.63
	(ii)	Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 10sq.mm (Twin Core)	m	10.21	137.47	11.23	138.49
	(iii)	Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 16sq.mm (Twin Core)	m	10.21	144.65	11.23	145.67
	(iv)	Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 25sq.mm (Twin Core)	m	10.21	155.10	11.23	156.12
	(v)	Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 35sq.mm (Twin Core)	m	10.21	191.22	11.23	192.24
	(vi)	Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 50sq.mm (Twin Core)	m	10.21	228.45	11.23	229.47
	(vii)	Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 4sq.mm (Three Core)	m	10.21	120.70	11.23	121.72
	(viii)	Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 6sq.mm (Three Core)	m	10.21	136.17	11.23	137.19
	(ix)	Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 10sq.mm (Three Core)	m	10.21	152.50	11.23	153.52
	(x)	Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 16sq.mm (Three Core)	m	10.21	164.25	11.23	165.27
	(xi)	Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 25sq.mm (Three Core)	m	10.21	191.47	11.23	192.49
	(xii)	Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 35sq.mm (Three Core)	m	10.21	242.73	11.23	243.75
	(xiii)	Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 50sq.mm (Three Core)	m	10.21	289.43	11.23	290.45
	(xiv)	Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 70sq.mm (Three Core)	m	15.31	365.37	16.84	366.90
	(xv)	Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 95sq.mm (Three Core)	m	15.31	435.28	16.84	436.81

Sr. No.	Description	Unit	Plains		Sub Mountainous	
			Labour Rate	Through Rate	Labour Rate	Through Rate
1	2	3	4	5	6	7
	(xvi) Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 120sq.mm (Three Core)	m	22.96	549.47	25.26	551.77
	(xvii) Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 150sq.mm (Three Core)	m	30.62	653.10	33.68	656.16
	(xviii) Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 185sq.mm (Three Core)	m	30.62	772.12	33.68	775.18
	(xix) Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 240sq.mm (Three Core)	m	30.62	967.46	33.68	970.52
	(xx) Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 300sq.mm (Three Core)	m	30.62	1161.50	33.68	1164.56
	(xxi) Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 400sq.mm (Three Core)	m	30.62	1431.79	33.68	1434.85
	(xxii) Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 25sq.mm (3 ½ Core)	m	10.21	217.75	11.23	218.77
	(xxiii) Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 35sq.mm (3 ½ Core)	m	10.21	260.02	11.23	261.04
	(xxiv) Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 50sq.mm (3 ½ Core)	m	10.21	324.86	11.23	325.88
	(xxv) Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 70sq.mm (3 ½ Core)	m	15.31	412.31	16.84	413.84
	(xxvi) Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 95sq.mm (3 ½ Core)	m	15.31	492.27	16.84	493.80
	(xxvii) Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 120sq.mm (3 ½ Core)	m	22.96	613.33	25.26	615.63
	(xxviii) Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 150sq.mm (3 ½ Core)	m	30.62	733.79	33.68	736.85
	(xxix) Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 185sq.mm (3 ½ Core)	m	30.62	884.02	33.68	887.08

Sr. No.	Description		Unit	Plains		Sub Mountainous	
				Labour Rate	Through Rate	Labour Rate	Through Rate
1	2		3	4	5	6	7
	(xxx)	Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 240sq.mm (3 ½ Core)	m	30.62	1101.43	33.68	1104.49
	(xxxi)	Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 300sq.mm (3 ½ Core)	m	30.62	1324.72	33.68	1327.78
	(xxxii)	Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 400sq.mm (3 ½ Core)	m	30.62	1639.15	33.68	1642.21
	(xxxiii)	Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 6sq.mm (4 Core)	m	10.21	151.85	11.23	152.87
	(xxxiv)	Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 10sq.mm (4 Core)	m	10.21	157.72	11.23	158.74
	(xxxv)	Aluminium conductor XLPE/ PVC insulated PVC sheathed armoured and served cable working voltage 1100volts grade 16sq.mm (4 Core)	m	10.21	185.79	11.23	61.00
<b>33.11</b>	<b>HEAVY GAUGE WELDED CONDUIT PIPES:</b>						
	<b>Supply &amp; erection of pipe for wiring purposes including bends, inspection boxes etc., where necessary including painting as per PWD General Specifications 2010:-</b>						
	(i)	Heavy gauge welded conduit pipe 20mm dia. (ISI marked 1.60mm thick) On Surface	m	4.08	68.44	4.49	68.85
	(ii)	Heavy gauge welded conduit pipe 25mm dia. (ISI marked 1.60mm thick) On Surface	m	4.08	84.32	4.49	84.73
	(iii)	Heavy gauge welded conduit pipe 32mm dia. (ISI marked 1.60mm thick) On Surface	m	6.12	121.60	6.73	122.21
	(iv)	Heavy gauge welded conduit pipe 40mm dia. (ISI marked 2mm thick) On Surface	m	6.12	197.39	6.73	198.00
	(v)	Heavy gauge welded conduit pipe 50mm dia. (ISI marked 2mm thick) On Surface	m	6.12	334.13	6.73	334.74
	(vi)	Heavy gauge welded conduit pipe 20mm dia. (ISI marked 1.60mm thick) Flushed	m	15.07	80.71	16.58	82.22
	(vii)	Heavy gauge welded conduit pipe 25mm dia. (ISI marked 1.60mm thick) Flushed	m	15.07	95.46	16.58	96.97
	(viii)	Heavy gauge welded conduit pipe 32mm dia. (ISI marked 1.60mm thick) Flushed	m	17.27	133.00	19.00	134.73
	(ix)	Heavy gauge welded conduit pipe 40mm dia. (ISI marked 2mm thick) Flushed	m	17.27	209.44	19.00	211.17
	(x)	Heavy gauge welded conduit pipe 50mm dia. (ISI marked 2mm thick) Flushed	m	17.27	346.83	19.00	348.56



Sr. No.	Description		Unit	Plains		Sub Mountainous	
				Labour Rate	Through Rate	Labour Rate	Through Rate
1	2		3	4	5	6	7
	(xi)	Supply and erection of 20mm dia. heavy gauge welded conduit pipe (1.60mm thick) suspension rod for ceiling fan complete in all respect as desired by the Engineer-in-charge.	m	11.12	80.98	12.23	82.09
<b>33.12</b>	<b>PVC, HDPE PIPES &amp; PVC FLEXIBLE PIPES:</b>						
	<b>Supply &amp; erection of PVC pipes &amp; HDPE pipes (fire retardant) for wiring purposes including bends, inspection boxes etc., where necessary including other petty material as per PWD General Specifications 2010:-</b>						
	(i)	Heavy gauge PVC conduit pipe 20mm dia. (ISI marked 2mm thick) On Surface	m	3.06	27.48	3.37	27.79
	(ii)	Heavy gauge PVC conduit pipe 25mm dia. (ISI marked 2mm thick) On Surface	m	3.06	35.26	3.37	35.57
	(iii)	Heavy gauge PVC conduit pipe 32mm dia. (ISI marked 2mm thick) On Surface	m	4.59	53.28	5.05	53.74
	(iv)	Heavy gauge PVC conduit pipe 40mm dia. (ISI marked 2mm thick) On Surface	m	4.59	69.71	5.05	70.17
	(v)	Heavy gauge PVC conduit pipe 50mm dia. (ISI marked 2mm thick) On Surface	m	4.59	93.83	5.05	94.29
	(vi)	Heavy gauge PVC conduit pipe 20mm dia. (ISI marked 2mm thick) Flushed	m	6.59	32.29	7.25	32.95
	(vii)	Heavy gauge PVC conduit pipe 25mm dia. (ISI marked 2mm thick) Flushed	m	6.59	38.95	7.25	39.61
	(viii)	Heavy gauge PVC conduit pipe 32mm dia. (ISI marked 2mm thick) Flushed	m	7.77	56.70	8.55	57.48
	(ix)	Heavy gauge PVC conduit pipe 40mm dia. (ISI marked 2mm thick) Flushed	m	7.77	73.78	8.55	74.56
	(x)	Heavy gauge PVC conduit pipe 50mm dia. (ISI marked 2mm thick) Flushed	m	7.77	98.56	8.55	99.34
	(xi)	HDPE electrical conduit pipe 20mm dia. (ISI marked) On Surface	m	3.06	65.96	3.37	66.27
	(xii)	HDPE electrical conduit pipe 25mm dia. (ISI marked) On Surface	m	3.06	83.31	3.37	83.62
	(xiii)	HDPE electrical conduit pipe 32mm dia. (ISI marked) On Surface	m	4.59	122.17	5.05	122.63
	(xiv)	HDPE electrical conduit pipe 40mm dia. (ISI marked) On Surface	m	4.59	163.58	5.05	164.04
	(xv)	HDPE electrical conduit pipe 20mm dia. (ISI marked) Flushed	m	10.99	75.17	12.09	76.27
	(xvi)	HDPE electrical conduit pipe 25mm dia. (ISI marked) Flushed	m	10.99	91.40	12.09	92.50
	(xvii)	HDPE electrical conduit pipe 32mm dia. (ISI marked) Flushed	m	12.17	130.00	13.39	131.22
	(xviii)	HDPE electrical conduit pipe 40mm dia. (ISI marked) Flushed	m	12.17	172.06	13.39	173.28

Sr. No.	Description		Unit	Plains		Sub Mountainous	
				Labour Rate	Through Rate	Labour Rate	Through Rate
1	2		3	4	5	6	7
	(xix)	<b>Supply and erection of PVC flexible pipe complete with compression glands, having locking arrangement, check-nuts as required :-</b>					
	(a)	PVC flexible pipe 20mm dia.	m	4.07	31.30	4.48	31.71
	(b)	PVC flexible pipe 25mm dia.	m	4.07	37.22	4.48	37.63
	(c)	PVC flexible pipe 32mm dia.	m	4.07	58.54	4.48	58.95
	(d)	PVC flexible pipe 40mm dia.	m	4.07	71.55	4.48	71.96
	(xx)	<b>Supply and erection of PVC flexible pipe complete without compression glands, locking arrangement, check-nuts as required :-</b>					
	(a)	PVC flexible pipe 20mm dia.	m	2.05	10.34	2.26	10.55
	(b)	PVC flexible pipe 25mm dia.	m	2.05	11.51	2.26	11.72
	(c)	PVC flexible pipe 32mm dia.	m	2.05	16.26	2.26	16.47
	(d)	PVC flexible pipe 40mm dia.	m	2.05	22.18	2.26	22.39
<b>33.13</b>	<b>GALVANIZED IRON PIPES AND G.I. EARTHING:</b>						
		<b>Supply &amp; erection of G.I. pipe for wiring purposes including bends, inspection boxes etc., where necessary including painting as per PWD General Specifications 2010:-</b>					
	(i)	Galvanized iron pipe 15mm dia. (A class) Flushed	m	15.07	98.21	16.58	99.72
	(ii)	Galvanized iron pipe 20mm dia. (A class) Flushed	m	15.07	129.48	16.58	130.99
	(iii)	Galvanized iron pipe 25mm dia. (A class) Flushed	m	15.07	168.67	16.58	170.18
	(iv)	Galvanized iron pipe 32mm dia. (A class) Flushed	m	17.27	221.54	19.00	223.27
	(v)	Galvanized iron pipe 40mm dia. (A class) Flushed	m	17.27	262.25	19.00	263.98
	(vi)	Galvanized iron pipe 50mm dia. (A class) Flushed	m	17.27	323.90	19.00	325.63
	(vii)	<b>G.I. EARTHING:</b>					
	(a)	Earthing of Sheet metal/ iron clad Switches and metallic cases etc., with No. 8 S.W.G. (4mm dia.) G.I. wire in 15mm dia G.I. pipe partly recessed and partly on surface complete with 135cm long 50mm dia. G.I. earth pipe with G.I. reducing socket (50mm x 15mm) including erection of the same, 10 metre below ground level with necessary charcoal & salt mixture etc., up to 13 metre in length (including boring & refilling).	each	1367.45	3198.00	1504.20	3334.75
	(b)	Earthing of Sheet metal/ iron clad Switches and metallic cases etc., with No. 7/14 S.W.G. (7/2.18mm dia.) G.I. wire in 20mm dia G.I. pipe partly recessed and partly on surface complete with 135cm long 50mm dia. G.I. earth pipe with G.I. reducing socket (50mm x 20mm) including erection of the same, 10 metre below ground level with necessary charcoal & salt mixture etc., up to 13 metre in length (including boring & refilling).	each	1367.45	3702.67	1504.20	3839.42

Sr. No.	Description	Unit	Plains		Sub Mountainous	
			Labour Rate	Through Rate	Labour Rate	Through Rate
1	2	3	4	5	6	7
	(c) Earthing of Sheet metal/ iron clad Switches and metallic cases etc., with No. 7/12 S.W.G. (7/2.80mm dia.) G.I. wire in 20mm dia G.I. pipe partly recessed and partly on surface complete with 135cm long 50mm dia. G.I. earth pipe with G.I. reducing socket (50mm x 20mm) including erection of the same, 10 metre below ground level with necessary charcoal & salt mixture etc., up to 13 metre in length (including boring & refilling).	each	1367.45	3764.32	1504.20	3901.07
	(d) Supply and Erection of earth rod 20 mm dia for providing earth connections upto line earth with G.I. Wire No. 8SWG. The rod shall be tapered at one end and flatted on other end. The hole size 10mm dia shall be drilled on the flatened side for facilitating connection with G.I. wire and thimble etc. The road shall be grouted upto complete length vertically.					
	(i) GI Earth rod 20 mm dia. 3 mtr. Long	m	122.48	632.40	134.73	644.65
	(ii) GI Earth rod 20 mm dia. 4.5 mtr. Long	m	163.30	868.51	179.63	884.84
	(iii) GI Earth rod 20 mm dia. 6 mtr. Long	m	183.71	1051.66	202.08	1070.03
	<b>(viii) G.I. EARTHING (AS ADDITIONAL LENGTH):</b>					
	(a) Earthing of metallic cases etc., with G.I. wire No. 8 S.W.G. (4mm dia.) in 15mm dia. G.I. pipe on surface including painting etc. (as additional length)	m	7.53	100.24	8.28	100.99
	(b) Earthing of metallic cases etc., with G.I. wire No. 7/14 S.W.G. (7/2.18mm dia.) in 20mm dia. G.I. pipe on surface including painting etc. (as additional length)	m	7.53	139.56	8.28	140.31
	(c) Earthing of metallic cases etc., with G.I. wire No. 7/12 S.W.G. (7/2.80mm dia.) in 20mm dia. G.I. pipe on surface including painting etc. (as additional length)	m	7.53	148.37	8.28	149.12
	(d) Earthing of metallic cases etc., with G.I. wire No. 8 S.W.G. (4mm dia.) in 15mm dia. G.I. pipe recessed in wall and floor etc., (as additional length)	m	23.72	115.70	26.09	118.07
	(e) Earthing of metallic cases etc., with G.I. stranded wire No. 7/14 S.W.G. (7/2.18mm ) in 20mm dia. G.I. pipe recessed in wall and floor etc. (as additional length)	m	23.72	153.52	26.09	155.89
	(f) Earthing of metallic cases etc., with G.I. stranded wire No. 7/12 S.W.G. (7/2.80mm ) in 20mm dia. G.I. pipe recessed in wall and floor etc. (as additional length)	m	23.72	154.80	26.09	157.17
	<b>(viii) BONDING TO EARTH WITH G.I. WIRE:</b>					
	(a) Bonding to earth with G.I. wire No. 8S.W.G. (4mm dia) in 20mm dia. heavy gauge (1.6 mm thick) welded conduit pipe (on surface) including painting etc.	m	4.09	73.10	4.50	73.51
	(b) Bonding to earth with G.I. wire No. 7/14S.W.G. (7/2.18mm dia) in 20mm dia. heavy gauge (1.6mm thick) welded conduit pipe (on surface) including painting etc.	m	4.09	82.17	4.50	82.58
	(c) Bonding to earth with G.I. wire No. 7/12S.W.G. (7/2.80mm dia) in 25mm dia. heavy gauge (1.6mm thick) welded conduit pipe (on surface) including painting etc.	m	4.09	102.15	4.50	102.56

Sr. No.	Description		Unit	Plains		Sub Mountainous	
				Labour Rate	Through Rate	Labour Rate	Through Rate
1	2		3	4	5	6	7
	(d)	Bonding to earth with G.I. wire No. 8S.W.G. (4mm dia) in 20mm dia. heavy gauge (1.6 mm thick) welded conduit pipe (flushed).	m	24.53	92.58	26.98	95.03
	(e)	Bonding to earth with G.I. wire No. 7/14S.W.G. (7/2.18mm dia) in 20mm dia. heavy gauge (1.6 mm thick) welded conduit pipe (flushed).	m	24.53	101.64	26.98	104.09
	(f)	Bonding to earth with G.I. wire No. 7/12S.W.G. (7/2.80mm dia) in 25mm dia. heavy gauge (1.6 mm thick) welded conduit pipe (flushed).	m	24.53	144.56	26.98	147.01
	(g)	Bonding to earth with 4mm dia. G.I. wire behind casing or fixed with stapples on wall.	m	1.83	9.81	2.01	9.99
<b>33.14</b>	<b>COPPER EARTHING:</b>						
	(i)	Earthing of Sheet metal/ iron clad switches and metallic cases etc., with 20 mm x 3 mm thick electrolytic copper tape rivetted (with 10 nos. copper rivets) to 30 cm x 120 cm x 3 mm thick tinned copper plate (made cylindrical) burried 10 metre below ground level in the hole of excavation having bore dia. 125mm and surrounded by salt & charcoal dust mixture (20 kg.) including fixing the copper tape on wall and in floor etc., up to 13 metre in length (including bore length). G.I. pipe 20mm dia. (A-class) should be laid in the hole of excavation from bore surface level to 1 feet below ground level and having wire mesh funnel fixed on the top level of the pipe. 300mm x 300mm x 300mm deep haudi of bricks finished with 1:4 cement plaster and haudi covered with cast iron lid having size 300mm x 300mm around the hole of excavation.	each	1058.14	13791.75	1163.95	13897.56
	(ii)	Earthing of Sheet metal/ iron clad switches and metallic cases etc., with 20 mm x 3 mm thick electrolytic copper tape rivetted (with 10 nos. copper rivets) to 30 cm x 120 cm x 3 mm thick tinned copper plate (made cylindrical) burried 20 metre below ground level in the hole of excavation having bore dia. 125mm and surrounded by salt & charcoal dust mixture (20 kg.) including fixing the copper tape on wall and in floor etc., up to 23 metre in length (including bore length). G.I. pipe 20mm dia. (A-class) should be laid in the hole of excavation from bore surface level to 1 feet below ground level and having wire mesh funnel fixed on the top level of the pipe. 300mm x 300mm x 300mm deep haudi of bricks finished with 1:4 cement plaster and haudi covered with cast iron lid having size 300mm x 300mm around the hole of excavation.	each	1987.52	18743.53	2186.27	18942.28

Sr. No.	Description	Unit	Plains		Sub Mountainous	
			Labour Rate	Through Rate	Labour Rate	Through Rate
1	2	3	4	5	6	7
	(iii) Earthing of Sheet metal/ iron clad switches and metallic cases etc., with 25 mm x 3 mm thick electrolytic copper tape rivetted (with 10 nos. copper rivets) to 30 cm x 120 cm x 3 mm thick tinned copper plate (made cylindrical) burried 10 metre below ground level in the hole of excavation having bore dia. 125mm and surrounded by salt & charcoal dust mixture (20 kg.) including fixing the copper tape on wall and in floor etc., up to 13 metre in length (including bore length). G.I. pipe 20mm dia. (A-class) should be laid in the hole of excavation from bore surface level to 1 feet below ground level and having wire mesh funnel fixed on the top level of the pipe. 300mm x 300mm x 300mm deep haudi of bricks finished with 1:4 cement plaster and haudi covered with cast iron lid having size 300mm x 300mm around the hole of excavation.	each	1058.14	14771.31	1163.95	14877.12
	(iv) Earthing of Sheet metal/ iron clad switches and metallic cases etc., with 25 mm x 3 mm thick electrolytic copper tape rivetted (with 10 nos. copper rivets) to 30 cm x 120 cm x 3 mm thick tinned copper plate (made cylindrical) burried 20 metre below ground level in the hole of excavation having bore dia. 125mm and surrounded by salt & charcoal dust mixture (20 kg.) including fixing the copper tape on wall and in floor etc., up to 23 metre in length (including bore length). G.I. pipe 20mm dia. (A-class) should be laid in the hole of excavation from bore surface level to 1 feet below ground level and having wire mesh funnel fixed on the top level of the pipe. 300mm x 300mm x 300mm deep haudi of bricks finished with 1:4 cement plaster and haudi covered with cast iron lid having size 300mm x 300mm around the hole of excavation.	each	1987.52	20476.60	2186.27	20675.35
	(v) Earthing of Sheet metal/ iron clad switches and metallic cases etc., with 30 mm x 3 mm thick electrolytic copper tape rivetted (with 10 nos. copper rivets) to 30 cm x 120 cm x 3 mm thick tinned copper plate (made cylindrical) burried 10 metre below ground level in the hole of excavation having bore dia. 125mm and surrounded by salt & charcoal dust mixture (20 kg.) including fixing the copper tape on wall and in floor etc., up to 13 metre in length (including bore length). G.I. pipe 20mm dia. (A-class) should be laid in the hole of excavation from bore surface level to 1 feet below ground level and having wire mesh funnel fixed on the top level of the pipe. 300mm x 300mm x 300mm deep haudi of bricks finished with 1:4 cement plaster and haudi covered with cast iron lid having size 300mm x 300mm around the hole of excavation.	each	1058.14	15743.56	1163.95	15849.37

Sr. No.	Description		Unit	Plains		Sub Mountainous	
				Labour Rate	Through Rate	Labour Rate	Through Rate
1	2		3	4	5	6	7
	(vi)	Earthing of Sheet metal/ iron clad switches and metallic cases etc., with 30 mm x 3 mm thick electrolytic copper tape rivetted (with 10 nos. copper rivets) to 30 cm x 120 cm x 3 mm thick tinned copper plate (made cylindrical) burried 20 metre below ground level in the hole of excavation having bore dia. 125mm and surrounded by salt & charcoal dust mixture (20 kg.) including fixing the copper tape on wall and in floor etc., up to 23 metre in length (including bore length). G.I. pipe 20mm dia. (A-class) should be laid in the hole of excavation from bore surface level to 1 feet below ground level and having wire mesh funnel fixed on the top level of the pipe. 300mm x 300mm x 300mm deep haudi of bricks finished with 1:4 cement plaster and haudi covered with cast iron lid having size 300mm x 300mm around the hole of excavation.	each	1987.52	22196.75	2186.27	22395.50
	(vii)	Earthing of Sheet metal/ iron clad switches and metallic cases etc., with 25 mm x 5 mm thick electrolytic copper tape rivetted (with 10 nos. copper rivets) to 30 cm x 120 cm x 3 mm thick tinned copper plate (made cylindrical) burried 10 metre below ground level in the hole of excavation having bore dia. 125mm and surrounded by salt & charcoal dust mixture (20 kg.) including fixing the copper tape on wall and in floor etc., up to 13 metre in length (including bore length). G.I. pipe 20mm dia. (A-class) should be laid in the hole of excavation from bore surface level to 1 feet below ground level and having wire mesh funnel fixed on the top level of the pipe. 300mm x 300mm x 300mm deep haudi of bricks finished with 1:4 cement plaster and haudi covered with cast iron lid having size 300mm x 300mm around the hole of excavation.	each	1058.14	18038.98	1163.95	18144.79
	(viii)	Earthing of Sheet metal/ iron clad switches and metallic cases etc., with 25 mm x 5 mm thick electrolytic copper tape rivetted (with 10 nos. copper rivets) to 30 cm x 120 cm x 3 mm thick tinned copper plate (made cylindrical) burried 20 metre below ground level in the hole of excavation having bore dia. 125mm and surrounded by salt & charcoal dust mixture (20 kg.) including fixing the copper tape on wall and in floor etc., up to 23 metre in length (including bore length). G.I. pipe 20mm dia. (A-class) should be laid in the hole of excavation from bore surface level to 1 feet below ground level and having wire mesh funnel fixed on the top level of the pipe. 300mm x 300mm x 300mm deep haudi of bricks finished with 1:4 cement plaster and haudi covered with cast iron lid having size 300mm x 300mm around the hole of excavation.	each	1987.52	26257.85	2186.27	26456.60

Sr. No.	Description	Unit	Plains		Sub Mountainous	
			Labour Rate	Through Rate	Labour Rate	Through Rate
1	2	3	4	5	6	7
(ix)	Earthing of Sheet metal/ iron clad switches and metallic cases etc., with 40 mm x 5 mm thick electrolytic copper tape rivetted (with 10 nos. copper rivets) to 30 cm x 120 cm x 3 mm thick tinned copper plate (made cylindrical) burried 10 metre below ground level in the hole of excavation having bore dia. 125mm and surrounded by salt & charcoal dust mixture (20 kg.) including fixing the copper tape on wall and in floor etc., up to 13 metre in length (including bore length). G.I. pipe 20mm dia. (A-class) should be laid in the hole of excavation from bore surface level to 1 feet below ground level and having wire mesh funnel fixed on the top level of the pipe. 300mm x 300mm x 300mm deep haudi of bricks finished with 1:4 cement plaster and haudi covered with cast iron lid having size 300mm x 300mm around the hole of excavation.	each	1058.14	21176.72	1163.95	21282.53
(x)	Earthing of Sheet metal/ iron clad switches and metallic cases etc., with 40 mm x 5 mm thick electrolytic copper tape rivetted (with 10 nos. copper rivets) to 30 cm x 120 cm x 3 mm thick tinned copper plate (made cylindrical) burried 20 metre below ground level in the hole of excavation having bore dia. 125mm and surrounded by salt & charcoal dust mixture (20 kg.) including fixing the copper tape on wall and in floor etc., up to 23 metre in length (including bore length). G.I. pipe 20mm dia. (A-class) should be laid in the hole of excavation from bore surface level to 1 feet below ground level and having wire mesh funnel fixed on the top level of the pipe. 300mm x 300mm x 300mm deep haudi of bricks finished with 1:4 cement plaster and haudi covered with cast iron lid having size 300mm x 300mm around the hole of excavation.	each	1987.52	34793.91	2186.27	34992.66
(xi)	Earthing of Sheet metal/ iron clad switches and metallic cases etc., with 8 SWG (4mm dia.) electrolytic copper wire thimble (with 1 nos. copper thimble) to 30 cm x 60 cm x 3 mm thick tinned copper plate (made cylindrical) burried 10 metre below ground level in the hole of excavation having bore dia. 125mm and surrounded by salt & charcoal dust mixture (20 kg.) including fixing the copper wire run through 20mm dia. G.I. pipe (A-Class) on wall and in floor etc., up to 13 metre in length (including bore length). G.I. pipe 20mm dia. (A-class) should be laid in the hole of excavation from bore surface level to 1 feet below ground level and having wire mesh funnel fixed on the top level of the pipe. 300mm x 300mm x 300mm deep haudi of bricks finished with 1:4 cement plaster and haudi covered with cast iron lid having size 300mm x 300mm around the hole of excavation.	each	1058.14	7665.04	1163.95	7770.85

Sr. No.	Description		Unit	Plains		Sub Mountainous	
				Labour Rate	Through Rate	Labour Rate	Through Rate
1	2		3	4	5	6	7
	(xii)	Earthing of Sheet metal/ iron clad switches and metallic cases etc., with 8 SWG (4mm dia.) electrolytic copper wire thimble (with 1 nos. copper thimble) to 30 cm x 60 cm x 3 mm thick tinned copper plate (made cylindrical) buried 20 metre below ground level in the hole of excavation having bore dia. 125mm and surrounded by salt & charcoal dust mixture (20 kg.) including fixing the copper wire run through 20mm dia. G.I. pipe (A-Class) on wall and in floor etc., up to 23 metre in length (including bore length). G.I. pipe 20mm dia. (A-class) should be laid in the hole of excavation from bore surface level to 1 feet below ground level and having wire mesh funnel fixed on the top level of the pipe. 300mm x 300mm x 300mm deep haudi of bricks finished with 1:4 cement plaster and haudi covered with cast iron lid having size 300mm x 300mm around the hole of excavation.	each	1058.14	9047.92	1163.95	9153.73
	(xiii)	Supply and Erection of 20mm x 3mm thick copper tape (As additional length).	m	22.45	327.18	24.70	329.43
	(xiv)	Supply and Erection of 25mm x 3mm thick copper tape (As additional length).	m	22.45	402.52	24.70	404.77
	(xv)	Supply and Erection of 30mm x 3mm thick copper tape (As additional length).	m	22.45	477.30	24.70	479.55
	(xvi)	Supply and Erection of 25mm x 5mm thick copper tape (As additional length).	m	22.45	653.87	24.70	656.12
	(xvii)	Supply and Erection of 40mm x 5mm thick copper tape (As additional length).	m	22.45	1025.01	24.70	1027.26
	(xviii)	Supply and Erection of 8 SWG 4mm dia copper wire run through 20mm dia. GI pipe (A-Class) (As additional length).	m	22.45	192.34	24.70	194.59
	(xix)	Supply and Erection of 8 SWG 4mm dia copper wire run through 20mm dia. Heavy guage welded conduit pipe (As additional length).	m	22.45	144.41	24.70	146.66
<b>33.15</b>	<b>SUPPLY AND ERECTION OF WIRING ACCESSORIES:</b>						
	<b>Supply and erection of switches, sockets, power switch and sockets and other accessories (flush piano type/ modular accessories) in the existing bakelite/ modular cover frame including connections and petty material etc.</b>						
	(i)	Single pole 6amp. switch flush piano type	each	5.10	19.85	5.61	20.36
	(ii)	Two way 6amp. switch flush piano type	each	5.10	23.87	5.61	24.38
	(iii)	Single pole 16amp. switch flush piano type	each	10.20	54.85	11.22	55.87
	(iv)	Single pole 6amp. bell push	each	5.10	23.87	5.61	24.38
	(v)	3pin 6amp. wall socket flush piano type	each	6.80	28.09	7.48	28.77
	(vi)	3pin 16amp. wall socket flush piano type	each	10.20	64.71	11.22	65.73
	(vii)	Step type fan regulator (socket size)	each	6.80	189.96	7.48	190.64
	(viii)	TV socket flush piano type (switch size)	each	5.10	28.33	5.61	28.84
	(ix)	Telephone socket RJ11 flush piano type (switch size)	each	5.10	36.50	5.61	37.01
	(x)	RJ45 flush piano type modem jack for computer with shutter (switch size)	each	5.10	89.08	5.61	89.59
	(xi)	6amp. one way modular switch (one module)	each	5.10	68.98	5.61	69.49



Sr. No.	Description		Unit	Plains		Sub Mountainous	
				Labour Rate	Through Rate	Labour Rate	Through Rate
1	2		3	4	5	6	7
	(xii)	6amp. two way modular switch (one module)	each	5.10	82.32	5.61	82.83
	(xiii)	16/20amp. one way modular switch (one module)	each	10.20	105.68	11.22	106.70
	(xiv)	6amp. one way modular bell push (one module)	each	5.10	81.62	5.61	82.13
	(xv)	6amp. 3pin modular socket with shuttered (two module)	each	6.80	105.09	7.48	105.77
	(xvi)	16/20amp. 3pin modular socket with shuttered (two module)	each	10.20	153.42	11.22	154.44
	(xvii)	Step type modular electronic fan regulator 100watts (two module)	each	6.80	342.36	7.48	343.04
	(xviii)	Modular TV socket (one module)	each	5.10	72.50	5.61	73.01
	(xix)	Modular Telephone socket (RJ-11) one module	each	5.10	85.84	5.61	86.35
	(xx)	RJ45 modular type modem jack for computer one module	each	5.10	302.76	5.61	303.27
	(xxi)	Ceiling rose (flush piano type)	each	5.10	26.54	5.61	27.05
	(xxii)	Bakelite batten holder large size	each	5.10	26.53	5.61	27.04
	(xxiii)	Call bell 220/230 volts AC ding dong	each	5.10	89.98	5.61	90.49
<b>33.16</b>	<b>MINIATURE CIRCUIT BREAKERS/ RCBO's/ RCCB's:</b>						
	<b>Supply and erection of Miniature Circuit Breakers/ RCBO's/ RCCB's in the existing MCB distribution board as per PWD General Specifications 2010 including connections with suitable size of thimbles/lugs.</b>						
	<b>GROUP-A: (Siemens (Beta Guard), Legrand (Lexic) &amp; Schneider (Neo Break), L&amp;T (Hager)</b>						
	(i)	Miniature circuit breaker single pole 0.5 to 4amp. (Breaking capacity 10kA, Curve-C) suitable for 240/ 415 volts 50cycles AC supply	each	6.73	231.37	7.40	232.04
	(ii)	Miniature circuit breaker single pole 6 to 32amp. (Breaking capacity 10kA, Curve-C) suitable for 240/ 415 volts 50cycles AC supply	each	6.73	165.01	7.40	165.68
	(iii)	Miniature circuit breaker single pole 40amp. (Breaking capacity 10kA, Curve-C) suitable for 240/ 415 volts 50cycles AC supply	each	6.73	343.70	7.40	344.37
	(iv)	Miniature circuit breaker single pole 50, 63amp. (Breaking capacity 10kA, Curve-C) suitable for 240/ 415 volts 50cycles AC supply	each	6.73	389.65	7.40	390.32
	(v)	Miniature circuit breaker double pole 0.5 to 4amp. (Breaking capacity 10kA, Curve-C) suitable for 240/ 415 volts 50cycles AC supply	each	10.20	612.67	11.22	613.69
	(vi)	Miniature circuit breaker double pole 6 to 32amp. (Breaking capacity 10kA, Curve-C) suitable for 240/ 415 volts 50cycles AC supply	each	10.20	490.13	11.22	491.15
	(vii)	Miniature circuit breaker double pole 40amp. (Breaking capacity 10kA, Curve-C) suitable for 240/ 415 volts 50cycles AC supply	each	10.20	694.35	11.22	695.37
	(viii)	Miniature circuit breaker double pole 50, 63amp. (Breaking capacity 10kA, Curve-C)suitable for 240/ 415 volts 50cycles AC supply	each	10.20	811.78	11.22	812.80

Sr. No.	Description		Unit	Plains		Sub Mountainous	
				Labour Rate	Through Rate	Labour Rate	Through Rate
1	2		3	4	5	6	7
	(ix)	Miniature circuit breaker triple pole 0.5 to 4amp. (Breaking capacity 10kA, Curve-C) suitable for 240/ 415 volts 50cycles AC supply	each	13.68	820.37	15.05	821.74
	(x)	Miniature circuit breaker triple pole 6 to 32amp. (Breaking capacity 10kA, Curve-C) suitable for 240/ 415 volts 50cycles AC supply	each	13.68	733.58	15.05	734.95
	(xi)	Miniature circuit breaker triple pole 40amp. (Breaking capacity 10kA, Curve-C) suitable for 240/ 415 volts 50cycles AC supply	each	13.68	1029.69	15.05	1031.06
	(xii)	Miniature circuit breaker triple pole 50, 63amp. (Breaking capacity 10kA, Curve-C) suitable for 240/ 415 volts 50cycles AC supply	each	13.68	1152.23	15.05	1153.60
	(xiii)	Miniature circuit breaker four pole 0.5 to 4amp. (Breaking capacity 10kA, Curve-C) suitable for 240/ 415 volts 50cycles AC supply	each	20.41	1230.43	22.45	1232.47
	(xiv)	Miniature circuit breaker four pole 6 to 32amp. (Breaking capacity 10kA, Curve-C) suitable for 240/ 415 volts 50cycles AC supply	each	20.41	1051.74	22.45	1053.78
	(xv)	Miniature circuit breaker four pole 40amp. (Breaking capacity 10kA, Curve-C) suitable for 240/ 415 volts 50cycles AC supply	each	20.41	1398.93	22.45	1400.97
	(xvi)	Miniature circuit breaker four pole 50, 63amp. (Breaking capacity 10kA, Curve-C) suitable for 240/ 415 volts 50cycles AC supply	each	20.41	1546.98	22.45	1549.02
		<b>GROUP-B: (Havell's, HPL, ABB, Indo Asian &amp; other brands approved by PWD)</b>					
	(xvii)	Miniature circuit breaker single pole 0.5 to 4amp. (Breaking capacity 10kA, Curve-C) suitable for 240/ 415 volts 50cycles AC supply	each	6.73	179.09	7.40	179.76
	(xviii)	Miniature circuit breaker single pole 6 to 32amp. (Breaking capacity 10kA, Curve-C) suitable for 240/ 415 volts 50cycles AC supply	each	6.73	125.46	7.40	126.13
	(xix)	Miniature circuit breaker single pole 40amp. (Breaking capacity 10kA, Curve-C) suitable for 240/ 415 volts 50cycles AC supply	each	6.73	261.79	7.40	262.46
	(xx)	Miniature circuit breaker single pole 50, 63amp. (Breaking capacity 10kA, Curve-C) suitable for 240/ 415 volts 50cycles AC supply	each	6.73	282.44	7.40	283.11
	(xxi)	Miniature circuit breaker double pole 0.5 to 4amp. (Breaking capacity 10kA, Curve-C) suitable for 240/ 415 volts 50cycles AC supply	each	10.20	485.75	11.22	486.77
	(xxii)	Miniature circuit breaker double pole 6 to 32amp. (Breaking capacity 10kA, Curve-C) suitable for 240/ 415 volts 50cycles AC supply	each	10.20	393.17	11.22	394.19
	(xxiii)	Miniature circuit breaker double pole 40amp. (Breaking capacity 10kA, Curve-C) suitable for 240/ 415 volts 50cycles AC supply	each	10.20	547.80	11.22	548.82

Sr. No.	Description		Unit	Plains		Sub Mountainous	
				Labour Rate	Through Rate	Labour Rate	Through Rate
1	2		3	4	5	6	7
	(xxiv)	Miniature circuit breaker double pole 50, 63amp. (Breaking capacity 10kA, Curve-C)suitable for 240/ 415 volts 50cycles AC supply	each	10.20	616.71	11.22	617.73
	(xxv)	Miniature circuit breaker triple pole 0.5 to 4amp. (Breaking capacity 10kA, Curve-C) suitable for 240/ 415 volts 50cycles AC supply	each	13.68	668.43	15.05	669.80
	(xxvi)	Miniature circuit breaker triple pole 6 to 32amp. (Breaking capacity 10kA, Curve-C) suitable for 240/ 415 volts 50cycles AC supply	each	13.68	591.91	15.05	593.28
	(xxvii)	Miniature circuit breaker triple pole 40amp. (Breaking capacity 10kA, Curve-C) suitable for 240/ 415 volts 50cycles AC supply	each	13.68	785.69	15.05	787.06
	(xxviii)	Miniature circuit breaker triple pole 50, 63amp. (Breaking capacity 10kA, Curve-C) suitable for 240/ 415 volts 50cycles AC supply	each	13.68	916.65	15.05	918.02
	(xxix)	Miniature circuit breaker four pole 0.5 to 4amp. (Breaking capacity 10kA, Curve-C) suitable for 240/ 415 volts 50cycles AC supply	each	20.41	937.18	22.45	939.22
	(xxx)	Miniature circuit breaker four pole 6 to 32amp. (Breaking capacity 10kA, Curve-C) suitable for 240/ 415 volts 50cycles AC supply	each	20.41	806.11	22.45	808.15
	(xxxi)	Miniature circuit breaker four pole 40amp. (Breaking capacity 10kA, Curve-C) suitable for 240/ 415 volts 50cycles AC supply	each	20.41	1061.17	22.45	1063.21
	(xxxii)	Miniature circuit breaker four pole 50, 63amp. (Breaking capacity 10kA, Curve-C) suitable for 240/ 415 volts 50cycles AC supply	each	20.41	1205.93	22.45	1207.97
		<b>RCBO'S:</b>					
	(xxxiii)	RCBO (Earth leakage, overload and short circuit protection device) double pole 16/25amp., sensitivity 30mA (Breaking capacity 10kA and as per standard IEC 61009) suitable for 240/415 volts 50 cycles AC supply	each	10.20	1888.56	11.22	1889.58
	(xxxiv)	RCBO (Earth leakage, overload and short circuit protection device) double pole 32amp., sensitivity 30mA (Breaking capacity 10kA and as per standard IEC 61009) suitable for 240/415 volts 50 cycles AC supply	each	10.20	2079.37	11.22	2080.39
	(xxxv)	RCBO (Earth leakage, overload and short circuit protection device) double pole 40amp., sensitivity 30mA (Breaking capacity 10kA and as per standard IEC61009) suitable for 240/415 volts 50 cycles AC supply	each	10.20	2413.76	11.22	2414.78
	(xxxvi)	RCBO (Earth leakage, overload and short circuit protection device) double pole 63amp., sensitivity 30mA (Breaking capacity 10kA and as per standard IEC 61009) suitable for 240/415 volts 50 cycles AC supply	each	10.20	2814.45	11.22	2815.47

Sr. No.	Description	Unit	Plains		Sub Mountainous	
			Labour Rate	Through Rate	Labour Rate	Through Rate
1	2	3	4	5	6	7
(xxxvii)	RCBO (Earth leakage, overload and short circuit protection device) double pole 16/25amp., sensitivity 100/300mA (Breaking capacity 10kA and as per standard IEC 61009) suitable for 240/415 volts 50 cycles AC supply	each	10.20	2279.32	11.22	2280.34
(xxxviii)	RCBO (Earth leakage, overload and short circuit protection device) double pole 32amp., sensitivity 100/300mA (Breaking capacity 10kA and as per standard IEC 61009) suitable for 240/415 volts 50 cycles AC supply	each	10.20	2319.97	11.22	2320.99
(xxxix)	RCBO (Earth leakage, overload and short circuit protection device) double pole 40amp., sensitivity 100/300mA (Breaking capacity 10kA and as per standard IEC 61009) suitable for 240/415 volts 50 cycles AC supply	each	10.20	2600.40	11.22	2601.42
(xl)	RCBO (Earth leakage, overload and short circuit protection device) double pole 63amp., sensitivity 100/300mA (Breaking capacity 10kA and as per standard IEC 61009) suitable for 240/415 volts 50 cycles AC supply	each	10.20	3000.31	11.22	3001.33
	<b>RCCB's:</b>					
(xli)	Residual Current Circuit Breaker (RCCB for earth leakage protection) double pole 16/25amp., sensitivity 30mA (as per standard IEC 61008) suitable for 240/415 volts 50 cycles AC supply	each	10.20	1628.28	11.22	1629.30
(xlii)	Residual Current Circuit Breaker (RCCB for earth leakage protection) double pole 32/40amp., sensitivity 30mA (as per standard IEC 61008) suitable for 240/415 volts 50 cycles AC supply	each	10.20	1908.81	11.22	1909.83
(xliii)	Residual Current Circuit Breaker (RCCB for earth leakage protection) double pole 63amp., sensitivity 30mA (as per standard IEC 61008) suitable for 240/415 volts 50 cycles AC supply	each	10.20	2189.34	11.22	2190.36
(xliv)	Residual Current Circuit Breaker (RCCB for earth leakage protection) double pole 16/25amp., sensitivity 100mA (as per standard IEC 61008) suitable for 240/415 volts 50 cycles AC supply	each	10.20	1683.27	11.22	1684.29
(xlv)	Residual Current Circuit Breaker (RCCB for earth leakage protection) double pole 32/40amp., sensitivity 100mA (as per standard IEC 61008) suitable for 240/415 volts 50 cycles AC supply	each	10.20	1983.99	11.22	1985.01
(xlvi)	Residual Current Circuit Breaker (RCCB for earth leakage protection) double pole 63amp., sensitivity 100mA (as per standard IEC 61008) suitable for 240/415 volts 50 cycles AC supply	each	10.20	2291.45	11.22	2292.47
(xlvii)	Residual Current Circuit Breaker (RCCB for earth leakage protection) double pole 16/25amp., sensitivity 300mA (as per standard IEC 61008) suitable for 240/415 volts 50 cycles AC supply	each	10.20	1683.27	11.22	1684.29

Sr. No.	Description		Unit	Plains		Sub Mountainous	
				Labour Rate	Through Rate	Labour Rate	Through Rate
1	2		3	4	5	6	7
	(xlviii)	Residual Current Circuit Breaker (RCCB for earth leakage protection) double pole 32/40amp., sensitivity 300mA (as per standard IEC 61008) suitable for 240/415 volts 50 cycles AC supply	each	10.20	1983.99	11.22	1985.01
	(xlix)	Residual Current Circuit Breaker (RCCB for earth leakage protection) double pole 63amp., sensitivity 300mA (as per standard IEC 61008) suitable for 240/415 volts 50 cycles AC supply	each	10.20	2291.45	11.22	2292.47
	(l)	Residual Current Circuit Breaker (RCCB for earth leakage protection) four pole 16/25amp., sensitivity 30mA (as per standard IEC 61008) suitable for 240/415 volts 50 cycles AC supply	each	20.41	2140.08	22.45	2142.12
	(li)	Residual Current Circuit Breaker (RCCB for earth leakage protection) four pole 32/40amp., sensitivity 30mA (as per standard IEC 61008) suitable for 240/415 volts 50 cycles AC supply	each	20.41	2198.42	22.45	2200.46
	(lii)	Residual Current Circuit Breaker (RCCB for earth leakage protection) four pole 63amp., sensitivity 30mA (as per standard IEC 61008) suitable for 240/415 volts 50 cycles AC supply	each	20.41	2539.55	22.45	2541.59
	(liii)	Residual Current Circuit Breaker (RCCB for earth leakage protection) four pole 16/25amp., sensitivity 100mA (as per standard IEC 61008) suitable for 240/415 volts 50 cycles AC supply	each	20.41	2237.70	22.45	2239.74
	(liv)	Residual Current Circuit Breaker (RCCB for earth leakage protection) four pole 32/40amp., sensitivity 100mA (as per standard IEC 61008) suitable for 240/415 volts 50 cycles AC supply	each	20.41	2269.11	22.45	2271.15
	(lv)	Residual Current Circuit Breaker (RCCB for earth leakage protection) four pole 63amp., sensitivity 100mA (as per standard IEC 61008) suitable for 240/415 volts 50 cycles AC supply	each	20.41	2636.05	22.45	2638.09
	(lvi)	Residual Current Circuit Breaker (RCCB for earth leakage protection) four pole 16/25amp., sensitivity 300mA (as per standard IEC 61008) suitable for 240/415 volts 50 cycles AC supply	each	20.41	2237.70	22.45	2239.74
	(lvii)	Residual Current Circuit Breaker (RCCB for earth leakage protection) four pole 32/40amp., sensitivity 300mA (as per standard IEC 61008) suitable for 240/415 volts 50 cycles AC supply	each	20.41	2269.11	22.45	2271.15
	(lviii)	Residual Current Circuit Breaker (RCCB for earth leakage protection) four pole 63amp., sensitivity 300mA (as per standard IEC 61008) suitable for 240/415 volts 50 cycles AC supply	each	20.41	2636.05	22.45	2638.09
<b>33.17</b>	<b>SHEET METAL DOUBLE DOOR DISTRIBUTION BOARD FOR MCB/ RCBO/ RCCB's:</b>						

Sr. No.	Description	Unit	Plains		Sub Mountainous	
			Labour Rate	Through Rate	Labour Rate	Through Rate
1	2	3	4	5	6	7
	<b>Supply and erection of sheet metal double door distribution boards of suitable size and of required no. of ways for mounting miniature circuit breakers/ RCBO's/ RCCB's in the existing MCB distribution board as per PWD General Specifications 2010 including connections with suitable size of thimbles and bonding to existing earth etc.</b>					
	<b>GROUP-A: (Siemens (Beta Guard/Minigard), Legrand (Ekinoxe) &amp; Schneider (Neo Break), L&amp;T (Hager vision+)</b>					
	(i) Sheet metal double door S.P. & N. distribution board (dust protected) provided with bus bar, neutral link and din bar, suitable for incorporating MCB's/ RCBO/ RCCB's, 4 way each	each	74.43	890.99	81.87	898.43
	(ii) Sheet metal double door S.P. & N. distribution board (dust protected) provided with bus bar, neutral link and din bar, suitable for incorporating MCB's/ RCBO/ RCCB's, 8 way each	each	88.72	1216.72	97.59	1225.59
	(iii) Sheet metal double door S.P. & N. distribution board (dust protected) provided with bus bar, neutral link and din bar, suitable for incorporating MCB's/ RCBO/ RCCB's, 12 way each	each	109.12	1492.41	120.03	1503.32
	(iv) Sheet metal double door S.P. & N. distribution board (dust protected) provided with bus bar, neutral link and din bar, suitable for incorporating MCB's/ RCBO/ RCCB's, 16 way each	each	109.12	1865.12	120.03	1876.03
	(v) Sheet metal double door T.P. & N. distribution board (dust protected) provided with bus bar, neutral link and din bar, suitable for incorporating FP/ TPN MCB's/ isolators for incoming and DP/ SP & N/ Single Pole MCB's/ RCBO/ RCCB's for outgoing 4 way each	each	109.12	2408.82	120.03	2419.73
	(vi) Sheet metal double door T.P. & N. distribution board (dust protected) provided with bus bar, neutral link and din bar, suitable for incorporating FP/ TPN MCB's/ isolators for incoming and DP/ SP & N/ Single Pole MCB's/ RCBO/ RCCB's for outgoing 6 way each	each	109.12	2919.38	120.03	2930.29
	(vii) Sheet metal double door T.P. & N. distribution board (dust protected) provided with bus bar, neutral link and din bar, suitable for incorporating FP/ TPN MCB's/ isolators for incoming and DP/ SP & N/ Single Pole MCB's/ RCBO/ RCCB's for outgoing 8 way each	each	141.78	3493.24	155.96	3507.42
	(viii) Sheet metal double door T.P. & N. distribution board (dust protected) provided with bus bar, neutral link and din bar, suitable for incorporating FP/ TPN MCB's/ isolators for incoming and DP/ SP & N/ Single Pole MCB's/ RCBO/ RCCB's for outgoing 12 way each	each	141.78	5024.93	155.96	5039.11
	(ix) Sheet metal double door T.P. & N. (vertical design) distribution board (dust protected) provided with bus bar, neutral link and din bar, suitable for incorporating FP/ TPN MCB's/ isolators for incoming and DP/ SP & N/ Single Pole MCB's/ RCBO/ RCCB's for outgoing 4 way each	each	109.12	5421.13	120.03	5432.04

Sr. No.	Description	Unit	Plains		Sub Mountainous	
			Labour Rate	Through Rate	Labour Rate	Through Rate
1	2	3	4	5	6	7
	(x) Sheet metal double door T.P. & N. (vertical design) distribution board (dust protected) provided with bus bar, neutral link and din bar, suitable for incorporating FP/ TPN MCB's/ isolators for incoming and DP/ SP & N/ Single Pole MCB's/ RCBO/ RCCB's for outgoing 8 way each	each	141.78	6862.95	155.96	6877.13
	(xi) Sheet metal double door T.P. & N. (vertical design) distribution board (dust protected) provided with bus bar, neutral link and din bar, suitable for incorporating FP/ TPN MCB's/ isolators for incoming and DP/ SP & N/ Single Pole MCB's/ RCBO/ RCCB's for outgoing 12 way each	each	141.78	8889.86	155.96	8904.04
	<b>GROUP-B: (Havell's, HPL, ABB, Standard &amp; other brands approved by PWD)</b>					
	(xii) Sheet metal double door S.P. & N. distribution board (dust protected) provided with bus bar, neutral link and din bar, suitable for incorporating MCB's/ RCBO/ RCCB's, 4 way each	each	74.43	659.96	81.87	667.40
	(xiii) Sheet metal double door S.P. & N. distribution board (dust protected) provided with bus bar, neutral link and din bar, suitable for incorporating MCB's/ RCBO/ RCCB's, 8 way each	each	88.72	854.29	97.59	863.16
	(xiv) Sheet metal double door S.P. & N. distribution board (dust protected) provided with bus bar, neutral link and din bar, suitable for incorporating MCB's/ RCBO/ RCCB's, 12 way each	each	109.12	1100.56	120.03	1111.47
	(xv) Sheet metal double door S.P. & N. distribution board (dust protected) provided with bus bar, neutral link and din bar, suitable for incorporating MCB's/ RCBO/ RCCB's, 16 way each	each	109.12	1364.76	120.03	1375.67
	(xvi) Sheet metal double door T.P. & N. distribution board (dust protected) provided with bus bar, neutral link and din bar, suitable for incorporating FP/ TPN MCB's/ isolators for incoming and DP/ SP & N/ Single Pole MCB's/ RCBO/ RCCB's for outgoing 4 way each	each	109.12	1742.55	120.03	1753.46
	(xvii) Sheet metal double door T.P. & N. distribution board (dust protected) provided with bus bar, neutral link and din bar, suitable for incorporating FP/ TPN MCB's/ isolators for incoming and DP/ SP & N/ Single Pole MCB's/ RCBO/ RCCB's for outgoing 6 way each	each	109.12	2124.70	120.03	2135.61
	(xviii) Sheet metal double door T.P. & N. distribution board (dust protected) provided with bus bar, neutral link and din bar, suitable for incorporating FP/ TPN MCB's/ isolators for incoming and DP/ SP & N/ Single Pole MCB's/ RCBO/ RCCB's for outgoing 8 way each	each	141.78	2646.73	155.96	2660.91
	(xix) Sheet metal double door T.P. & N. distribution board (dust protected) provided with bus bar, neutral link and din bar, suitable for incorporating FP/ TPN MCB's/ isolators for incoming and DP/ SP & N/ Single Pole MCB's/ RCBO/ RCCB's for outgoing 12 way each	each	141.78	3549.66	155.96	3563.84

Sr. No.	Description		Unit	Plains		Sub Mountainous	
				Labour Rate	Through Rate	Labour Rate	Through Rate
1	2		3	4	5	6	7
	(xx)	Sheet metal double door T.P. & N. (vertical design) distribution board (dust protected) provided with bus bar, neutral link and din bar, suitable for incorporating FP/ TPN MCB's/ isolators for incoming and DP/ SP & N/ Single Pole MCB's/ RCBO/ RCCB's for outgoing 4 way each	each	109.12	3958.13	120.03	3969.04
	(xxi)	Sheet metal double door T.P. & N. (vertical design) distribution board (dust protected) provided with bus bar, neutral link and din bar, suitable for incorporating FP/ TPN MCB's/ isolators for incoming and DP/ SP & N/ Single Pole MCB's/ RCBO/ RCCB's for outgoing 8 way each	each	141.78	4680.03	155.96	4694.21
	(xxii)	Sheet metal double door T.P. & N. (vertical design) distribution board (dust protected) provided with bus bar, neutral link and din bar, suitable for incorporating FP/ TPN MCB's/ isolators for incoming and DP/ SP & N/ Single Pole MCB's/ RCBO/ RCCB's for outgoing 12 way each	each	141.78	6079.23	155.96	6093.41
	(xxiii)	Sheet metal plug and socket distribution board single pole MCB and neutral enclosure with a two pin and earth plug socket to incorporate in one single pole MCB 10amp.	each	76.48	845.17	84.13	852.82
	(xxiv)	Sheet metal plug and socket distribution board single pole MCB and neutral enclosure with a two pin and earth plug socket to incorporate in one single pole MCB 20amp.	each	76.48	909.06	84.13	916.71
	(xxv)	Sheet metal plug and socket distribution board triple pole MCB and earth enclosure with a three pin and earth plug socket to incorporate in one triple pole MCB 20amp.	each	76.48	1587.72	84.13	1595.37
	(xxvi)	Sheet metal plug and socket distribution board triple pole MCB and earth enclosure with a three pin and earth plug socket to incorporate in one triple pole MCB 30amp.	each	76.48	1861.51	84.13	1869.16
<b>33.18</b>	<b>SHEET METAL IRON CLAD SWITCHES:</b>						
	<b>Supply and erection of sheet metal iron clad switch on existing surface with G.I. bolts &amp; nuts/ rag bolts and nuts etc., according to the size of holes in the body of the enclosure including connections with suitable size of thimbles and bonding to the existing earth as Per PWD General Specifications 2010.</b>						
	(i)	Sheet metal iron clad double pole switch 32amp. 415 volts	each	102.05	1075.47	112.26	1085.68
	(ii)	Sheet metal iron clad double pole switch 63amp. 415 volts	each	102.05	2195.52	112.26	2205.73
	(iii)	Sheet metal iron clad double pole switch 100amp. 415 volts	each	136.09	4021.62	149.70	4035.23
	(iv)	Sheet metal iron clad double pole switch 200amp. 415 volts	each	136.09	6261.70	149.70	6275.31
	(v)	Sheet metal iron clad triple pole switch with neutral link 32amp. 415 volts	each	134.72	1307.26	148.19	1320.73



Sr. No.	Description		Unit	Plains		Sub Mountainous	
				Labour Rate	Through Rate	Labour Rate	Through Rate
1	2		3	4	5	6	7
	(vi)	Sheet metal iron clad triple pole switch with neutral link 63amp. 415 volts	each	134.72	2605.69	148.19	2619.16
	(vii)	Sheet metal iron clad triple pole switch with neutral link 100amp. 415 volts	each	136.09	4776.62	149.70	4790.23
	(viii)	Sheet metal iron clad triple pole switch with neutral link 200amp. 415 volts	each	204.14	8515.88	224.55	8536.29
	(ix)	Sheet metal iron clad triple pole switch with neutral link 320amp. 415 volts	each	408.23	11545.91	449.05	11586.73
	(x)	Sheet metal iron clad triple pole switch with neutral link 400amp. 415 volts	each	408.23	16350.08	449.05	16390.90
<b>33.19</b>	<b>SHEET METAL IRON CLAD CHANGEOVER SWITCHES:</b>						
	<b>Supply and erection of sheet metal iron clad change-over switch on existing surface with G.I. bolts &amp; nuts / rag bolts and nuts etc., according to the size of holes in the body of the switch including connections with suitable size of thimbles and bonding to the existing earth as per PWD General Specifications 2010.</b>						
	(i)	Sheet metal iron clad double pole changeover switch 32amp. 415 volts	each	102.05	1166.74	112.26	1176.95
	(ii)	Sheet metal iron clad double pole changeover switch 63amp. 415 volts	each	102.05	2636.06	112.26	2646.27
	(iii)	Sheet metal iron clad double pole changeover switch 100amp. 415 volts	each	136.09	4633.90	149.70	4647.51
	(iv)	Sheet metal iron clad double pole changeover switch 200amp. 415 volts	each	136.09	6388.65	149.70	6402.26
	(v)	Sheet metal iron clad four pole changeover switch 32amp. 415 volts	each	134.72	1705.49	148.19	1718.96
	(vi)	Sheet metal iron clad four pole changeover switch 63amp. 415 volts	each	134.72	4008.12	148.19	4021.59
	(vii)	Sheet metal iron clad four pole changeover switch 100amp. 415 volts	each	136.09	7456.42	149.70	7470.03
	(viii)	Sheet metal iron clad four pole changeover switch 200amp. 415 volts	each	204.14	10361.90	224.55	10382.31
	(ix)	Sheet metal iron clad four pole changeover switch 320amp. 415 volts	each	408.23	13570.72	449.05	13611.54
	(x)	Sheet metal iron clad four pole changeover switch 400amp. 415 volts	each	408.23	17304.19	449.05	17345.01
<b>33.20</b>	<b>SHEET METAL BUS BAR CHAMBERS (COPPER STRIPS):</b>						

Sr. No.	Description	Unit	Plains		Sub Mountainous	
			Labour Rate	Through Rate	Labour Rate	Through Rate
1	2	3	4	5	6	7
	<b>Supply and erection of sheet metal bus-bar chamber (factory fabricated) duly powder coated on existing surface with required no. of bus-bar strips of suitable length and cross-sectional area. Copper strips of suitable length and cross-sectional area should be tinned and mounted on DMC/ SMC moulds at sufficient distance enclosure made of M.S. sheet 1.6mm thick with hinged cover and lock, fitted with dust excluding gaskets and secured with sufficient no. of cadmium plated iron screws and of given overall dimensions and to be fixed with G.I. bolts and nuts/ rag bolts and nuts etc. complete with all accessories including connections with suitable size of thimbles, bonding to the existing earth and painting etc. as desired by the Engineer-in-charge at site.</b>					
	(i) Sheet metal bus bar chamber suitable for 63amp. 415 volts capacity with 4 tinned copper strip bus bars each of length 230mm and cross sectional area (18mm x 3.3mm) enclosure having over all dimensions (300mm x 345mm x 120mm) nominal	each	134.72	2794.91	148.19	2808.38
	(ii) Sheet metal bus bar chamber suitable for 63amp. 415 volts capacity with 4 tinned copper strip bus bars each of length 270mm and cross sectional area (18mm x 3.3mm) enclosure having over all dimensions (350mm x 450mm x 150mm) nominal	each	134.72	3300.36	148.19	3313.83
	(iii) Sheet metal bus bar chamber suitable for 100amp. 415 volts capacity with 4 tinned copper strip bus bars each of length 230mm and cross sectional area (25mm x 3.3mm) enclosure having over all dimensions (300mm x 345mm x 120mm) nominal	each	136.09	3163.88	149.70	3177.49
	(iv) Sheet metal bus bar chamber suitable for 100amp. 415 volts capacity with 4 tinned copper strip bus bars each of length 270mm and cross sectional area (25mm x 3.3mm) enclosure having over all dimensions (350mm x 450mm x 150mm) nominal	each	136.09	3715.29	149.70	3728.90
	(v) Sheet metal bus bar chamber suitable for 100amp. 415 volts capacity with 4 tinned copper strip bus bars each of length 365mm and cross sectional area (25mm x 3.3mm) enclosure having over all dimensions (455mm x 455mm x 150mm) nominal	each	136.09	4450.50	149.70	4464.11
	(vi) Sheet metal bus bar chamber suitable for 200amp. 415 volts capacity with 4 tinned copper strip bus bars each of length 270mm and cross sectional area (25mm x 5mm) enclosure having over all dimensions (350mm x 450mm x 150mm) nominal	each	204.14	4426.64	224.55	4447.05
	(vii) Sheet metal bus bar chamber suitable for 200amp. 415 volts capacity with 4 tinned copper strip bus bars each of length 365mm and cross sectional area (25mm x 5mm) enclosure having over all dimensions (455mm x 455mm x 150mm) nominal	each	204.14	5345.65	224.55	5366.06

Sr. No.	Description		Unit	Plains		Sub Mountainous	
				Labour Rate	Through Rate	Labour Rate	Through Rate
1	2		3	4	5	6	7
	(viii)	Sheet metal bus bar chamber suitable for 200amp. 415 volts capacity with 4 tinned copper strip bus bars each of length 495mm and cross sectional area (25mm x 5mm) enclosure having over all dimensions (610mm x 510mm x 215mm) nominal	each	204.14	6632.26	224.55	6652.67
	(ix)	Sheet metal bus bar chamber suitable for 200amp. 415 volts capacity with 4 tinned copper strip bus bars each of length 635mm and cross sectional area (25mm x 5mm) enclosure having over all dimensions (780mm x 510mm x 215mm) nominal	each	204.14	7735.06	224.55	7755.47
<b>33.21</b>	<b>SWITCH DISCONNECTOR FUSE UNIT:</b>						
<b>A</b>	<b>SWITCH DISCONNECTOR FUSE UNIT (Without Sheet Enclosure):</b>						
	<b>Supply and erection of Switch Disconnecter fuse unit with HRC Fuses (Panel mounting Cubicle type) in the existing Cubical Panel (conforms to IS 13947 (Part I&amp;III) complete with G.I. Bolts, Nuts &amp; Connection on both sides of switch with suitable size of Thimbles, including cost of HRC fuses as per PWD General Specifications 2010.</b>						
	(i)	32Amp. 415volts three pole & neutral switch disconnecter fuse unit with HRC Fuses	each	67.36	1332.44	74.10	1339.18
	(ii)	63Amp. 415volts three pole & neutral switch disconnecter fuse unit with HRC Fuses	each	67.36	1970.96	74.10	1977.70
	(iii)	100Amp. 415volts three pole & neutral switch disconnecter fuse unit with HRC Fuses	each	102.06	4240.00	112.27	4250.21
	(iv)	125Amp. 415volts three pole & neutral switch disconnecter fuse unit with HRC Fuses	each	102.06	4890.98	112.27	4901.19
	(v)	160Amp. 415volts three pole & neutral switch disconnecter fuse unit with HRC Fuses	each	153.10	5731.77	168.41	5747.08
	(vi)	200Amp. 415volts three pole & neutral switch disconnecter fuse unit with HRC Fuses	each	153.10	6669.93	168.41	6685.24
	(vii)	250Amp. 415volts three pole & neutral switch disconnecter fuse unit with HRC Fuses	each	153.10	8047.24	168.41	8062.55
	(viii)	320Amp. 415volts three pole & neutral switch disconnecter fuse unit with HRC Fuses	each	244.96	10522.79	269.46	10547.29
	(ix)	400Amp. 415volts three pole & neutral switch disconnecter fuse unit with HRC Fuses	each	306.18	11613.09	336.80	11643.71
	(x)	630Amp. 415volts three pole & neutral switch disconnecter fuse unit with HRC Fuses	each	510.31	19793.95	561.34	19844.98
	(xi)	32Amp. 415volts four pole switch disconnecter fuse unit with HRC Fuses (with switched neutral)	each	67.36	1885.76	74.10	1892.50
	(xii)	63Amp. 415volts four pole switch disconnecter fuse unit with HRC Fuses (with switched neutral)	each	67.36	2320.38	74.10	2327.12
	(xiii)	100Amp. 415volts four pole switch disconnecter fuse unit with HRC Fuses (with switched neutral)	each	102.06	4977.13	112.27	4987.34
	(xiv)	125Amp. 415volts four pole switch disconnecter fuse unit with HRC Fuses (with switched neutral)	each	102.06	5503.64	112.27	5513.85

Sr. No.	Description		Unit	Plains		Sub Mountainous	
				Labour Rate	Through Rate	Labour Rate	Through Rate
1	2		3	4	5	6	7
	(xv)	160Amp. 415volts four pole switch disconnecter fuse unit with HRC Fuses (with switched neutral)	each	153.10	6937.98	168.41	6953.29
	(xvi)	200Amp. 415volts four pole switch disconnecter fuse unit with HRC Fuses (with switched neutral)	each	153.10	7957.50	168.41	7972.81
	(xvii)	250Amp. 415volts four pole switch disconnecter fuse unit with HRC Fuses (with switched neutral)	each	153.10	9736.89	168.41	9752.20
	(xviii)	320Amp. 415volts four pole switch disconnecter fuse unit with HRC Fuses (with switched neutral)	each	244.96	12423.04	269.46	12447.54
	(xix)	400Amp. 415volts four pole switch disconnecter fuse unit with HRC Fuses (with switched neutral)	each	306.18	13891.48	336.80	13922.10
	(xx)	630Amp. 415volts four pole switch disconnecter fuse unit with HRC Fuses (with switched neutral)	each	510.31	22613.20	561.34	22664.23
<b>B</b>	<b>SWITCH DISCONNECTOR FUSE UNIT (With Sheet Enclosure):</b>						
	<b>Supply and erection of Switch Disconnecter fuse unit with HRC Fuses in sheet enclosure on the existing surface (conforms to IS 13947 (PartI&amp;III) complete with G.I. Bolts, Nuts etc. according to the size of holes in the body of the enclosure &amp; Connection on both sides of switch with suitable size of Thimbles, including cost of HRC fuses as per PWD General Specifications 2010.</b>						
	(i)	32Amp. 415volts three pole & neutral switch disconnecter fuse unit with HRC Fuses in sheet enclosure	each	2117.77	2117.77	148.19	2131.24
	(ii)	63Amp. 415volts three pole & neutral switch disconnecter fuse unit with HRC Fuses in sheet enclosure	each	134.72	3079.39	148.19	3092.86
	(iii)	100Amp. 415volts three pole & neutral switch disconnecter fuse unit with HRC Fuses in sheet enclosure	each	153.10	5726.99	168.41	5742.30
	(iv)	125Amp. 415volts three pole & neutral switch disconnecter fuse unit with HRC Fuses in sheet enclosure	each	153.10	6471.29	168.41	6486.60
	(v)	160Amp. 415volts three pole & neutral switch disconnecter fuse unit with HRC Fuses in sheet enclosure	each	204.12	7702.18	224.53	7722.59
	(vi)	200Amp. 415volts three pole & neutral switch disconnecter fuse unit with HRC Fuses in sheet enclosure	each	204.12	8616.40	224.53	8636.81
	(vii)	250Amp. 415volts three pole & neutral switch disconnecter fuse unit with HRC Fuses in sheet enclosure	each	204.12	10347.92	224.53	10368.33
	(viii)	320Amp. 415volts three pole & neutral switch disconnecter fuse unit with HRC Fuses in sheet enclosure	each	306.18	13240.52	336.80	13271.14
	(ix)	400Amp. 415volts three pole & neutral switch disconnecter fuse unit with HRC Fuses in sheet enclosure	each	347.02	15138.52	381.72	15173.22

Sr. No.	Description		Unit	Plains		Sub Mountainous	
				Labour Rate	Through Rate	Labour Rate	Through Rate
1	2		3	4	5	6	7
	(x)	630Amp. 415volts three pole & neutral switch disconnecter fuse unit with HRC Fuses in sheet enclosure	each	408.25	24006.99	449.08	24047.82
<b>33.22</b>	<b>ON LOAD CHANGEOVER SWITCH:</b>						
<b>A</b>	<b>ON LOAD CHANGEOVER SWITCH (Without Sheet Enclosure):</b>						
	<b>Supply and erection of On Load Change over Switch with advance neutral UNIT (Panel mounting Cubical type) in the existing Cubical Panel. (Confirms to IS 13947 (PartIII). complete with G.I. Bolts, Nuts &amp; Connection on both sides of switch with suitable size of Thimbles as per PWD General Specifications 2010.</b>						
	(i)	63amp. 415 volts four Pole on load change over switch with advance neutral UNIT	each	67.36	3239.39	74.10	3246.13
	(ii)	100amp. 415 volts four Pole on load change over switch with advance neutral UNIT	each	102.06	4535.17	112.27	4545.38
	(iii)	125amp. 415 volts four Pole on load change over switch with advance neutral UNIT	each	102.06	6132.25	112.27	6142.46
	(iv)	160amp. 415 volts four Pole on load change over switch with advance neutral UNIT	each	153.10	6577.39	168.41	6592.70
	(v)	200amp. 415 volts four Pole on load change over switch with advance neutral UNIT	each	153.10	8087.38	168.41	8102.69
	(vi)	250amp. 415 volts four Pole on load change over switch with advance neutral UNIT	each	153.10	11490.34	168.41	11505.65
	(vii)	320amp. 415 volts four Pole on load change over switch with advance neutral UNIT	each	244.96	12245.93	269.46	12270.43
	(viii)	400amp. 415 volts four Pole on load change over switch with advance neutral UNIT	each	306.18	17534.00	336.80	17564.62
	(ix)	630amp. 415 volts four Pole on load change over switch with advance neutral UNIT	each	510.31	21015.29	561.34	21066.32
	(x)	800amp. 415 volts four Pole on load change over switch with advance neutral UNIT	each	510.31	30224.53	561.34	30275.56
	(xi)	1000amp. 415 volts four Pole on load change over switch with advance neutral UNIT	each	510.31	49928.94	561.34	49979.97
<b>B</b>	<b>ON LOAD CHANGEOVER SWITCH (With Sheet Enclosure)</b>						
	<b>Supply and erection of On Load Change over Switch with advance neutral UNIT in sheet enclosure on the existing surface. (Confirms to IS 13947 (PartIII). complete with G.I. Bolts, Nuts etc. according to the size of holes in the body of the enclosure &amp; Connection on both sides of switch with suitable size of Thimbles as per PWD General Specifications 2010.</b>						
	(i)	63amp. 415 volts four Pole on load change over switch with advance neutral UNIT in sheet enclosure	each	134.72	4484.86	148.19	4498.33

Sr. No.	Description		Unit	Plains		Sub Mountainous	
				Labour Rate	Through Rate	Labour Rate	Through Rate
1	2		3	4	5	6	7
	(ii)	100amp. 415 volts four Pole on load change over switch with advance neutral UNIT in sheet enclosure	each	136.09	5980.75	149.70	5994.36
	(iii)	125amp. 415 volts four Pole on load change over switch with advance neutral UNIT in sheet enclosure	each	136.09	8053.76	149.70	8067.37
	(iv)	160amp. 415 volts four Pole on load change over switch with advance neutral UNIT in sheet enclosure	each	136.09	8468.60	149.70	8482.21
	(v)	200amp. 415 volts four Pole on load change over switch with advance neutral UNIT in sheet enclosure	each	204.14	9822.62	224.55	9843.03
	(vi)	250amp. 415 volts four Pole on load change over switch with advance neutral UNIT in sheet enclosure	each	204.14	14113.32	224.55	14133.73
	(vii)	320amp. 415 volts four Pole on load change over switch with advance neutral UNIT in sheet enclosure	each	408.23	14898.18	449.05	14939.00
	(viii)	400amp. 415 volts four Pole on load change over switch with advance neutral UNIT in sheet enclosure	each	408.23	21535.46	449.05	21576.28
	(ix)	630amp. 415 volts four Pole on load change over switch with advance neutral UNIT in sheet enclosure	each	612.37	25141.21	673.61	25202.45
	(x)	800amp. 415 volts four Pole on load change over switch with advance neutral UNIT in sheet enclosure	each	612.37	35760.85	673.61	35822.09
	(xi)	1000amp. 415 volts four Pole on load change over switch with advance neutral UNIT in sheet enclosure	each	714.42	61333.47	785.86	61404.91
<b>33.23</b>	<b>MOULDED CASE CIRCUIT BREAKERS:</b>						
	<b>Supply and erection of Moulded Case Circuit Breaker (Panel mounting Cubicle type) in the existing Cubical Panel (conforms to IEC:60947-II) and relevant PWD general specifications 2010 complete with G.I. Bolts, Nuts &amp; Connection on both sides of MCCB with suitable size of Thimbles etc.</b>						
	<b>MCCB (Fixed Type Thermal and Magnetic Protection Make: L&amp;T (DU/DH), ABB (T-MAX), Schneider (CVS), Seimens(3VT1/3VL)):</b>						
	(i)	40-80amp. 415 volts breaking capacity $\geq 25kA$ four pole fixed type thermal and magnetic setting MCCB unit	each	102.06	5080.19	112.27	5090.40
	(ii)	100amp. 415 volts breaking capacity $\geq 25kA$ four pole fixed type thermal and magnetic setting MCCB unit	each	102.06	5447.79	112.27	5458.00
	<b>MCCB (Adjustable Thermal &amp; Magnetic Protection Make: L&amp;T (DH), ABB (T-MAX), Schneider (NSX), Seimens(3VT1/3VL)):</b>						
	(iii)	100amp. 415 volts breaking capacity $\geq 35kA$ four pole adjustable thermal and magnetic protection MCCB unit	each	102.06	7571.73	112.27	7581.94
	(iv)	125amp. 415 volts breaking capacity $\geq 35kA$ four pole adjustable thermal and magnetic protection MCCB unit	each	102.06	8449.88	112.27	8460.09
	(v)	160amp. 415 volts breaking capacity $\geq 35kA$ four pole adjustable thermal and magnetic protection MCCB unit	each	153.10	11339.64	168.41	11354.95

Sr. No.	Description		Unit	Plains		Sub Mountainous	
				Labour Rate	Through Rate	Labour Rate	Through Rate
1	2		3	4	5	6	7
	(vi)	200amp. 415 volts breaking capacity ≥35kA four pole adjustable thermal and magnetic protection MCCB unit	each	153.10	13540.16	168.41	13555.47
	<b>MCCB (Microprocessor Based Adjustable Thermal and Magnetic Protection Make: L&amp;T (DSINE), ABB (T-MAX), Schneider (NSX), Seimens(3VL):</b>						
	(vii)	250amp. 415 volts breaking capacity ≥50kA four pole microprocessor based adjustable thermal and magnetic protection MCCB unit	each	153.10	28185.65	168.41	28200.96
	(viii)	315amp. 415 volts breaking capacity ≥50kA four pole microprocessor based adjustable thermal and magnetic protection MCCB unit	each	204.12	28338.78	224.53	28359.19
	(ix)	400amp. 415 volts breaking capacity ≥50kA four pole microprocessor based adjustable thermal and magnetic protection MCCB unit	each	204.12	29181.26	224.53	29201.67
	(x)	500amp. 415 volts breaking capacity ≥50kA four pole microprocessor based adjustable thermal and magnetic protection unit	each	204.12	31744.39	224.53	31764.80
	(xi)	630amp. 415 volts breaking capacity ≥50kA four pole microprocessor based adjustable thermal and magnetic protection MCCB unit	each	204.12	31744.39	224.53	31764.80
<b>33.24</b>	<b>AIR CIRCUIT BREAKERS:</b>						
	<b>Supply &amp; erection of air circuit-breaker on the existing industrial panel, including bonding to the existing earth with suitable glands and making necessary connections with suitable size of thimbles as required by the Engineer-in-Charge at site and as per PWD General Specifications (Make: L&amp;T-U Power, ABB-E Max, Seimens-3WL, Schneider-MVS ):-</b>						
	(i)	Air circuit-breaker electrically operated (electrical draw-out type), 4 pole, 800amp. 415 volts complete.	each	1428.86	171955.92	1571.75	172098.81
	(ii)	Air circuit-breaker electrically operated (electrical draw-out type), 4 pole, 1000amp. 415 volts complete.	each	1632.97	177265.63	1796.27	177428.93
	(iii)	Air circuit-breaker electrically operated (electrical draw-out type), 4 pole, 1250amp. 415 volts complete.	each	1837.09	189723.19	2020.80	189906.90
	(iv)	Air circuit-breaker electrically operated (electrical draw-out type), 4 pole, 1600amp. 415 volts complete.	each	2041.20	212391.94	2245.32	212596.06
	(v)	Air circuit-breaker electrically operated (electrical draw-out type), 4 pole, 2000amp. 415 volts complete.	each	2245.34	268757.69	2469.87	268982.22
	(vi)	Air circuit-breaker electrically operated (electrical draw-out type), 4 pole, 2500amp. 415 volts complete.	each	2449.44	303679.87	2694.38	303924.81

Sr. No.	Description		Unit	Plains		Sub Mountainous	
				Labour Rate	Through Rate	Labour Rate	Through Rate
1	2		3	4	5	6	7
	(vii)	Air circuit-breaker electrically operated (electrical draw-out type), 4 pole, 3200amp. 415 volts complete.	each	2653.57	377404.65	2918.93	377670.01
<b>33.25</b>	<b>CABLE TRAY:</b>						
	Supply and erection of MS perforated cable tray with DA gray paint on the existing surface with the help of MS angle iron support (to be painted with approved paint) of size 50mm x 50mm x 6mm thick to be fixed with fasteners/ nut & bolts etc. complete in all respect as desired by the Engineer-in-charge as per PWD General Specifications 2010.						
	(i)	MS perforated cable tray size 150mm x 50mm x 50mm (2mm thick)	m	32.19	567.11	35.41	570.33
	(ii)	MS perforated cable tray size 300mm x 50mm x 50mm (2mm thick)	m	32.19	808.42	35.41	811.64
	(iii)	MS perforated cable tray size 450mm x 50mm x 50mm (2mm thick)	m	32.19	1050.64	35.41	1053.86
	(iv)	MS perforated cable tray size 50mm x 50mm (2mm thick) L Type	m	294.47	294.47	35.41	297.69
<b>33.26</b>	<b>AUTOMATIC VOLTAGE STABILIZER, TIMER:</b>						
<b>33.26 A</b>	<b>AUTOMATIC VOLTAGE STABILIZER:</b>						
	Supply and erection of single phase copper wound automatic voltage stabilizer of suitable capacity electronically controlled circuit with input voltage 100-280 volts single phase AC supply and output voltage 220 ± 5% volts single phase AC supply having main silicon core copper wound step up transformer with suitable nos. of turns on primary side and secondary side the transformer should be fully insulated inside the MS sheet box 450 mm x 350mm x 330mm. There should be power control relay and single pole MCB (C-curve, 10kA) of suitable capacity complete with internal copper wiring along with amp. meter and volt meter, high voltage cut off 280 volt input (243 volt output) and 90 volt maximum boost and overloading protection to be provided.						
	(i)	Automatic voltage stabilizer copper wound 4 KVA, input voltage 100-280volts & output voltage 220± 5%volts with power control relay rating 25 amp. (single phase) and Single pole MCB 16 amp. (C-curve, 10kA)	each	34.09	6926.65	37.50	6930.06
	(ii)	Automatic voltage stabilizer copper wound 5 KVA, input voltage 100-280volts & output voltage 220± 5%volts with power control relay rating 32 amp. (single phase) and Single pole MCB 25 amp. (C-curve, 10kA)	each	34.09	7947.77	37.50	7951.18



Sr. No.	Description		Unit	Plains		Sub Mountainous	
				Labour Rate	Through Rate	Labour Rate	Through Rate
1	2		3	4	5	6	7
	(iii)	Automatic voltage stabilizer copper wound 6 KVA, input voltage 100-280volts & output voltage 220± 5%volts with power control relay rating 40 amp. (single phase) and Single pole MCB 32 amp. (C-curve, 10kA)	each	34.09	9224.17	37.50	9227.58
	(iv)	Automatic voltage stabilizer copper wound 8 KVA, input voltage 100-280volts & output voltage 220± 5%volts with power control relay rating 63 amp. (single phase) and Single pole MCB 63 amp. (C-curve, 10kA)	each	34.09	10500.58	37.50	10503.99
<b>33.26</b>	<b>TIMER:</b>						
<b>B</b>	(i)	S/E of Microprocessor Based St. Light Controller with digital time switch daily programmed with stand by lithium battery with back up of 6 years with min. time between 2 switching operations is 1 minute, 3 nos. three pole power contactors 40A. with coil voltage 220-230V AC with 1 no. aux. contact NO, 1 no. aux. contactor 6 amp.(2NO+2NC) with coil voltage 220V AC, 3 nos. MCB 2 pole 40amp. (C-curve,10kA)& power wiring with single core PVC insulated FRLS cable 10 sq. mm and control wiring with PVC insulated FRLS cable 1 sq. mm, 1 no. two position selector switch to bypass timer and other accessories & petty material (din rail, 2 nos. 4 pole bakelite terminal strip 63A/440V AC, required nut bolts) should be fixed on bakelite sheet 6mm thick to be mounted in a IP54 surface/ flush mounting powder coated sheet metal (1.60mm thick) cabinet having size 450mmx600mmx150mm to switch 'ON' all the 3 phases & switch 'OFF' 3 phases pre-fixed timings complete in all respect as per satisfaction of Engineer-in-charge.	each	204.14	16558.19	224.55	16578.60
	(ii)	S/E of Microprocessor Based Street Light Controller with digital time switch daily programmed with stand by lithium battery with back up of six years with minimum time between 2 switching operations is 1 minute, 1 nos. 3 pole power contactors 40amp. with coil voltage 220-230V AC with 1 no. auxiliary contact NO, 1 no. MCB double pole 40amp. (C-curve, 10kA characteristic) and power wiring with single core PVC insulated FRLS cable 10 sq. mm & control wiring with PVC insulated FRLS cable 1 sq. mm, 1 no. two position selector switch to bypass timer & other accessories & petty material (din rail, 1 no. 4 pole bakelite terminal strip 63A/ 440 volts AC, required nut bolts) should be fixed on bakelite sheet 6mm thick to be mounted in a IP54 surface/ flush mounting powder coated sheet metal (1.60mm thick) cabinet having size 450mmx600mmx150mm to switch 'ON' all the 3 phases & switch 'OFF' 3 phases predetermined/ pre-fixed timings complete in all respect as per satisfaction of Engineer-in-charge.	each	204.14	9897.80	224.55	9918.21
<b>33.27</b>	<b>PAINTING INCLUDING LABOUR AND MATERIAL:</b>						
	(i)	Painting of ceiling fan complete with blades, canopy and suspension rod with two coats of approved paint (with brush).	each	23.55	100.30	25.91	102.66

Sr. No.	Description		Unit	Plains		Sub Mountainous	
				Labour Rate	Through Rate	Labour Rate	Through Rate
1	2		3	4	5	6	7
	(ii)	Painting of steel tubular pole with brackets with two coats of aluminium paint (with brush).					
	(a)	7 metre overall length	each	30.77	101.46	33.85	104.54
	(b)	8 metre overall length	each	35.17	115.96	38.69	119.48
	(c)	8.5 to 9 metre overall length	each	43.96	165.15	48.36	169.55
	(d)	9.5 to 10 metre overall length	each	54.95	186.24	60.45	191.74
	(iii)	Painting of galvanized iron pipe pole including bracket with two coats of aluminium paint (with brush).					
	(a)	4 metre overall length	each	17.58	37.78	19.34	39.54
	(b)	6.1 metre overall length	each	21.98	52.28	24.18	54.48
	(iv)	Painting of G.I./ Conduit pipes with two coats of approved paint (with brush) including cleaning the surface etc.					
	(a)	15mm dia G.I. pipe and conduit pipe 20mm dia.	m	3.52	5.48	3.87	5.83
	(b)	20mm dia G.I. pipe and conduit pipe 25mm dia.	m	3.52	6.00	3.87	6.35
	(c)	25mm dia G.I. pipe and conduit pipe 32mm dia.	m	3.52	6.63	3.87	6.98
	(d)	32mm dia G.I. pipe and conduit pipe 40mm dia.	m	3.52	7.48	3.87	7.83
	(e)	40mm dia G.I. pipe and conduit pipe 50mm dia.	m	3.52	7.96	3.87	8.31
	(f)	50mm dia G.I. pipe	m	3.52	9.09	3.87	9.44
	(g)	65mm dia G.I. pipe	m	4.40	11.43	4.84	11.87
	(h)	80mm dia G.I. pipe	m	4.40	12.60	4.84	13.04
	(i)	100mm dia G.I. pipe	m	4.40	14.94	4.84	15.38
<b>33.28</b>	<b>ERECTION, REPAIR AND REWINDING OF FANS:</b>						
	<b>A</b>	<b>ERECTION OF FANS:</b>					
	(i)	Erection of ceiling fan having connection with PVC insulated PVC sheathed two single core copper conductor (FRLS) cable 0.75mm sq. complete.	each	40.82	58.53	44.90	62.61
	(ii)	Erection of cabin fan on the wall having connection with PVC insulated PVC sheathed two single core copper conductor (FRLS) cable 0.75mm sq. complete.	each	40.82	56.79	44.90	60.87

Sr. No.	Description		Unit	Plains		Sub Mountainous	
				Labour Rate	Through Rate	Labour Rate	Through Rate
1	2		3	4	5	6	7
	(iii)	Erection of exhaust fan on the wall/ window grill having connection with PVC insulated PVC sheathed two single core copper conductor (FRLS) cable 0.75mm sq. complete.	each	51.04	100.23	56.14	105.33
	<b>B</b>	<b>REPAIR AND REWINDING OF CEILING FANS:</b>					
	(i)	Full stator rewinding of a ceiling fan (condensor type) of 900mm sweep, including cleaning & insulating the stator slots, sleeving, soldering, wrapping of cotton tape, varnishing, re-assembling & testing etc., complete .	each	102.05	203.55	112.26	213.76
	(ii)	Full stator rewinding of a ceiling fan (condensor type) of 1200mm sweep, including cleaning & insulating the stator slots, sleeving, soldering, wrapping of cotton tape, varnishing, re-assembling & testing etc., complete .	each	102.05	233.47	112.26	243.68
	(iii)	Full stator rewinding of a ceiling fan (condensor type) of 1400mm sweep, including cleaning & insulating the stator slots, sleeving, soldering, wrapping of cotton tape, varnishing, re-assembling & testing etc., complete .	each	102.05	261.93	112.26	272.14
	(iv)	Full stator rewinding of a exhaust fan (condensor type) of 300mm sweep, including cleaning & insulating the stator slots, sleeving, soldering, wrapping of cotton tape, varnishing, re-assembling & testing etc., complete .	each	102.05	205.60	112.26	215.81
	(v)	Full stator rewinding of a exhaust fan (condensor type) of 380mm sweep, including cleaning & insulating the stator slots, sleeving, soldering, wrapping of cotton tape, varnishing, re-assembling & testing etc., complete .	each	134.72	296.67	148.19	310.14
	(vi)	Full stator rewinding of a exhaust fan (condensor type) of 450mm sweep, including cleaning & insulating the stator slots, sleeving, soldering, wrapping of cotton tape, varnishing, re-assembling & testing etc., complete .	each	204.14	396.01	224.55	416.42
<b>33.29</b>	<b>GI PIPE POLES &amp; BRACKETS:</b>						
<b>A</b>	<b>GI PIPE POLES</b>						
	Supply and erection of G.I. pipe 'A' quality of suitable length and dia. conforming to I.S. 1239 part-I 1979, including fixing up to a given depth below G/L, the hole of excavation about 30 cm dia. and given depth to be filled in up to 15 cm below and above G/L with 1:2:4 cement concrete up to a height of 45 cm from G/L. The radial thick ness of the plinth above G/L should not be less than 6.35 cm and sufficient to completely flush a MCB distribution board SPN 4way with hinged water tight cover with locking arrangement having one single pole MCB of required capacity of the same size the outer surface of the plinth to be finished with 1:2 cement plaster 6 mm thick M.S. fuse box shall have a water proof hinged cover with locking arrangement including painting of pole with two coats of approved aluminium paint as required:-						

Sr. No.	Description		Unit	Plains		Sub Mountainous	
				Labour Rate	Through Rate	Labour Rate	Through Rate
1	2		3	4	5	6	7
	(i)	4 metre long having nominal bore dia. 65mm, planting depth 80cm with pit depth 95cm.	each	395.49	3251.63	435.04	3291.18
	(ii)	6.1 metre long having nominal bore dia. 80mm, planting depth 120cm with pit depth 135cm.	each	456.71	4750.41	502.38	4796.08
	(iii)	6.1 metre long having nominal bore dia 100mm, planting depth 120cm with pit depth 135cm .	each	456.71	6285.82	502.38	6331.49
<b>B</b>	<b>GI PIPE POLE BRACKETS:</b>						
	<b>SINGLE ARM BRACKETS:</b>						
	(i)	Supply and erection of G.I. pipe 40mm dia. (A-class) single arm bracket atleast 1 metre long arm to give a total overhang at a tentative angle of 100/105°, the bracket should be fixed on the top of the GI pipe pole having top outer dia. 80mm with GI reducer 80mm x 40mm with two coats of an approved aluminium paint complete in all respect as approved by the Engineer-in-charge at site.	each	45.06	638.02	49.57	642.53
	(ii)	Supply and erection of G.I. pipe 40mm dia. (A-class) single arm bracket atleast 1.5 metre long arm to give a total overhang at a tentative angle of 100/105°, the bracket should be fixed on the top of the GI pipe pole having top outer dia. 80mm with GI reducer 80mm x 40mm with two coats of an approved aluminium paint complete in all respect as approved by the Engineer-in-charge at site.	each	45.06	755.01	49.57	759.52
	(iii)	Supply and erection of G.I. pipe 40mm dia. (A-class) single arm bracket atleast 1 metre long arm to give a total overhang at a tentative angle of 100/105°, the bracket should be fixed on the top of the GI pipe pole having top outer dia. 100mm with GI reducer 100mm x 40mm with two coats of an approved aluminium paint complete in all respect as approved by the Engineer-in-charge at site.	each	45.06	644.59	49.57	649.10
	(iv)	Supply and erection of G.I. pipe 40mm dia. (A-class) single arm bracket atleast 1.5 metre long arm to give a total overhang at a tentative angle of 100/105°, the bracket should be fixed on the top of the GI pipe pole having top outer dia. 100mm with GI reducer 100mm x 40mm with two coats of an approved aluminium paint complete in all respect as approved by the Engineer-in-charge at site.	each	45.06	761.57	49.57	766.08
	(v)	Supply and erection of G.I. pipe 40mm dia. (medium) single arm bracket atleast 1.5 metre long arm to give a total overhang at a tentative angle of 100/105°, the bracket should be fixed on the existing surface/ wall with 2nos. MS flat clamp 25mm x 5mm, 30cm long and 4nos. fastner 10mm x 750mm long with two coats of an approved aluminium paint complete in all respect as approved by the Engineer-in-charge at site.	each	52.38	527.29	57.62	532.53

Sr. No.	Description		Unit	Plains		Sub Mountainous	
				Labour Rate	Through Rate	Labour Rate	Through Rate
1	2		3	4	5	6	7
	(vi)	Supply and erection of G.I. pipe 40mm dia. (medium) single arm bracket atleast 2 metre long arm to give a total overhang at a tentative angle of 100/105°, the bracket should be fixed on the existing surface/ wall with 2nos. MS flat clamp 25mm x 5mm, 30cm long and 4nos. fastner 10mm x 750mm long with two coats of an approved aluminium paint complete in all respect as approved by the Engineer-in-charge at site.	each	52.38	650.84	57.62	656.08
	(vii)	Supply and erection of G.I. pipe 50mm dia. (medium) single arm bracket atleast 1.5 metre long arm to give a total overhang at a tentative angle of 100/105°, the bracket should be fixed on the existing surface/ wall with 2nos. MS flat clamp 25mm x 5mm, 30cm long and 4nos. fastner 10mm x 750mm long with two coats of an approved aluminium paint complete in all respect as approved by the Engineer-in-charge at site.	each	65.47	637.01	72.02	643.56
	(viii)	Supply and erection of G.I. pipe 50mm dia. (medium) single arm bracket atleast 2 metre long arm to give a total overhang at a tentative angle of 100/105°, the bracket should be fixed on the existing surface/ wall with 2nos. MS flat clamp 25mm x 5mm, 30cm long and 4nos. fastner 10mm x 750mm long with two coats of an approved aluminium paint complete in all respect as approved by the Engineer-in-charge at site.	each	65.47	791.42	72.02	797.97
<b>C</b>	<b>GI PIPE BRACKETS FOR 3 STEPPED STEEL TUBULAR SINGLE ARM BRACKETS:</b>						
	(i)	Supply and erection of G.I. pipe 50mm dia. (medium) Single arm bracket 1.5 metre long each arm welded with MS canopy 80mm inner dia., outer dia 89.5mm (medium), 450mm long suitable for 3 stepped steel tubular swaged and welded pole with top outer section dia. 76.1mm. The MS canopy should have 3no. holes for fixing the bracket at the top end of the pole with the help of 3nos. ½"x1½" size nut bolt of full thread. The bracket should have MS round sheet 3mm thick 90mm dia. welded with MS ring of 90mm dia and 50mm long, 1.62mm thick for covering the top end of the canopy. The MS canopy and GI bracket should be welded at tentative angel 105° (105 degree) inclination with MS sheet 5mm thick triangular in shape having dimensions 225mm x 150mm x 5mm thick with two coats of an approved aluminium paint as desired by Engineer-in-charge at site.	each	69.47	1043.88	76.42	1050.83

Sr. No.	Description	Unit	Plains		Sub Mountainous	
			Labour Rate	Through Rate	Labour Rate	Through Rate
1	2	3	4	5	6	7
	(ii) Supply and erection of G.I. pipe 50mm dia. (medium) Single arm bracket 2 metre long each arm welded with MS canopy 80mm inner dia., outer dia 89.5mm (medium), 450mm long suitable for 3 stepped steel tubular swaged and welded pole with top outer section dia. 76.1mm. The MS canopy should have 3no. holes for fixing the bracket at the top end of the pole with the help of 3nos. ½"x1½" size nut bolt of full thread. The bracket should have MS round sheet 3mm thick 90mm dia. welded with MS ring of 90mm dia and 50mm long, 1.62mm thick for covering the top end of the canopy. The MS canopy and GI bracket should be welded at tentative angel 105° (105 degree) inclination with MS sheet 5mm thick triangular in shape having dimensions 300mm x 150mm x 5mm thick with two coats of an approved aluminium paint as desired by Engineer-in-charge at site.	each	69.47	1229.92	76.42	1236.87
	(iii) Supply and erection of G.I. pipe 50mm dia. (medium) Single arm bracket 2.5 metre long each arm welded with MS canopy 80mm inner dia., outer dia 89.5mm (medium), 450mm long suitable for 3 stepped steel tubular swaged and welded pole with top outer section dia. 76.1mm. The MS canopy should have 3no. holes for fixing the bracket at the top end of the pole with the help of 3nos. ½"x1½" size nut bolt of full thread. The bracket should have MS round sheet 3mm thick 90mm dia. welded with MS ring of 90mm dia and 50mm long, 1.62mm thick for covering the top end of the canopy. The MS canopy and GI bracket should be welded at tentative angel 105° (105 degree) inclination with MS sheet 5mm thick triangular in shape having dimensions 375mm x 150mm x 5mm thick with two coats of an approved aluminium paint as desired by Engineer-in-charge at site.	each	69.47	1415.98	76.42	1422.93
	(iv) Supply and erection of G.I. pipe 50mm dia. (medium) Single arm bracket 1.5 metre long each arm welded with MS canopy 125mm inner dia., outer dia 140.8mm (medium), 450mm long suitable for 3 stepped steel tubular swaged and welded pole with top outer section dia. 114.3mm. The MS canopy should have 3no. holes for fixing the bracket at the top end of the pole with the help of 3nos. ½"x1½" size nut bolt of full thread. The bracket should have MS round sheet 3mm thick 142mm dia. welded with MS ring of 142mm dia and 50mm long, 1.62mm thick for covering the top end of the canopy. The MS canopy and GI bracket should be welded at tentative angel 105° (105 degree) inclination with MS sheet 5mm thick triangular in shape having dimensions 225mm x 150mm x 5mm thick with two coats of an approved aluminium paint as desired by Engineer-in-charge at site.	each	69.47	1228.88	76.42	1235.83

Sr. No.	Description	Unit	Plains		Sub Mountainous	
			Labour Rate	Through Rate	Labour Rate	Through Rate
1	2	3	4	5	6	7
	(v) Supply and erection of G.I. pipe 50mm dia. (medium) Single arm bracket 2 metre long each arm welded with MS canopy 125mm inner dia., outer dia 140.8mm (medium), 450mm long suitable for 3 stepped steel tubular swaged and welded pole with top outer section dia. 114.3mm. The MS canopy should have 3no. holes for fixing the bracket at the top end of the pole with the help of 3nos. ½"x1½" size nut bolt of full thread. The bracket should have MS round sheet 3mm thick 142mm dia. welded with MS ring of 142mm dia and 50mm long, 1.62mm thick for covering the top end of the canopy. The MS canopy and GI bracket should be welded at tentative angel 105° (105 degree) inclination with MS sheet 5mm thick triangular in shape having dimensions 300mm x 150mm x 5mm thick with two coats of an approved aluminium paint as desired by Engineer-in-charge at site.	each	69.47	1414.92	76.42	1421.87
	(vi) Supply and erection of G.I. pipe 50mm dia. (medium) Single arm bracket 2.5 metre long each arm welded with MS canopy 125mm inner dia., outer dia 140.8mm (medium), 450mm long suitable for 3 stepped steel tubular swaged and welded pole with top outer section dia. 114.3mm. The MS canopy should have 3no. holes for fixing the bracket at the top end of the pole with the help of 3nos. ½"x1½" size nut bolt of full thread. The bracket should have MS round sheet 3mm thick 142mm dia. welded with MS ring of 142mm dia and 50mm long, 1.62mm thick for covering the top end of the canopy. The MS canopy and GI bracket should be welded at tentative angel 105° (105 degree) inclination with MS sheet 5mm thick triangular in shape having dimensions 375mm x 150mm x 5mm thick with two coats of an approved aluminium paint as desired by Engineer-in-charge at site.	each	69.47	1600.98	76.42	1607.93
	<b>DOUBLE ARM BRACKETS:</b>					
	(vii) Supply and erection of G.I. pipe 50mm dia. (medium) Double arm bracket 1.5 metre long each arm welded with MS canopy 80mm inner dia., outer dia 89.5mm (medium), 450mm long suitable for 3 stepped steel tubular swaged and welded pole with top outer section dia. 76.1mm. The MS canopy should have 3no. holes for fixing the bracket at the top end of the pole with the help of 3nos. ½"x1½" size nut bolt of full thread. The bracket should have MS round sheet 3mm thick 90mm dia. welded with MS ring of 90mm dia and 50mm long, 1.62mm thick for covering the top end of the canopy. The MS canopy and GI bracket should be welded at tentative angel 105° (105 degree) inclination with MS sheet 5mm thick triangular in shape having dimensions 225mm x 150mm x 5mm thick with two coats of an approved aluminium paint as desired by Engineer-in-charge at site.	each	95.27	1756.31	104.80	1765.84

Sr. No.	Description	Unit	Plains		Sub Mountainous	
			Labour Rate	Through Rate	Labour Rate	Through Rate
1	2	3	4	5	6	7
	(viii) Supply and erection of G.I. pipe 50mm dia. (medium) Double arm bracket 2 metre long each arm welded with MS canopy 80mm inner dia., outer dia 89.5mm (medium), 450mm long suitable for 3 stepped steel tubular swaged and welded pole with top outer section dia. 76.1mm. The MS canopy should have 3no. holes for fixing the bracket at the top end of the pole with the help of 3nos. ½"x1½" size nut bolt of full thread. The bracket should have MS round sheet 3mm thick 90mm dia. welded with MS ring of 90mm dia and 50mm long, 1.62mm thick for covering the top end of the canopy. The MS canopy and GI bracket should be welded at tentative angel 105° (105 degree) inclination with MS sheet 5mm thick triangular in shape having dimensions 300mm x 150mm x 5mm thick with two coats of an approved aluminium paint as desired by Engineer-in-charge at site.	each	95.27	2128.41	104.80	2137.94
	(ix) Supply and erection of G.I. pipe 50mm dia. (medium) Double arm bracket 2.5 metre long each arm welded with MS canopy 80mm inner dia., outer dia 89.5mm (medium), 450mm long suitable for 3 stepped steel tubular swaged and welded pole with top outer section dia. 76.1mm. The MS canopy should have 3no. holes for fixing the bracket at the top end of the pole with the help of 3nos. ½"x1½" size nut bolt of full thread. The bracket should have MS round sheet 3mm thick 90mm dia. welded with MS ring of 90mm dia and 50mm long, 1.62mm thick for covering the top end of the canopy. The MS canopy and GI bracket should be welded at tentative angel 105° (105 degree) inclination with MS sheet 5mm thick triangular in shape having dimensions 375mm x 150mm x 5mm thick with two coats of an approved aluminium paint as desired by Engineer-in-charge at site.	each	95.27	2500.51	104.80	2510.04
	(x) Supply and erection of G.I. pipe 50mm dia. (medium) Double arm bracket 1.5 metre long each arm welded with MS canopy 125mm inner dia., outer dia 140.8mm (medium), 450mm long suitable for 3 stepped steel tubular swaged and welded pole with top outer section dia. 114.3mm. The MS canopy should have 3no. holes for fixing the bracket at the top end of the pole with the help of 3nos. ½"x1½" size nut bolt of full thread. The bracket should have MS round sheet 3mm thick 142mm dia. welded with MS ring of 142mm dia and 50mm long, 1.62mm thick for covering the top end of the canopy. The MS canopy and GI bracket should be welded at tentative angel 105° (105 degree) inclination with MS sheet 5mm thick triangular in shape having dimensions 225mm x 150mm x 5mm thick with two coats of an approved aluminium paint as desired by Engineer-in-charge at site.	each	95.27	1941.31	104.80	1950.84



Sr. No.	Description	Unit	Plains		Sub Mountainous	
			Labour Rate	Through Rate	Labour Rate	Through Rate
1	2	3	4	5	6	7
(xi)	Supply and erection of G.I. pipe 50mm dia. (medium) Double arm bracket 2 metre long each arm welded with MS canopy 125mm inner dia., outer dia 140.8mm (medium), 450mm long suitable for 3 stepped steel tubular swaged and welded pole with top outer section dia. 114.3mm. The MS canopy should have 3no. holes for fixing the bracket at the top end of the pole with the help of 3nos. ½"x1½" size nut bolt of full thread. The bracket should have MS round sheet 3mm thick 142mm dia. welded with MS ring of 142mm dia and 50mm long, 1.62mm thick for covering the top end of the canopy. The MS canopy and GI bracket should be welded at tentative angel 105° (105 degree) inclination with MS sheet 5mm thick triangular in shape having dimensions 300mm x 150mm x 5mm thick with two coats of an approved aluminium paint as desired by Engineer-in-charge at site.	each	95.27	2313.41	104.80	2322.94
(xii)	Supply and erection of G.I. pipe 50mm dia. (medium) Double arm bracket 2.5 metre long each arm welded with MS canopy 125mm inner dia., outer dia 140.8mm (medium), 450mm long suitable for 3 stepped steel tubular swaged and welded pole with top outer section dia. 114.3mm. The MS canopy should have 3no. holes for fixing the bracket at the top end of the pole with the help of 3nos. ½"x1½" size nut bolt of full thread. The bracket should have MS round sheet 3mm thick 142mm dia. welded with MS ring of 142mm dia and 50mm long, 1.62mm thick for covering the top end of the canopy. The MS canopy and GI bracket should be welded at tentative angel 105° (105 degree) inclination with MS sheet 5mm thick triangular in shape having dimensions 375mm x 150mm x 5mm thick with two coats of an approved aluminium paint as desired by Engineer-in-charge at site.	each	95.27	2685.52	104.80	2695.05
	<b>TRIPLE ARM BRACKETS:</b>					
(xiii)	Supply and erection of G.I. pipe 50mm dia. (medium) Triple arm bracket 1.5 metre long each arm welded with MS canopy 80mm inner dia., outer dia 89.5mm (medium), 450mm long suitable for 3 stepped steel tubular swaged and welded pole with top outer section dia. 76.1mm. The MS canopy should have 3no. holes for fixing the bracket at the top end of the pole with the help of 3nos. ½"x1½" size nut bolt of full thread. The bracket should have MS round sheet 3mm thick 90mm dia. welded with MS ring of 90mm dia and 50mm long, 1.62mm thick for covering the top end of the canopy. The MS canopy and GI bracket should be welded at tentative angel 105° (105 degree) inclination with MS sheet 5mm thick triangular in shape having dimensions 225mm x 150mm x 5mm thick with two coats of an approved aluminium paint as desired by Engineer-in-charge at site.	each	115.34	2463.01	126.87	2474.54

Sr. No.	Description	Unit	Plains		Sub Mountainous	
			Labour Rate	Through Rate	Labour Rate	Through Rate
1	2	3	4	5	6	7
(xiv)	Supply and erection of G.I. pipe 50mm dia. (medium) Triple arm bracket 2 metre long each arm welded with MS canopy 80mm inner dia., outer dia 89.5mm (medium), 450mm long suitable for 3 stepped steel tubular swaged and welded pole with top outer section dia. 76.1mm. The MS canopy should have 3no. holes for fixing the bracket at the top end of the pole with the help of 3nos. ½"x1½" size nut bolt of full thread. The bracket should have MS round sheet 3mm thick 90mm dia. welded with MS ring of 90mm dia and 50mm long, 1.62mm thick for covering the top end of the canopy. The MS canopy and GI bracket should be welded at tentative angel 105° (105 degree) inclination with MS sheet 5mm thick triangular in shape having dimensions 300mm x 150mm x 5mm thick with two coats of an approved aluminium paint as desired by Engineer-in-charge at site.	each	115.34	3021.17	126.87	3032.70
(xv)	Supply and erection of G.I. pipe 50mm dia. (medium) Triple arm bracket 2.5 metre long each arm welded with MS canopy 80mm inner dia., outer dia 89.5mm (medium), 450mm long suitable for 3 stepped steel tubular swaged and welded pole with top outer section dia. 76.1mm. The MS canopy should have 3no. holes for fixing the bracket at the top end of the pole with the help of 3nos. ½"x1½" size nut bolt of full thread. The bracket should have MS round sheet 3mm thick 90mm dia. welded with MS ring of 90mm dia and 50mm long, 1.62mm thick for covering the top end of the canopy. The MS canopy and GI bracket should be welded at tentative angel 105° (105 degree) inclination with MS sheet 5mm thick triangular in shape having dimensions 375mm x 150mm x 5mm thick with two coats of an approved aluminium paint as desired by Engineer-in-charge at site.	each	95.14	3559.13	104.65	3568.64
(xvi)	Supply and erection of G.I. pipe 50mm dia. (medium) Triple arm bracket 1.5 metre long each arm welded with MS canopy 125mm inner dia., outer dia 140.8mm (medium), 450mm long suitable for 3 stepped steel tubular swaged and welded pole with top outer section dia. 114.3mm. The MS canopy should have 3no. holes for fixing the bracket at the top end of the pole with the help of 3nos. ½"x1½" size nut bolt of full thread. The bracket should have MS round sheet 3mm thick 142mm dia. welded with MS ring of 142mm dia and 50mm long, 1.62mm thick for covering the top end of the canopy. The MS canopy and GI bracket should be welded at tentative angel 105° (105 degree) inclination with MS sheet 5mm thick triangular in shape having dimensions 225mm x 150mm x 5mm thick with two coats of an approved aluminium paint as desired by Engineer-in-charge at site.	each	115.34	2648.02	126.87	2659.55

Sr. No.	Description	Unit	Plains		Sub Mountainous	
			Labour Rate	Through Rate	Labour Rate	Through Rate
1	2	3	4	5	6	7
(xvii)	Supply and erection of G.I. pipe 50mm dia. (medium) Triple arm bracket 2 metre long each arm welded with MS canopy 125mm inner dia., outer dia 140.8mm (medium), 450mm long suitable for 3 stepped steel tubular swaged and welded pole with top outer section dia. 114.3mm. The MS canopy should have 3no. holes for fixing the bracket at the top end of the pole with the help of 3nos. ½"x1½" size nut bolt of full thread. The bracket should have MS round sheet 3mm thick 142mm dia. welded with MS ring of 142mm dia and 50mm long, 1.62mm thick for covering the top end of the canopy. The MS canopy and GI bracket should be welded at tentative angel 105° (105 degree) inclination with MS sheet 5mm thick triangular in shape having dimensions 300mm x 150mm x 5mm thick with two coats of an approved aluminium paint as desired by Engineer-in-charge at site.	each	115.34	3206.16	126.87	3217.69
(xviii)	Supply and erection of G.I. pipe 50mm dia. (medium) Triple arm bracket 2.5 metre long each arm welded with MS canopy 125mm inner dia., outer dia 140.8mm (medium), 450mm long suitable for 3 stepped steel tubular swaged and welded pole with top outer section dia. 114.3mm. The MS canopy should have 3no. holes for fixing the bracket at the top end of the pole with the help of 3nos. ½"x1½" size nut bolt of full thread. The bracket should have MS round sheet 3mm thick 142mm dia. welded with MS ring of 142mm dia and 50mm long, 1.62mm thick for covering the top end of the canopy. The MS canopy and GI bracket should be welded at tentative angel 105° (105 degree) inclination with MS sheet 5mm thick triangular in shape having dimensions 375mm x 150mm x 5mm thick with two coats of an approved aluminium paint as desired by Engineer-in-charge at site.	each	115.34	3764.33	126.87	3775.86
	<b>FOUR ARM BRACKETS:</b>					
(xix)	Supply and erection of G.I. pipe 50mm dia. (medium) Four arm bracket 1.5 metre long each arm welded with MS canopy 125mm inner dia., outer dia 140.8mm (medium), 450mm long suitable for 3 stepped steel tubular swaged and welded pole with top outer section dia. 114.3mm. The MS canopy should have 3no. holes for fixing the bracket at the top end of the pole with the help of 3nos. ½"x1½" size nut bolt of full thread. The bracket should have MS round sheet 3mm thick 142mm dia. welded with MS ring of 142mm dia and 50mm long, 1.62mm thick for covering the top end of the canopy. The MS canopy and GI bracket should be welded at tentative angel 105° (105 degree) inclination with MS sheet 5mm thick triangular in shape having dimensions 225mm x 150mm x 5mm thick with two coats of an approved aluminium paint as desired by Engineer-in-charge at site.	each	146.70	3366.01	161.37	3380.68

Sr. No.	Description	Unit	Plains		Sub Mountainous	
			Labour Rate	Through Rate	Labour Rate	Through Rate
1	2	3	4	5	6	7
(xx)	Supply and erection of G.I. pipe 50mm dia. (medium) Four arm bracket 2 metre long each arm welded with MS canopy 125mm inner dia., outer dia 140.8mm (medium), 450mm long suitable for 3 stepped steel tubular swaged and welded pole with top outer section dia. 114.3mm. The MS canopy should have 3no. holes for fixing the bracket at the top end of the pole with the help of 3nos. ½"x1½" size nut bolt of full thread. The bracket should have MS round sheet 3mm thick 142mm dia. welded with MS ring of 142mm dia and 50mm long, 1.62mm thick for covering the top end of the canopy. The MS canopy and GI bracket should be welded at tentative angel 105° (105 degree) inclination with MS sheet 5mm thick triangular in shape having dimensions 300mm x 150mm x 5mm thick with two coats of an approved aluminium paint as desired by Engineer-in-charge at site.	each	146.70	4110.21	161.37	4124.88
(xxi)	Supply and erection of G.I. pipe 50mm dia. (medium) Four arm bracket 2.5 metre long each arm welded with MS canopy 125mm inner dia., outer dia 140.8mm (medium), 450mm long suitable for 3 stepped steel tubular swaged and welded pole with top outer section dia. 114.3mm. The MS canopy should have 3no. holes for fixing the bracket at the top end of the pole with the help of 3nos. ½"x1½" size nut bolt of full thread. The bracket should have MS round sheet 3mm thick 142mm dia. welded with MS ring of 142mm dia and 50mm long, 1.62mm thick for covering the top end of the canopy. The MS canopy and GI bracket should be welded at tentative angel 105° (105 degree) inclination with MS sheet 5mm thick triangular in shape having dimensions 375mm x 150mm x 5mm thick with two coats of an approved aluminium paint as desired by Engineer-in-charge at site.	each	146.70	4854.42	161.37	4869.09
	<b>SIX ARM BRACKETS:</b>					
(xxii)	Supply and erection of G.I. pipe 50mm dia. (medium) Six arm bracket 1.5 metre long each arm welded with MS canopy 125mm inner dia., outer dia 140.8mm (medium), 450mm long suitable for 3 stepped steel tubular swaged and welded pole with top outer section dia. 114.3mm. The MS canopy should have 3no. holes for fixing the bracket at the top end of the pole with the help of 3nos. ½"x1½" size nut bolt of full thread. The bracket should have MS round sheet 3mm thick 142mm dia. welded with MS ring of 142mm dia and 50mm long, 1.62mm thick for covering the top end of the canopy. The MS canopy and GI bracket should be welded at tentative angel 105° (105 degree) inclination with MS sheet 5mm thick triangular in shape having dimensions 225mm x 150mm x 5mm thick with two coats of an approved aluminium paint as desired by Engineer-in-charge at site.	each	273.64	4866.22	301.00	4893.58

Sr. No.	Description	Unit	Plains		Sub Mountainous	
			Labour Rate	Through Rate	Labour Rate	Through Rate
1	2	3	4	5	6	7
(xxiii)	Supply and erection of G.I. pipe 50mm dia. (medium) Six arm bracket 2 metre long each arm welded with MS canopy 125mm inner dia., outer dia 140.8mm (medium), 450mm long suitable for 3 stepped steel tubular swaged and welded pole with top outer section dia. 114.3mm. The MS canopy should have 3no. holes for fixing the bracket at the top end of the pole with the help of 3nos. ½"x1½" size nut bolt of full thread. The bracket should have MS round sheet 3mm thick 142mm dia. welded with MS ring of 142mm dia and 50mm long, 1.62mm thick for covering the top end of the canopy. The MS canopy and GI bracket should be welded at tentative angel 105° (105 degree) inclination with MS sheet 5mm thick triangular in shape having dimensions 300mm x 150mm x 5mm thick with two coats of an approved aluminium paint as desired by Engineer-in-charge at site.	each	273.64	5982.53	301.00	6009.89
(xxiv)	Supply and erection of G.I. pipe 50mm dia. (medium) Six arm bracket 2.5 metre long each arm welded with MS canopy 125mm inner dia., outer dia 140.8mm (medium), 450mm long suitable for 3 stepped steel tubular swaged and welded pole with top outer section dia. 114.3mm. The MS canopy should have 3no. holes for fixing the bracket at the top end of the pole with the help of 3nos. ½"x1½" size nut bolt of full thread. The bracket should have MS round sheet 3mm thick 142mm dia. welded with MS ring of 142mm dia and 50mm long, 1.62mm thick for covering the top end of the canopy. The MS canopy and GI bracket should be welded at tentative angel 105° (105 degree) inclination with MS sheet 5mm thick triangular in shape having dimensions 375mm x 150mm x 5mm thick with two coats of an approved aluminium paint as desired by Engineer-in-charge at site.	each	273.64	7098.84	301.00	7126.20
	<b>ROUND BRACKET OF 5' (5 FEET) DIA. :</b>					
(xxv)	Supply and erection of G.I. pipe 50mm dia. (medium) Round bracket to make a ring of 5'(5 feet) dia. (1.52 metre long) with 3nos. inclined member 3' (3 feet) long welded with MS canopy 125mm inner dia., outer dia 140.8mm (medium), 450mm long suitable for 3 stepped steel tubular swaged and welded pole with top outer section dia. 114.3mm. The MS canopy should have 3no. holes for fixing the bracket at the top end of the pole with the help of 3nos. ½"x1½" size nut bolt of full thread. The bracket should have MS round sheet 3mm thick 142mm dia. welded with MS ring of 142mm dia and 50mm long, 1.62mm thick for covering the top end of the canopy. The MS canopy and GI bracket should be welded at an angel according to the size of ring inclination with MS sheet 5mm thick triangular in shape having dimensions 375mm x 150mm x 5mm thick with two coats of an approved aluminium paint as desired by Engineer-in-charge at site.	each	254.10	4514.91	279.51	4540.32
<b>33.30</b>	<b>GALVANIZED STEEL OCTAGONAL POLES FOR WIND VELOCITY OF 160 Km/ HOUR:</b>					

Sr. No.	Description	Unit	Plains		Sub Mountainous	
			Labour Rate	Through Rate	Labour Rate	Through Rate
1	2	3	4	5	6	7
	Supply and erection of galvanized steel octagonal pole of suitable length conforming to IS 2629/IS 2633/ IS4759. The pole shall be in single piece (single hot dip galvanized) and shall tapered towards the top.The bottom section shall have open able slot with exterior surface door & shall have suitable locking arrangement for housing three phase 4wire cable connection, bakelite sheet, MCB, loop in and out arrangement for incoming/ outgoing cables. There shall also be suitable arrangement for the purpose of earthing. Rigid Base plate of suitable size and thickness shall be welded inside and outside at the bottom of pole with provision for fixing 4 foundation bolts.The octagonal pole shall be bolted on a pre- cast foundation with a set of four foundation bolts for greater rigidity. The foundation shall be erected over cement concrete M20 of given size to fixed up to a required planting depth below ground level as required:-					
	(i) Galvanized octagonal pole overall length 4 metre (sheet thickness 3mm), top dia.(A/F) 70mm and bottom dia. (A/F) 130mm, foundation size below ground level 550mm x 550mm x 900mm, 4Nos. foundation bolts size 16mm dia., length≥ 450mm with base plate dimensions 200mm x 200mm x 12mm thick.	each	305.18	11843.18	335.70	11873.70
	(ii) Galvanized octagonal pole overall length 5 metre (sheet thickness 3mm), top dia.(A/F) 70mm and bottom dia. (A/F) 130mm, foundation size below ground level 550mm x 550mm x 1200mm, 4Nos. foundation bolts size 16mm dia., length≥ 600mm with base plate dimensions 200mm x 200mm x 12mm thick.	each	345.22	14070.26	379.74	14104.78
	(iii) Galvanized octagonal pole overall length 6 metre (sheet thickness 3mm), top dia.(A/F) 70mm and bottom dia. (A/F) 130mm, foundation size below ground level 550mm x 550mm x 1200mm, 4Nos. foundation bolts size 20mm dia., length≥ 600mm with base plate dimensions 220mm x 220mm x 12mm thick.	each	345.22	16360.82	379.74	16395.34
	(iv) Galvanized octagonal pole overall length 7 metre (sheet thickness 3mm), top dia.(A/F) 70mm and bottom dia. (A/F) 130mm, foundation size below ground level 550mm x 550mm x 1400mm, 4Nos. foundation bolts size 20mm dia., length≥ 700mm with base plate dimensions 240mm x 240mm x 16mm thick.	each	498.31	18407.22	548.14	18457.05
	(v) Galvanized octagonal pole overall length 8 metre (sheet thickness 3mm), top dia.(A/F) 70mm and bottom dia. (A/F) 135mm, foundation size below ground level 550mm x 550mm x 1500mm, 4Nos. foundation bolts size 20mm dia., length≥ 750mm with base plate dimensions 240mm x 240mm x 16mm thick.	each	498.31	20924.30	548.14	20974.13

Sr. No.	Description	Unit	Plains		Sub Mountainous	
			Labour Rate	Through Rate	Labour Rate	Through Rate
1	2	3	4	5	6	7
	(vi) Galvanized octagonal pole overall length 9 metre (sheet thickness 3mm), top dia.(A/F) 70mm and bottom dia. (A/F) 155mm, foundation size below ground level 600mm x 600mm x 1700mm, 4Nos. foundation bolts size 24mm dia., length≥ 750mm with base plate dimensions 275mm x 275mm x 16mm thick.	each	710.26	25736.79	781.29	25807.82
	(vii) Galvanized octagonal pole overall length 10 metre (sheet thickness 3mm), top dia.(A/F) 70mm and bottom dia. (A/F) 175mm, foundation size below ground level 600mm x 600mm x 1800mm, 4Nos. foundation bolts size 24mm dia., length≥ 750mm with base plate dimensions 275mm x 275mm x 16mm thick.	each	710.26	29533.73	781.29	29604.76
	(viii) Galvanized octagonal pole overall length 11 metre (sheet thickness 3mm), top dia.(A/F) 90mm and bottom dia. (A/F) 210mm, foundation size below ground level 600mm x 600mm x 2000mm, 4Nos. foundation bolts size 24mm dia., length≥ 750mm with base plate dimensions 300mm x 300mm x 20mm thick.	each	922.23	37522.53	1014.45	37614.75
	(ix) Galvanized octagonal pole overall length 12 metre (sheet thickness 3mm), top dia.(A/F) 90mm and bottom dia. (A/F) 240mm, foundation size below ground level 650mm x 650mm x 2200mm, 4Nos. foundation bolts size 24mm dia., length≥ 850mm with base plate dimensions 320mm x 320mm x 20mm thick.	each	922.23	45102.96	1014.45	45195.18
	<b>GALVANIZED OCTAGONAL POLE BRACKETS</b>	each				
	(x) Supply and erection of single arm bracket 1 metre long for 4 to 6 metre long galvanized octagonal pole, the bracket should be fixed on the top of the pole having top outer dia. 70mm (A/F) complete in all respect as approved by the Engineer-in-charge at site.	each	42.97	1411.15	47.27	1415.45
	(xi) Supply and erection of single arm bracket 1 metre long for 7 to 8 metre long galvanized octagonal pole, the bracket should be fixed on the top of the pole having top outer dia. 70mm (A/F) complete in all respect as approved by the Engineer-in-charge at site.	each	53.69	1421.87	59.06	1427.24
	(xii) Supply and erection of single arm bracket 1 metre long for 9 to10 metre long galvanized octagonal pole, the bracket should be fixed on the top of the pole having top outer dia. 70mm (A/F) complete in all respect as approved by the Engineer-in-charge at site.	each	71.59	1439.77	78.75	1446.93
	(xiii) Supply and erection of single arm bracket 1 metre long for 11 to 12 metre long galvanized octagonal pole, the bracket should be fixed on the top of the pole having top outer dia. 70mm (A/F) complete in all respect as approved by the Engineer-in-charge at site.	each	85.90	1702.20	94.49	1710.79

Sr. No.	Description	Unit	Plains		Sub Mountainous	
			Labour Rate	Through Rate	Labour Rate	Through Rate
1	2	3	4	5	6	7
	(xiv) Supply and erection of single arm bracket 1.5 metre long for 4 to 6 metre long galvanized octagonal pole, the bracket should be fixed on the top of the pole having top outer dia. 70mm (A/F) complete in all respect as approved by the Engineer-in-charge at site.	each	42.97	1769.57	47.27	1773.87
	(xv) Supply and erection of single arm bracket 1.5 metre long for 7 to 8 metre long galvanized octagonal pole, the bracket should be fixed on the top of the pole having top outer dia. 70mm (A/F) complete in all respect as approved by the Engineer-in-charge at site.	each	53.69	1780.29	59.06	1785.66
	(xvi) Supply and erection of single arm bracket 1.5 metre long for 9 to 10 metre long galvanized octagonal pole, the bracket should be fixed on the top of the pole having top outer dia. 70mm (A/F) complete in all respect as approved by the Engineer-in-charge at site.	each	71.59	1798.19	78.75	1805.35
	(xvii) Supply and erection of single arm bracket 1.5 metre long for 11 to 12 metre long galvanized octagonal pole, the bracket should be fixed on the top of the pole having top outer dia. 70mm (A/F) complete in all respect as approved by the Engineer-in-charge at site.	each	85.90	2058.33	94.49	2066.92
	(xviii) Supply and erection of single arm bracket 2 metre long for 4 to 6 metre long galvanized octagonal pole, the bracket should be fixed on the top of the pole having top outer dia. 70mm (A/F) complete in all respect as approved by the Engineer-in-charge at site.	each	42.97	2188.86	47.27	2193.16
	(xix) Supply and erection of single arm bracket 2 metre long for 7 to 8 metre long galvanized octagonal pole, the bracket should be fixed on the top of the pole having top outer dia. 70mm (A/F) complete in all respect as approved by the Engineer-in-charge at site.	each	53.69	2199.58	59.06	2204.95
	(xx) Supply and erection of single arm bracket 2 metre long for 9 to 10 metre long galvanized octagonal pole, the bracket should be fixed on the top of the pole having top outer dia. 70mm (A/F) complete in all respect as approved by the Engineer-in-charge at site.	each	71.59	2217.48	78.75	2224.64
	(xxi) Supply and erection of single arm bracket 2 metre long for 11 to 12 metre long galvanized octagonal pole, the bracket should be fixed on the top of the pole having top outer dia. 70mm (A/F) complete in all respect as approved by the Engineer-in-charge at	each	85.90	2479.92	94.49	2488.51
	(xxii) Supply and erection of double arm bracket 1 metre long for 4 to 6 metre long galvanized octagonal pole, the bracket should be fixed on the top of the pole having top outer dia. 70mm (A/F) complete in all respect as approved by the Engineer-in-charge at site.	each	53.69	2189.23	59.06	2194.60



Sr. No.	Description	Unit	Plains		Sub Mountainous	
			Labour Rate	Through Rate	Labour Rate	Through Rate
1	2	3	4	5	6	7
(xxiii)	Supply and erection of double arm bracket 1 metre long for 7 to 8 metre long galvanized octagonal pole, the bracket should be fixed on the top of the pole having top outer dia. 70mm (A/F) complete in all respect as approved by the Engineer-in-charge at site.	each	71.59	2207.13	78.75	2214.29
(xxiv)	Supply and erection of double arm bracket 1 metre long for 9 to 10 metre long galvanized octagonal pole, the bracket should be fixed on the top of the pole having top outer dia. 70mm (A/F) complete in all respect as approved by the Engineer-in-charge at site.	each	85.90	2221.44	94.49	2230.03
(xxv)	Supply and erection of double arm bracket 1 metre long for 11 to 12 metre long galvanized octagonal pole, the bracket should be fixed on the top of the pole having top outer dia. 70mm (A/F) complete in all respect as approved by the Engineer-in-charge at site.	each	107.38	2489.91	118.12	2500.65
(xxvi)	Supply and erection of double arm bracket 1.5 metre long for 4 to 6 metre long galvanized octagonal pole, the bracket should be fixed on the top of the pole having top outer dia. 70mm (A/F) complete in all respect as approved by the Engineer-in-charge at site.	each	53.69	2902.62	59.06	2907.99
(xxvii)	Supply and erection of double arm bracket 1.5 metre long for 7 to 8 metre long galvanized octagonal pole, the bracket should be fixed on the top of the pole having top outer dia. 70mm (A/F) complete in all respect as approved by the Engineer-in-charge at site.	each	71.59	2920.52	78.75	2927.68
(xxviii)	Supply and erection of double arm bracket 1.5 metre long for 9 to 10 metre long galvanized octagonal pole, the bracket should be fixed on the top of the pole having top outer dia. 70mm (A/F) complete in all respect as approved by the Engineer-in-charge at site.	each	85.90	2934.83	94.49	2943.42
(xxix)	Supply and erection of double arm bracket 1.5 metre long for 11 to 12 metre long galvanized octagonal pole, the bracket should be fixed on the top of the pole having top outer dia. 70mm (A/F) complete in all respect as approved by the Engineer-in-charge at site.	each	107.38	3204.43	118.12	3215.17
(xxx)	Supply and erection of double arm bracket 2 metre long for 4 to 6 metre long galvanized octagonal pole, the bracket should be fixed on the top of the pole having top outer dia. 70mm (A/F) complete in all respect as approved by the Engineer-in-charge at site.	each	53.69	3745.80	59.06	3751.17
(xxxi)	Supply and erection of double arm bracket 2 metre long for 7 to 8 metre long galvanized octagonal pole, the bracket should be fixed on the top of the pole having top outer dia. 70mm (A/F) complete in all respect as approved by the Engineer-in-charge at site.	each	71.59	3763.70	78.75	3770.86

Sr. No.	Description		Unit	Plains		Sub Mountainous	
				Labour Rate	Through Rate	Labour Rate	Through Rate
1	2		3	4	5	6	7
	(xxxii)	Supply and erection of double arm bracket 2 metre long for 9 to 10 metre long galvanized octagonal pole, the bracket should be fixed on the top of the pole having top outer dia. 70mm (A/F) complete in all respect as approved by the Engineer-in-charge at site.	each	85.90	3778.01	94.49	3786.60
	(xxxiii)	Supply and erection of double arm bracket 2 metre long for 11 to 12 metre long galvanized octagonal pole, the bracket should be fixed on the top of the pole having top outer dia. 70mm (A/F) complete in all respect as approved by the Engineer-in-charge at site.	each	107.38	4046.47	118.12	4057.21
<b>33.31A</b>	<b>3-STEPPED STEEL TUBULAR POLE:</b>						
		Supply and erection of 3-Stepped steel tubular swaged and welded pole of suitable length conforming to I.S. 2713-1969 (Part I to III) / 1980 to fixed up to a required planting depth below ground level in a hole of excavation about 45 cm dia. and suitable depth to filled in up to 15 cm below G/L with 1:2:4 cement concrete mixture and having 1:2:4 cement concrete muff of dia. 450mm, 80cm long above ground level sufficient to completely flush a MCB distribution board SPN 4way (double door) with hinged water tight cover with locking arrangement having one single pole MCB of required capacity fixed on din bar. The outer surface of the plinth to be finished with pure cement including painting of pole with two coats of approved aluminium paint as required:-					
	(i)	Overall length 7 metre, with planting depth 1.25 metre, length of sections 4 metre, 1.5 metre and 1.5 metre (Bottom, Middle and Top respectively), Outer dia and thickness of sections 127mm x 4.5mm, 101.6mm x 3.65mm and 76.1mm x 3.25mm (Bottom, Middle and Top respectively) with approximate weight 74 kg and base plate weight 12 kg. of size 12mm thick about 30 cm dia.		648.32	8638.48	713.15	8703.31
	(ii)	Overall length 8 metre, with planting depth 1.5 metre, length of sections 4.5 metre, 1.75 metre and 1.75 metre (Bottom, Middle and Top respectively), Outer dia and thickness of sections 127mm x 4.5mm, 101.6mm x 3.65mm and 76.1mm x 3.25mm (Bottom, Middle and Top respectively) with approximate weight 84 kg and base plate weight 12 kg. of size 12mm thick about 30 cm dia.		673.22	9541.69	740.54	9609.01
	(iii)	Overall length 8.5 metre, with planting depth 1.5 metre, length of sections 4 metre, 2.25 metre and 2.25 metre (Bottom, Middle and Top respectively), Outer dia and thickness of sections 168.3mm x 4.5mm, 139.7mm x 4.5mm and 114.3mm x 3.65mm (Bottom, Middle and Top respectively) with approximate weight 126 kg and base plate weight 12 kg. of size 12mm thick about 30 cm dia.		677.92	12282.93	745.71	12350.72

Sr. No.	Description		Unit	Plains		Sub Mountainous	
				Labour Rate	Through Rate	Labour Rate	Through Rate
1	2		3	4	5	6	7
	(iv)	Overall length 9 metre , with planting depth 1.5 metre, length of sections 4.5 metre, 2.25 metre and 2.25 metre (Bottom , Middle and Top respectively), Outer dia and thickness of sections 168.3mm x 4.85mm, 139.7mm x 4.5mm and 114.3mm x 3.65mm (Bottom, Middle and Top respectively) with approximate weight 152 kg and base plate weight 12 kg. of size 12mm thick about 30 cm dia.		677.92	13997.89	745.71	14065.68
	(v)	Overall length 9.5 metre , with planting depth 1.8 metre, length of sections 4.5metre, 2.50metre and 2.50metre (Bottom , Middle and Top respectively), Outer dia and thickness of sections 168.3mm x 4.85mm, 139.7mm x 4.5mm and 114.3mm x 3.65mm (Bottom, Middle and Top respectively) with approximate weight 158 kg and base plate weight 12 kg. of size 12mm thick about 30 cm dia.		683.82	14616.63	752.20	14685.01
	(vi)	Overall length 10 metre , with planting depth 1.8 metre, length of sections 5 metre, 2.50 metre and 2.50 metre (Bottom , Middle and Top respectively), Outer dia and thickness of sections 168.3mm x 4.85mm, 139.7mm x 4.5mm and 114.3mm x 4.5mm (Bottom, Middle and Top respectively) with approximate weight 168 kg and base plate weight 12 kg. of size 12mm thick about 30 cm dia.		683.82	15280.35	752.20	15348.73
<b>33.31 B</b>		Supply and erection of 3-Stepped steel tubular swaged and welded pole of suitable length conforming to I.S. 1161-1979 (UTS 42 kgf/mm sq.) to fixed up to a required planting depth below ground level in a RCC readymade muff of suitable length and dia. as described under the required sub-head here under. The gap between the pole and muff is to be filled with 1:2:4 cement concrete as required at site:-					
	(i)	Overall length 7 metre, with planting depth 1.25 metre (in 1.25 metre long 200mm dia RCC ready made muff), length of sections 4 metre,1.5 metre and 1.5 metre (Bottom, Middle and Top respectively), Outer dia and thickness of sections 114.3mm x 4.5mm, 88.9mm x 4.05mm and 76.1mm x 3.25mm (Bottom, Middle and Top respectively) with approximate weight 73 kg. (410 SP-2)	each	510.31	5706.67	561.34	5757.70
	(ii)	Overall length 7.5 metre, with planting depth 1.25 metre (in 1.25 metre long 200mm dia RCC ready made muff), length of sections 4.5 metre,1.5 metre and 1.5 metre (Bottom, Middle and Top respectively), Outer dia and thickness of sections 114.3mm x 4.5mm, 88.9mm x 4.05mm and 76.1mm x 3.25mm (Bottom, Middle and Top respectively) with approximate weight 79 kg. (410 SP-5)	each	510.31	6104.90	561.34	6155.93
	(iii)	Overall length 8 metre, with planting depth 1.5 metre (in 1.5 metre long 200mm dia RCC ready made muff), length of sections 4.5 metre,1.75 metre and 1.75 metre (Bottom, Middle and Top respectively), Outer dia and thickness of sections 139.7mm x 4.5mm, 114.3mm x 3.65mm and 88.9mm x 3.25mm (Bottom, Middle and Top respectively) with approximate weight 97 kg. (410 SP-7)	each	510.31	7441.41	7492.44	0.00

Sr. No.	Description	Unit	Plains		Sub Mountainous	
			Labour Rate	Through Rate	Labour Rate	Through Rate
1	2	3	4	5	6	7
(iv)	Overall length 8 metre, with planting depth 1.5 metre (in 1.5 metre long 200mm dia RCC ready made muff), length of sections 4.5 metre, 1.75 metre and 1.75 metre (Bottom, Middle and Top respectively), Outer dia and thickness of sections 139.7mm x 5.4mm, 114.3mm x 4.5mm and 88.9mm x 3.25mm (Bottom, Middle and Top respectively) with approximate weight 119 kg. (410 SP-15)	each	510.31	8930.24	561.34	8981.27
(v)	Overall length 8.5 metre, with planting depth 1.5 metre (in 1.5 metre long 300mm dia RCC ready made muff), length of sections 5 metre, 1.75 metre and 1.75 metre (Bottom, Middle and Top respectively), Outer dia and thickness of sections 165.1mm x 4.5mm, 139.7mm x 4.5mm and 114.3mm x 3.65mm (Bottom, Middle and Top respectively) with approximate weight 141 kg. (410 SP-22)	each	510.31	10259.57	561.34	10310.60
(vi)	Overall length 9 metre, with planting depth 1.5 metre (in 1.5 metre long 200mm dia RCC ready made muff), length of sections 5 metre, 2 metre and 2metre (Bottom, Middle and Top respectively), Outer dia and thickness of sections 114.3mm x 5.4mm, 88.9mm x 4.85mm and 76.1mm x 3.25mm (Bottom, Middle and Top respectively) with approximate weight 108 kg. (410 SP-27)	each	510.31	8200.13	561.34	8251.16
(vii)	Overall length 9 metre, with planting depth 1.5 metre (in 1.5 metre long 300mm dia RCC ready made muff), length of sections 5 metre, 2 metre and 2metre (Bottom, Middle and Top respectively), Outer dia and thickness of sections 165.1mm x 139.7mm, 4.5mm x 114.3mm and 3.65mm (Bottom, Middle and Top respectively) with approximate weight 154 kg. (410 SP-32)	each	510.31	11253.28	561.34	11304.31
(viii)	Overall length 10 metre, with planting depth 1.8 metre (2.00 metre long 300mm dia RCC ready made muff), length of sections 5.20 metre, 2.4 metre and 2.4metre (Bottom, Middle and Top respectively), Outer dia and thickness of sections 165.1mm x 4.85mm, 139.7mm x 4.5mm and 114.3mm x 3.65mm (Bottom, Middle and Top respectively) with approximate weight 168 kg. (410 SP-44)	each	510.31	12271.14	561.34	12322.17
(ix)	Overall length 11 metre, with planting depth 1.8 metre (in 2.00 metre long 300mm dia RCC ready made muff), length of sections 5.6 metre, 2.7 metre and 2.7metre (Bottom, Middle and Top respectively), Outer dia and thickness of sections 165.1mm x 5.4mm, 139.7mm x 4.5mm and 114.3mm x 3.65mm (Bottom, Middle and Top respectively) with approximate weight 194 kg. (410 SP-54)	each	510.31	13996.84	561.34	14047.87
(x)	Overall length 12 metre, with planting depth 2 metre (in 2.00 metre long 350mm dia RCC ready made muff), length of sections 5.8 metre, 3.1 metre and 3.1metre (Bottom, Middle and Top respectively), Outer dia and thickness of sections 193.7mm x 5.4mm, 165.1mm x 4.5mm and 139.7mm x 4.5mm (Bottom, Middle and Top respectively) with approximate weight 259 kg. (410 SP-62)	each	510.31	18538.50	561.34	18589.53

Sr. No.	Description		Unit	Plains		Sub Mountainous	
				Labour Rate	Through Rate	Labour Rate	Through Rate
1	2		3	4	5	6	7
	(xi)	Overall length 13 metre, with planting depth 2 metre (in 2.00 metre long 350mm dia RCC ready made muff), length of sections 5.8 metre, 3.6 metre and 3.6metre (Bottom, Middle and Top respectively), Outer dia and thickness of sections 219.1mm x 5.6mm, 193.7mm x 4.85mm and 165.1mm x 4.5mm (Bottom, Middle and Top respectively) with approximate weight 333 kg. (410 SP-71)	each	510.31	23450.09	561.34	23501.12
	(xii)	Overall length 16 metre, with planting depth 2 metre (in 2.00 metre long 400mm dia RCC ready made muff), length of sections 7 metre, 4.5 metre and 4.5metre (Bottom, Middle and Top respectively), Outer dia and thickness of sections 219.1mm x 5.9mm, 193.7mm x 4.85mm and 165.1mm x 4.50mm (Bottom, Middle and Top respectively) with approximate weight 405 kg. (410 SP-79)	each	510.31	28271.79	561.34	28322.82
<b>33.32</b>	<b>PCC POLES:</b>						
	<b>Supply and erection of pre-stressed cement concrete pole of suitable length with a given planting depth confirming to IS1678-1978 below ground level in excavated pit of suitable dimension complete in all respect as per satisfaction of Engineer-in-charge.</b>						
	(i)	PCC pole overall length 8 metre, planting depth 1.5 metre, top dimensions 90mm x 145mm, bottom dimensions 90mm x 220mm, load capacity 200 kg and weight 380 kg.	each	354.17	2587.53	389.59	2622.95
	(ii)	PCC pole overall length 9 metre, planting depth 1.83 metre, top dimensions 105mm x 115mm, bottom dimensions 105mm x 315mm, load capacity 200 kg and weight 478 kg.	each	421.52	2910.50	463.67	2952.65
	(iii)	PCC pole overall length 11 metre, planting depth 1.83 metre, top dimensions 152.4mm x 203.2mm, bottom dimensions 152.4mm x 368.3mm, load capacity 363 kg and weight 1146 kg.	each	492.28	6555.19	541.51	6604.42
<b>33.33</b>	<b>LAYING OF UNDER GROUND CABLES, DISMANTLING &amp; ERECTION OF POLES AND CEMENT CONCRETE MUFFS:</b>						
	(i)	Laying of under ground cable to be laid 1 metre below ground level including excavation, sand cushioning, covering with sand & bricks and back filling the trench etc.	m	38.96	90.71	42.86	94.61
	(ii)	Labour for dismantling G.I. pipe pole upto length 6.1 m.	each	158.43	158.43	174.27	174.27
	(iii)	Labour for dismantling 3-stepped steel tubular pole upto 16m.	each	520.94	520.94	573.03	573.03
	(iv)	Erection of G.I. pipe pole upto 6 m length in cement concrete 1:2:4 up to ground level but excluding cost of pole including two coats of approved aluminium paint etc.	each	144.86	686.39	159.35	700.88

Sr. No.	Description		Unit	Plains		Sub Mountainous	
				Labour Rate	Through Rate	Labour Rate	Through Rate
1	2		3	4	5	6	7
	(v)	Erection of 3 stepped steel tubular pole upto 10 m length in cement concrete 1:2:4 up to ground level but excluding cost of pole including two coats of approved aluminium paint etc.	each	212.90	1468.90	234.19	1490.19
	(vi)	Making of cement concrete muff of overall size 450mmdia., 45cm long (15cm below ground level) with 1:2:4 cement concrete mixture. The muff is to be made around the steel tubular pole/ GI pipe pole. The outer surface of the muff shall be finished with 1:2 cement plaster with two coats of white snowcem complete in all respect as approved and desired by the Engineer In-Charge at site.	each	31.68	392.34	34.85	395.51
	(vii)	Making of cement concrete muff of overall size 450mmdia., 60cm long (15cm below ground level) with 1:2:4 cement concrete mixture. The muff is to be made around the steel tubular pole/ GI pipe pole. The outer surface of the muff shall be finished with 1:2 cement plaster with two coats of white snowcem complete in all respect as approved and desired by the Engineer In-Charge at site.	each	39.29	502.77	43.22	506.70
	(viii)	Making of CC muff of overall size 450mm dia., 80cm long with 1:2:4 CC mixture. The muff is to be made around the steel tubular pole sufficient to completely flush a MCB DB SPN 4way (DD) with hinged water tight cover with locking arrangement having 1SP MCB of reqd.capacity fixed on din bar. The MCB DB is to be fixed with the pole by a MS flat clamp of size 20mmx2mm thick. The Box shall be fitted with bakelite strip size 8"x1"x3/8" deep fixed with the help of steel screws. 4 Nos. Brass links(3way)of size 1/2"x1/2" is to be fixed on the bakelite strip with the help of steel screws.PVC pipe40mm dia.(2No.x0.60m) should be provided for incoming and outgoing cables. The outer surface of the muff shall be finished with pure cement & 2 coats of white snowcem and making an extra collar will be provided with 1:2:4 Cement Sand & Concrete mixture around the Steel tubular pole. The size of collar (height is 16"&dia is 12" including pole dia i.e. 168.3mm) complete in all respect.	each	52.81	502.77	43.22	506.70
	(ix)	Making of cement concrete muff of overall size 450mmdia., 45cm long with 1:2:4 cement concrete mixture. The muff is to be made around the steel tubular pole/ GI pipe pole. The outer surface of the muff shall be finished with pure cement and two coats of white snowcem complete in all respect as approved and desired by the Engineer In-Charge at site.	each	31.68	392.34	34.85	395.51

Sr. No.	Description	Unit	Plains		Sub Mountainous	
			Labour Rate	Through Rate	Labour Rate	Through Rate
1	2	3	4	5	6	7
	(x) Making of cement concrete muff of overall size 450mmdia., 60cm long with 1:2:4 cement concrete mixture. The muff is to be made around the steel tubular pole/ GI pipe pole. The outer surface of the muff shall be finished with pure cement and two coats of white snowcem complete in all respect as approved and desired by the Engineer In-Charge at site.	each	52.81	516.29	58.09	521.57
	(xi) Making of cement concrete muff of overall size 450mm dia., 80cm long with 1:2:4 cement concrete mixture. The muff is to be made around the steel tubular pole sufficient to completely flush a MCB distribution board SPN 4way (double door IP54) with hinged water tight cover with locking arrangement having two single pole MCB of required capacity fixed on din bar. The MCB distribution board is to be fixed with the pole by a MS flat clamp of size 20mm x 3mm thick. PVC pipe 40 mm dia. (2 No. x 0.60 m) should be provided for incoming and outgoing cables. The outer surface of the muff shall be finished with pure cement and two coats of white snowcem complete in all respect as approved and desired by the Engineer In-Charge at site.	each	63.37	1603.90	69.71	1610.24
<b>33.34</b>	<b>OVER HEAD DISTRIBUTION ALUMINIUM CABLES &amp; ACSR CONDUCTORS:</b>					
	(i) <b>Wiring over-head line in two single core cable with aluminium conductor insulated with P.V.C. and P.V.C. sheathed overall 1100 volts grade on G.I. wire 4mm dia. with brass/ aluminium link clips cable.</b>					
	(a) PVC insulated & PVC sheathed two single core aluminium conductor cable overall 1100 volts grade size 4mm <sup>2</sup> (1/1.40mm)	m	4.29	26.47	4.72	26.90
	(b) PVC insulated & PVC sheathed two single core aluminium conductor cable overall 1100 volts grade size 6mm <sup>2</sup> (1/1.40mm)	m	4.29	30.51	4.72	30.94
	(c) PVC insulated & PVC sheathed two single core aluminium conductor cable overall 1100 volts grade size 10mm <sup>2</sup> (1/1.40mm)	m	4.29	38.69	4.72	39.12
	(d) PVC insulated & PVC sheathed two single core aluminium conductor cable overall 1100 volts grade size 16mm <sup>2</sup> (1/1.40mm)	m	4.29	58.21	4.72	58.64
	(ii) Supply & erection of dead end clamps of di-cast Aluminium (size 20-100sq. mm) for making T line end terminal including cost of nuts & bolts etc. complete in all respect as approved by the Engineer-in-Charge.	each	40.82	238.66	44.90	242.74

Sr. No.	Description		Unit	Plains		Sub Mountainous	
				Labour Rate	Through Rate	Labour Rate	Through Rate
1	2		3	4	5	6	7
	(iii)	Supply & erection of PG di-cast Aluminium suitable for ACSR conductor size 30-50sq. mm for making T/lines ends including cost of nut and bolts etc. as approved by Engineer-in-charge.	each	40.82	98.26	44.90	102.34
	(iv)	Supply & erection of PG di-cast Aluminium suitable for ACSR conductor size 80-100sq. mm for making T/lines ends including cost of nut and bolts etc. as approved by Engineer-in-charge.	each	40.82	136.55	44.90	140.63
	(v)	Supply & erection of PVC insulated PVC sheathed aluminium conductor single core cable size 50sq. mm for providing jumpering arrangement on overhead lines.	each	20.39	95.57	22.43	97.61
	(vi)	Supply & erection of PVC insulated PVC sheathed aluminium conductor single core cable size 70sq. mm for providing jumpering arrangement on overhead lines.	each	20.39	117.23	22.43	119.27
	(vii)	Supply & erection of PVC insulated PVC sheathed aluminium conductor single core cable size 120sq. mm for providing jumpering arrangement on overhead lines.	each	20.39	182.41	22.43	184.45
<b>33.34 A</b>	<b>S/E of LT Joint Kit/ Termination for outdoor supply of 1.1 KV grade PVC/XLPE cable as desired by the Engineer in charge of</b>						
	(i)	Outdoor/Indoor Cast Resin Type Jointing Kit for Cable Size 2 core 16 sq. mm - 35 sq. mm	Each	40.82	599.89	44.90	603.97
	(ii)	Outdoor/Indoor Cast Resin Type Jointing Kit for Cable Size 2 core 50 sq. mm - 70 sq. mm	Each	40.82	672.64	44.90	676.72
	(iii)	Outdoor/Indoor Cast Resin Type Jointing Kit for Cable Size 3 core 16 sq. mm - 25 sq. mm	Each	81.66	640.73	89.83	648.90
	(iv)	Outdoor/Indoor Cast Resin Type Jointing Kit for Cable Size 3 core 35 sq. mm - 70 sq. mm	Each	102.05	733.87	112.26	744.08
	(v)	Outdoor/Indoor Cast Resin Type Jointing Kit for Cable Size 3 core 95 sq. mm - 185 sq. mm	Each	204.14	878.08	224.55	898.49
	(vi)	Outdoor/Indoor Cast Resin Type Jointing Kit for Cable Size 3 core 240 sq. mm - 300 sq. mm	Each	204.14	1238.03	224.55	1258.44
	(vii)	Outdoor/Indoor Cast Resin Type Jointing Kit for Cable Size 3½ core 25 sq. mm - 50 sq. mm	Each	102.05	733.87	112.26	744.08
	(viii)	Outdoor/Indoor Cast Resin Type Jointing Kit for Cable Size 3½ core 70 sq. mm - 150 sq. mm	Each	204.14	878.08	224.55	898.49
	(ix)	Outdoor/Indoor Cast Resin Type Jointing Kit for Cable Size 3½ core 185 sq. mm - 300 sq. mm	Each	408.23	1442.12	449.05	1482.94
	(x)	Outdoor/Indoor Cast Resin Type Jointing Kit for Cable Size 3½ core 400 sq. mm	Each	408.23	1541.67	449.05	1582.49
<b>33.34 B</b>	<b>S/E of LT Straight Through Joint Kit/ Termination for 1.1 KV grade PVC/XLPE cable as desired by the Engineer in charge of</b>						
	(i)	Straight Through Joint Kit for Cable Size 2 core 16 sq. mm - 35 sq. mm	Each	40.82	584.57	44.90	588.65
	(ii)	Straight Through Joint Kit for Cable Size 2 core 50 sq. mm - 70 sq. mm	Each	40.82	684.12	44.90	688.20
	(iii)	Straight Through Joint Kit for Cable Size 3 core 16 sq. mm - 25 sq. mm	Each	81.66	625.41	89.83	633.58
	(iv)	Straight Through Joint Kit for Cable Size 3 core 35 sq. mm - 70 sq. mm	Each	102.05	745.35	112.26	755.56
	(v)	Straight Through Joint Kit for Cable Size 3 core 95 sq. mm	Each	204.14	931.69	224.55	952.10



Sr. No.	Description		Unit	Plains		Sub Mountainous	
				Labour Rate	Through Rate	Labour Rate	Through Rate
1	2		3	4	5	6	7
	(vi)	Straight Through Joint Kit for Cable Size 3 core 120 sq. mm - 150 sq. mm	Each	6.12	810.26	6.73	810.87
	(vii)	Straight Through Joint Kit for Cable Size 3 core 185 sq. mm	Each	204.14	1329.93	224.55	1350.34
	(viii)	Straight Through Joint Kit for Cable Size 3 core 240 sq. mm	Each	204.14	1613.29	224.55	1633.70
	(ix)	Straight Through Joint Kit for Cable Size 3 core 300 sq. mm	Each	204.14	1812.40	224.55	1832.81
	(x)	Straight Through Joint Kit for Cable Size 3½ core 25 sq. mm - 35 sq. mm	Each	102.05	745.35	112.26	755.56
	(xi)	Straight Through Joint Kit for Cable Size 3½ core 50 sq. mm	Each	102.05	775.99	112.26	786.20
	(xii)	Straight Through Joint Kit for Cable Size 3½ core 70 sq. mm - 95 sq. mm	Each	204.14	931.69	224.55	952.10
	(xiii)	Straight Through Joint Kit for Cable Size 3½ core 120 sq. mm - 150 sq. mm	Each	204.14	1008.28	224.55	1028.69
	(xiv)	Straight Through Joint Kit for Cable Size 3½ core 185 sq. mm	Each	204.14	1452.46	224.55	1472.87
	(xv)	Straight Through Joint Kit for Cable Size 3½ core 240 sq. mm	Each	408.23	2016.49	449.05	2057.31
	(xvi)	Straight Through Joint Kit for Cable Size 3½ core 300 sq. mm	Each	408.23	2169.67	449.05	2210.49
<b>33.34</b>	<b>Supply, stringing and sagging of aluminium conductor steel reinforced (ACSR) on poles including binding with insulators</b>						
	(i)	ACSR-WEASEL conductor (30 sq. mm) Size (6/2.55 Al.+1/2.55mm GI)	Metre	2.65	21.60	2.92	21.87
	(ii)	ACSR-RABIT conductor (50 sq. mm) Size (6/3.35 Al.+1/3.35mm GI)	Metre	3.32	34.66	3.65	34.99
	(iii)	ACSR-RACOON conductor (80 sq. mm) Size (6/4.09 Al.+1/4.09mm GI)	Metre	4.09	50.72	4.50	51.13
	(iv)	ACSR-DOG conductor (100 sq. mm) Size (6/4.55 Al.+1/4.55mm GI)	Metre	5.93	67.95	6.52	68.54
<b>33.35</b>	<b>OVER HEAD DISTRIBUTION INSULATORS, STAY SETS &amp; CRADLE GUARDS:</b>						
	(i)	Supply & erection of Egg/ strain insulator as required at site confirming to ISI specifications as approved by Engineer-in-charge.	each	20.39	58.69	22.43	60.73
	(ii)	Supply & erection of 11 KV pin insulator with GI pin confirming to ISI specifications. The item includes supply and erection of nuts bolts and other accessories whatsoever required at site for fixing it to the structure pole. The job is to be completed as approved by Engineer-in-charge.	each	20.39	205.47	22.43	207.51
	(iii)	Supply & erection of 11 KV disc insulator confirming to ISI specifications. The item includes supply and erection of nuts bolts and other accessories whatsoever required at site for fixing it to the structure pole. The job is to be completed as approved by Engineer-in-charge.	each	40.82	417.81	44.90	421.89
	(iv)	Supply & erection of shackle insulator (medium) with fixing bolts and nuts confirming to relevant ISI specifications as approved by Engineer-in-charge.	each	20.39	72.36	22.43	74.40

Sr. No.	Description	Unit	Plains		Sub Mountainous	
			Labour Rate	Through Rate	Labour Rate	Through Rate
1	2	3	4	5	6	7
	(v) Supply & erection of 11 KV lighting arrestor conforming to ISI specifications. The item includes supply and erection of clamps of required size with nut and bolts and a separate earth to be provided to the lighting arrestor complete as approved by Engineer-in-charge.	each	40.82	3040.37	44.90	3044.45
	(vi) Supply & erection of stay set consisting of 19/20mm dia. 1.8 metre long G.I. stay rod duly threaded upto 300mm at one end and shped on the other end. MS plate size 30cm x 30cm x 6mm with 20mm dia. hole drilled in the centre of the plate G.I. stay wire size 7/10 SWG, G.I. thimble for stay, binding, Egg/Strain insulator, MS elbow made out of 16mm plain sheet and a piece of 50mm x 50mm x 6mm size 20cm long angle iron made to the shape as approved by Engineer-in-charge. Stay set complete shall be fixed to the pole by providing suitable size full clamps made out 50mm x 6mm size MS flat with required number of nut and bolts 16mm dia. on one end and shall be embedded in the on the other end. The stay plate shall be covered with cement concrete having total volume of the concrete not less that 0.042Cum. The job shall include excavation of pit and back filling and after pouring concrete with excavated soil etc. as approved/desired by the the Engineer-in-charge.	each	387.84	1961.88	426.62	2000.66
	(vii) Supply & erection of stay set consisting of 19/20mm dia. 2.4 metre long G.I. stay rod duly threaded upto 300mm at one end and shped on the other end. MS plate size 30cm x 30cm x 6mm with 20mm dia. hole drilled in the centre of the plate G.I. stay wire size 7/10 SWG, G.I. thimble for stay, binding, Egg/Strain insulator, MS elbow made out of 16mm plain sheet and a piece of 50mm x 50mm x 6mm size 20cm long angle iron made to the shape as approved by Engineer-in-charge. Stay set complete shall be fixed to the pole by providing suitable size full clamps made out 50mm x 6mm size MS flat with required number of nut and bolts 16mm dia. on one end and shall be embedded in the on the other end. The stay plate shall be covered with cement concrete having total volume of the concrete not less that 0.042Cum. The job shall include excavation of pit and back filling and after pouring concrete with excavated soil etc. as approved/desired by the the Engineer-in-charge.	each	387.84	2024.72	426.62	2063.50
	(viii) Supply & erection of cradle guard suitable for 2 lines overhead line as required at site as approved by Engineer-in-charge.	each	20.39	39.82	22.43	41.86
	(ix) Supply & erection of cradle guard suitable for 4 lines overhead line as required at site as approved by Engineer-in-charge.	each	20.39	43.80	22.43	45.84
<b>33.36 A</b>	<b>XLPE INSULATED HT ARMoured CABLES</b>					

Sr. No.	Description	Unit	Plains		Sub Mountainous	
			Labour Rate	Through Rate	Labour Rate	Through Rate
1	2	3	4	5	6	7
	Supply & laying of Circular Aluminium conductor, conductor screened with extruded semiconducting compound, XLPE insulated, insulation screened with extruded semiconducting combination in combination with copper tape (0.3KA for 1sec.) cores laid up, FRLS PVC inner sheathed, galvanised steel strip armoured and overall FRLS PVC sheathed cable confirming to IS:7098/II/85 working voltage 11KV(UE) grade to be laid 1 m below ground level including excavation, sand cushioning, covering with sand & bricks and back filling the trench etc., of the required size:-					
	(i) Circular Aluminium conductor, conductor screened with extruded semiconducting compound, XLPE insulated, insulation screened with extruded semiconducting combination in combination with copper tape (0.3KA for 1sec.) cores laid up, FRLS PVC inner sheathed, galvanised steel strip armoured and overall FRLS PVC sheathed cable confirming to IS:7098/II/85 working voltage 11KV(UE) grade 35sq.mm (Three Core)	each	53.25	866.25	58.58	871.58
	(ii) Circular Aluminium conductor, conductor screened with extruded semiconducting compound, XLPE insulated, insulation screened with extruded semiconducting combination in combination with copper tape (0.3KA for 1sec.) cores laid up, FRLS PVC inner sheathed, galvanised steel strip armoured and overall FRLS PVC sheathed cable confirming to IS:7098/II/85 working voltage 11KV(UE) grade 50sq.mm (Three Core)	each	53.25	951.91	58.58	957.24
	(iii) Circular Aluminium conductor, conductor screened with extruded semiconducting compound, XLPE insulated, insulation screened with extruded semiconducting combination in combination with copper tape (0.3KA for 1sec.) cores laid up, FRLS PVC inner sheathed, galvanised steel strip armoured and overall FRLS PVC sheathed cable confirming to IS:7098/II/85 working voltage 11KV(UE) grade 70sq.mm (Three Core)	each	65.49	1066.59	72.04	1073.14
	(iv) Circular Aluminium conductor, conductor screened with extruded semiconducting compound, XLPE insulated, insulation screened with extruded semiconducting combination in combination with copper tape (0.3KA for 1sec.) cores laid up, FRLS PVC inner sheathed, galvanised steel strip armoured and overall FRLS PVC sheathed cable confirming to IS:7098/II/85 working voltage 11KV(UE) grade 95sq.mm (Three Core)	each	65.49	1142.06	72.04	1148.61
	(v) Circular Aluminium conductor, conductor screened with extruded semiconducting compound, XLPE insulated, insulation screened with extruded semiconducting combination in combination with copper tape (0.3KA for 1sec.) cores laid up, FRLS PVC inner sheathed, galvanised steel strip armoured and overall FRLS PVC sheathed cable confirming to IS:7098/II/85 working voltage 11KV(UE) grade 120sq.mm (Three Core)	each	65.49	1279.82	72.04	1286.37

Sr. No.	Description	Unit	Plains		Sub Mountainous	
			Labour Rate	Through Rate	Labour Rate	Through Rate
1	2	3	4	5	6	7
	(vi) Circular Aluminium conductor, conductor screened with extruded semiconducting compound, XLPE insulated, insulation screened with extruded semiconducting combination in combination with copper tape (0.3KA for 1sec.) cores laid up, FRLS PVC inner sheathed, galvanised steel strip armoured and overall FRLS PVC sheathed cable confirming to IS:7098/II/85 working voltage 11KV(UE) grade 150sq.mm (Three Core)	each	77.74	1442.23	85.51	1450.00
	(vii) Circular Aluminium conductor, conductor screened with extruded semiconducting compound, XLPE insulated, insulation screened with extruded semiconducting combination in combination with copper tape (0.3KA for 1sec.) cores laid up, FRLS PVC inner sheathed, galvanised steel strip armoured and overall FRLS PVC sheathed cable confirming to IS:7098/II/85 working voltage 11KV(UE) grade 185sq.mm (Three Core)	each	77.74	1590.43	85.51	1598.20
	(viii) Circular Aluminium conductor, conductor screened with extruded semiconducting compound, XLPE insulated, insulation screened with extruded semiconducting combination in combination with copper tape (0.3KA for 1sec.) cores laid up, FRLS PVC inner sheathed, galvanised steel strip armoured and overall FRLS PVC sheathed cable confirming to IS:7098/II/85 working voltage 11KV(UE) grade 240sq.mm (Three Core)	each	77.74	1878.35	85.51	1886.12
	(ix) Circular Aluminium conductor, conductor screened with extruded semiconducting compound, XLPE insulated, insulation screened with extruded semiconducting combination in combination with copper tape (0.3KA for 1sec.) cores laid up, FRLS PVC inner sheathed, galvanised steel strip armoured and overall FRLS PVC sheathed cable confirming to IS:7098/II/85 working voltage 11KV(UE) grade 300sq.mm (Three Core)	each	77.74	2193.05	85.51	2200.82
	(x) Circular Aluminium conductor, conductor screened with extruded semiconducting compound, XLPE insulated, insulation screened with extruded semiconducting combination in combination with copper tape (0.3KA for 1sec.) cores laid up, FRLS PVC inner sheathed, galvanised steel strip armoured and overall FRLS PVC sheathed cable confirming to IS:7098/II/85 working voltage 11KV(UE) grade 400sq.mm (Three Core)	each	77.74	2582.16	85.51	2589.93
<b>33.36 B</b>	<b>XLPE INSULATED HT ARMoured CABLES (LOOSE):</b>					
	<b>Supply &amp; laying of Circular Aluminium conductor, conductor screened with extruded semiconducting compound, XLPE insulated, insulation screened with extruded semiconducting combination in combination with copper tape (0.3KA for 1sec.) cores laid up, FRLS PVC inner sheathed, galvanised steel strip armoured and overall FRLS PVC sheathed cable confirming to IS:7098/II/85 working voltage 11KV(UE) grade to be laid loose in the existing trench or pipe:-</b>					

Sr. No.	Description	Unit	Plains		Sub Mountainous	
			Labour Rate	Through Rate	Labour Rate	Through Rate
1	2	3	4	5	6	7
	(i) Circular Aluminium conductor, conductor screened with extruded semiconducting compound, XLPE insulated, insulation screened with extruded semiconducting combination in combination with copper tape (0.3KA for 1sec.) cores laid up, FRLS PVC inner sheathed, galvanised steel strip armoured and overall FRLS PVC sheathed cable confirming to IS:7098/II/85 working voltage 11KV(UE) grade 35sq.mm (Three Core)	m	12.25	763.91	13.48	765.14
	(ii) Circular Aluminium conductor, conductor screened with extruded semiconducting compound, XLPE insulated, insulation screened with extruded semiconducting combination in combination with copper tape (0.3KA for 1sec.) cores laid up, FRLS PVC inner sheathed, galvanised steel strip armoured and overall FRLS PVC sheathed cable confirming to IS:7098/II/85 working voltage 11KV(UE) grade 50sq.mm (Three Core)	m	12.25	849.57	13.48	850.80
	(iii) Circular Aluminium conductor, conductor screened with extruded semiconducting compound, XLPE insulated, insulation screened with extruded semiconducting combination in combination with copper tape (0.3KA for 1sec.) cores laid up, FRLS PVC inner sheathed, galvanised steel strip armoured and overall FRLS PVC sheathed cable confirming to IS:7098/II/85 working voltage 11KV(UE) grade 70sq.mm (Three Core)	m	24.49	964.25	26.94	966.70
	(iv) Circular Aluminium conductor, conductor screened with extruded semiconducting compound, XLPE insulated, insulation screened with extruded semiconducting combination in combination with copper tape (0.3KA for 1sec.) cores laid up, FRLS PVC inner sheathed, galvanised steel strip armoured and overall FRLS PVC sheathed cable confirming to IS:7098/II/85 working voltage 11KV(UE) grade 95sq.mm (Three Core)	m	24.49	1039.72	26.94	1042.17
	(v) Circular Aluminium conductor, conductor screened with extruded semiconducting compound, XLPE insulated, insulation screened with extruded semiconducting combination in combination with copper tape (0.3KA for 1sec.) cores laid up, FRLS PVC inner sheathed, galvanised steel strip armoured and overall FRLS PVC sheathed cable confirming to IS:7098/II/85 working voltage 11KV(UE) grade 120sq.mm (Three Core)	m	24.49	1177.48	26.94	1179.93
	(vi) Circular Aluminium conductor, conductor screened with extruded semiconducting compound, XLPE insulated, insulation screened with extruded semiconducting combination in combination with copper tape (0.3KA for 1sec.) cores laid up, FRLS PVC inner sheathed, galvanised steel strip armoured and overall FRLS PVC sheathed cable confirming to IS:7098/II/85 working voltage 11KV(UE) grade 150sq.mm (Three Core)	m	24.49	1327.64	26.94	1330.09

Sr. No.	Description	Unit	Plains		Sub Mountainous	
			Labour Rate	Through Rate	Labour Rate	Through Rate
1	2	3	4	5	6	7
	(vii) Circular Aluminium conductor, conductor screened with extruded semiconducting compound, XLPE insulated, insulation screened with extruded semiconducting combination in combination with copper tape (0.3KA for 1sec.) cores laid up, FRLS PVC inner sheathed, galvanised steel strip armoured and overall FRLS PVC sheathed cable confirming to IS:7098/II/85 working voltage 11KV(UE) grade 185sq.mm (Three Core)	m	24.49	1475.84	26.94	1478.29
	(viii) Circular Aluminium conductor, conductor screened with extruded semiconducting compound, XLPE insulated, insulation screened with extruded semiconducting combination in combination with copper tape (0.3KA for 1sec.) cores laid up, FRLS PVC inner sheathed, galvanised steel strip armoured and overall FRLS PVC sheathed cable confirming to IS:7098/II/85 working voltage 11KV(UE) grade 240sq.mm (Three Core)	m	24.49	1763.76	26.94	1766.21
	(ix) Circular Aluminium conductor, conductor screened with extruded semiconducting compound, XLPE insulated, insulation screened with extruded semiconducting combination in combination with copper tape (0.3KA for 1sec.) cores laid up, FRLS PVC inner sheathed, galvanised steel strip armoured and overall FRLS PVC sheathed cable confirming to IS:7098/II/85 working voltage 11KV(UE) grade 300sq.mm (Three Core)	m	24.49	2078.46	26.94	2080.91
	(x) Circular Aluminium conductor, conductor screened with extruded semiconducting compound, XLPE insulated, insulation screened with extruded semiconducting combination in combination with copper tape (0.3KA for 1sec.) cores laid up, FRLS PVC inner sheathed, galvanised steel strip armoured and overall FRLS PVC sheathed cable confirming to IS:7098/II/85 working voltage 11KV(UE) grade 400sq.mm (Three Core)	m	24.49	2467.57	26.94	2470.02
<b>33.36 C S/E of Heat shrinkable cable end termination for 11 KVA /6.6</b>						
	(i) Heat Shrinkable for cable size 35 sq. mm (Indoor Type)	Each	326.59	3016.60	359.25	3049.26
	(ii) Heat Shrinkable for cable size 50-95 sq. mm (Indoor Type)	Each	408.23	3208.32	449.05	3249.14
	(iii) Heat Shrinkable for cable size 120-185 sq. mm (Indoor Type)	Each	612.37	3915.05	673.61	3976.29
	(iv) Heat Shrinkable for cable size 240-300 sq. mm (Indoor Type)	Each	694.00	4618.93	763.40	4688.33
	(v) Heat Shrinkable for cable size 35 sq. mm (Outdoor Type)	Each	326.59	3581.42	359.25	3614.08
	(vi) Heat Shrinkable for cable size 50-95 sq. mm (Outdoor Type)	Each	408.23	3773.14	449.05	3813.96
	(vii) Heat Shrinkable for cable size 120-185 sq. mm (Outdoor Type)	Each	612.37	4695.26	673.61	4756.50
	(viii) Heat Shrinkable for cable size 240-300 sq. mm (Outdoor Type)	Each	694.00	5427.85	763.40	5497.25
	(ix) Heat Shrinkable for cable size 35 sq. mm (Straight Through Joint)	Each	326.59	8176.46	359.25	8209.12
	(x) Heat Shrinkable for cable size 50-95 sq. mm (Straight Through Joint)	Each	408.23	8569.21	449.05	8610.03

Sr. No.	Description		Unit	Plains		Sub Mountainous	
				Labour Rate	Through Rate	Labour Rate	Through Rate
1	2		3	4	5	6	7
	(xi)	Heat Shrinkable for cable size 120-185 sq. mm (Straight Through Joint)	Each	612.37	9582.27	673.61	9643.51
	(xii)	Heat Shrinkable for cable size 240-300 sq. mm (Straight Through Joint)	Each	694.00	10362.73	763.40	10432.13
<b>33.37</b>	<b>DOUBLE WALLED CORRUGATED (DWC) HDPE PIPES:</b>						
	<b>Supply and erection of double walled corrugated (DWC) HDPE pipe to be laid 1mtr. below ground level including excavation (making necessary trench), placing the pipe in position and back filling with excavated soil etc. of the required size.</b>						
	(i)	Double walled corrugated (DWC) HDPE pipe 50/ 38mm (outer/ inner dia.)	m	32.15	81.91	35.37	85.13
	(ii)	Double walled corrugated (DWC) HDPE pipe 63/ 51mm (outer/ inner dia.)	m	32.15	99.09	35.37	102.31
	(iii)	Double walled corrugated (DWC) HDPE pipe90/76mm (outer/ inner dia.)	m	32.15	125.77	35.37	128.99
	(iv)	Double walled corrugated (DWC) HDPE pipe 120/ 103.5mm (outer/ inner dia.)	m	32.15	160.78	35.37	164.00
	(v)	Double walled corrugated (DWC) HDPE pipe 160/ 136mm (outer/ inner dia.)	m	32.15	222.98	35.37	226.20
	(vi)	Double walled corrugated (DWC) HDPE pipe 180/ 152mm (outer/ inner dia.)	m	32.15	284.54	35.37	287.76
	(vii)	Double walled corrugated (DWC) HDPE pipe 200/ 170mm (outer/ inner dia.)	m	32.15	346.62	35.37	349.84
<b>33.38</b>	<b>SHEET METAL CUBICAL PEDESTAL, TOWER STRUCTURES, HT &amp; LT MISCELLANEOUS ITEMS:</b>						
	(i)	S/E of SMCpedestal made from 50mmx50mmx6mm thick MS angle iron frame with 5 sides welded & covered with MS sheet 2mm thick & front side hinged with 4" hinges & locking system with heavy duty 12" sliding door.Placed on MS strip of size 12.5mmx2.5mm thick welded with MS sheet with 4no. legs of 50mmx50mmx6mm thick MS angle iron each of 600mm long with MS sheet 100mmx100mmx6mm thick at the bottom end of the legs.Front door welded x-actionally with MS flat 25mmx5mm.The front side with MS sheet each 75mm wide & a bend of 75mm width outwards & inwards on all sides with tapered top 200mm high.And pedestial with 4 Nos supporting members each of MS flat 50mmx6mm thick acc. to cubical size duly welded & complete pedestal to be painted with 1 coat of red oxide & 2 coats of paint & bonding to the existing earth to be erected in the 1:2:4 CC, the platform of 150mm high from ground level & 450mm thick & 150mm from the top of the CCplatform as per Drawing attached.					
	(a)	Cubical Size 900mm high, 600mm wide and 350mm deep	each	565.20	6617.60	621.72	6674.12

Sr. No.	Description		Unit	Plains		Sub Mountainous	
				Labour Rate	Through Rate	Labour Rate	Through Rate
1	2		3	4	5	6	7
	(b)	Cubical Size 1200mm high, 900mm wide and 350mm deep	each	624.08	9477.71	686.49	9540.12
	(c)	Cubical Size 1200mm high, 1000mm wide and 500mm deep	each	565.20	11235.09	621.72	11291.61
	(d)	Cubical Size 1400mm high, 1200mm wide and 500mm deep	each	565.20	13538.58	621.72	13595.10
	(ii)	S/E of SMCpedestal made from 50mmx50mmx6mm thick MS angle iron with 5 sides welded & covered with MS sheet 2mm thick & front side hinged with 4" hinges & locking system with heavy duty 12" sliding door,placed on MS strip of size 12.5mmx2.5mm thick welded with MS sheet with 4no. legs of 50mmx50mmx6mm thick MS angle iron each of 600mm long with MS sheet 100mmx100mmx6mm thick at the bottom end of the legs.Front door welded x-actionally with MS flat 25mmx5mm.The front side with MS sheet each 75mm wide & a bend of 75mm width outwards & inwards on all sides. With tapered top 300mm high.And pedestal with 4 nos. supporting members each of 50mm x 50mm x 6mm thick MS angle iron (according to cubical size) duly welded & complete pedestal to be painted with (one coat of red oxide & two coats of paint) & bonding to the existing earth.And to be erected in the 1:2:4 CCplatform of 150mm high from ground level &450mm thick & 150mm from the top of the CCplatform as per Drawing attached.					
	(a)	Cubical Size 1200mm high, 1500mm wide and 350mm deep	each	565.20	13887.07	621.72	13943.59
	(b)	Cubical Size 1200mm high, 1800mm wide and 350mm deep	each	565.20	15814.79	621.72	15871.31
	(iii)	S/E of M.S. Junction box 205mm x 155mm x 95mm made from M.S. Sheet 16 SWG (1.60 mm thick) with top side of dimensions 155mm x 95mm , bottom side 155mm x 95mm , right side 205mm x 95 mm , left side 205mm x 95mm, back side 205mm x 155mm (all sides fixed) and front side hinged with dimensions 205mm x 155mm. Junction box should have one locking arrangement and 2 nos. hinges on front side. It should have 1 No. Brass terminal connecting strip, 1 No. Kit kat 16 Amp/240 Volts along with M.S. Flat 20mm x 2mm clamp with nuts and bolts for fixing on the pole. The junction box should be painted with one coat of good quality primer and two coats of post office red enamel paint inside and outside complete in all respect.	each	57.64	368.86	63.40	374.62



Sr. No.	Description		Unit	Plains		Sub Mountainous	
				Labour Rate	Through Rate	Labour Rate	Through Rate
1	2		3	4	5	6	7
	(iv)	S/E of M.S. Junction box 300 mm x 200 mm x 100 mm made from M.S. Sheet 16 SWG (1.60 mm thick ) with top side of dimensions 200 mm x 100 mm , bottom side 200 mm x 100 mm , right side 300 mm x 100 mm , left side 300 mm x 100 mm, back side 300 mm x 200 mm ( all sides fixed ) and front side hinged with dimensions 300 mm x 200 mm.Junction box should have one locking arrangement and 2 nos. hinges on front side. It should have 1 No. Brass terminal connecting strip, 1 No. Kit kat 16 Amp/240 Volts along with M.S. Flat 20 mm x 2 mm clamp with nuts and bolts for fixing on the pole. The junction box should be painted with one coat of good quality primer and two coats of post office red enamel paint inside and outside complete in all respect.	each	57.64	439.88	63.40	445.64
	(v)	S/E of M.S. Angle Iron structure upto 8.4 meter high 1500 mm base & 750 mm at the top. & 6nos horizontal support of M.S. Angle iron 50mmx50mmx5mm from G/L of length 1.46 m x4, 1.33mx4, 1.24 mx4, 1.11 mx4, 0.98mx4 & 0.84mx4 from bottom to top resp., 6 nos.inclined angle support of M.S.Angle iron 50mmx50mmx5mm from G/Lof length 1.87mx8, 1.79mx8, 1.70mx8,1.64mx8, 1.54mx8 & 1.31 mtr x 8 from bottom to top resp.,2 nos. horizontal support for Ladder of M.S.Angle iron 30mmx30mmx5mm of lengths 1.10 m & 1.35m to be welded with M.S.Angle iron 65mmx65mmx6mm.,4 nos. vertical angle support for the raising of tower of M.S. Angle Iron 65mmx65mmx6mm for the fixing of the above horizontal and vertical supports of length 8.4m each and for the fixing of octagonal platform on it.The vertical angle supports to be welded with M.S. base plates of thickness 20mm &10mm each of size 200mmx200mm 4nos.each under the base plate,spacer of M.S. Flat 40mmx5mm(24 nos.) for inclined angles to be erected with nuts & bolts 16 mm dia (176 Nos.)	each	879.22	42825.66	967.14	42913.58
	(vi)	S/E of M.S. Tower Ladder suitable for tower structure of height 8.4 mtr made from M.S. Angle iron 30 mm x 30 mm x 5 mm of length 6.94 mtr with 24 nos. steps made from M.S. Rods 16 mm for climbing on the tower/ octagonal platform. Each rod should be 300 mm long and welded with vertical M.S. angle iron of tower ladder.	each	761.47	3918.92	837.62	3995.07

Sr. No.	Description	Unit	Plains		Sub Mountainous	
			Labour Rate	Through Rate	Labour Rate	Through Rate
1	2	3	4	5	6	7
(vii)	S/E of M.S. Octagonal top of the tower structure of height 8.4 meter & base consists of 8 sides of M.S.Angle Iron 40mmx40mm x5 mm. Out of 8 sides, 4 sides of length 760 mm and 4 sides of length 700mm.The octagonal top of 8 Nos. vertical supports each of length 840 mm for mounting railing on it. The top end of the railing of 8 sides for fixing the fittings on it. Out of 8 sides, 4 sides of length 830 mm & 4 sides of length 650 mm. The platform of the octagonal top of mesh made from M.S. Square bars 8 mm dia of weight 41 Kg. The platform of opening (double door) with frame of M.S. Angle iron 40 mm x 40 mm x 5 mm with locking arrangement. The octagonal top of railing made from M.S. Flat 40mmx5mm having 8 sides between the top & bottom (in middle). Out of 8 sides, 4 sides of length 830 mm and 4 sides of length 650 mm. The whole platform of base made from M.S. Channel 75mmx40mmx4mm fixed x-sectionally having lengths 1750 mm x 2 , 460 mm x 2 and 760 mm x 4 for fixing the opening system platform mesh etc on it.	each	761.47	10708.59	837.62	10784.74
(viii)	Making of foundation 2050 mm deep suitable for tower of height 8.4 mtr and base 1500 mm x 1500 mm with 100 mm (4") cement concrete 1:5:10 with brick blast 40 mm guage. Foundation should have R.C.C. hand mixed 1:1½::3 with centering and shuttering complete in all respect. Foundation should have cold twisted deformed bars for slab reinforcement (10 mm dia), columns (12 mm dia) and rings ( 8 mm dia ).For slab reinforcement, there should be 8 Nos. steel bars each of length 1000 mm for each column for bottom and top seperately. For R.C.C. Column, there should be 6 Nos. vertical steel bars each of length 2100 mm and 8 Nos. rings of dia 300 mm each for each column. At the top of each column there should be 10 mm thick M.S. Base plate size 200 mm x 200 mm. Foundation should have the provision of M.S. Nuts and bolts of size 20 mm dia 700 mm long 4 nos. for each column for fixing the tower on it.. Foundation should be 150 mm above ground level.	each	525.98	23452.79	578.58	23505.39
(ix)	Supply & erection of 11 KV GO switch confirming to ISI specifications. The item includes supply and erection of operating pipe and handle arrangement of MS flat 50mm x 6mm and channels 75mm x 40mm sheet. The GO switch is to be fitted with locking arrangement so as it locks upward on 'ON' position and locks downward in 'OFF' position. The entire GO switch assembly/unit should be properly earthed and the job is to be completed as approved by Engineer-in-charge.	each	163.31	7518.72	179.64	7535.05
(x)	Supply & erection of 'D' iron clamp 50mm x 6mm flat iron complete with fixing bolts and nuts (16mm x 200mm) including making holes in the pole as approved by Engineer-in-charge.	each	20.39	99.01	22.43	101.05

Sr. No.	Description	Unit	Plains		Sub Mountainous	
			Labour Rate	Through Rate	Labour Rate	Through Rate
1	2	3	4	5	6	7
(xi)	Supply & erection of 'V' shape cross arm of MS channel 75mm x 40mm as per standard drawing. The item include supply and erection of half clamp made out of 50mm x 6mm flat including cost of nut and bolts as approved by Engineer-in-charge.	each	40.82	463.07	44.90	467.15
(xii)	Supply & erection of 11 KV Top Hamper made out of MS flat 50mm x 6mm as per standard drawing. The item includes supply and erection of nut and bolts (19mmx 125mm) as required. The job is to be completed as approved by Engineer-in-charge.	each	40.82	209.81	44.90	213.89
(xiii)	S/E of M.S. Cooler stand of made from M.S. Angle iron 40 mm x 40 mm x 5 mm having dimensions of base 700 mm x 700 mm and top 700 mm x 700 mm on which cooler is to be fixed. M.S. Angle iron ( 4 no ) legs of stand should be 700 mm high. The stand should be painted with one coat of primer and two coats of approved paint.	each	135.03	1510.97	148.53	1524.47
(xiv)	S/E of M.S. Flat bracket made from 50 mm x 6 mm of length 600 mm and width 300 mm for installing metal hallide flood light fitting on it. Bracket should be fixed with the existing pipe of cover shed with M.S. Flat clamp of size 50 mm x 6 mm The bracket should be painted with one coat of primer and two coats of approved paint.	m	84.40	406.04	92.84	414.48
(xv)	S/E of M.S. Channel bracket made from 100 mm x 50 mm of length 600 mm and height 600 mm with M.S. Angle Iron 40 mm x 40 mm x 5 mm for installing metal hallide flood light fitting on it. Bracket should be fixed /welded with the existing pipe of cover shed. The bracket should be painted with one coat of primer and two coats of approved paint.	m	84.40	848.34	92.84	856.78
(xvi)	MS sheet metal box (1mm thick) of length 1225mm breadth 400mm height 425mm with MS angle iron 40mm x 40mm x 5mm frame at the base of the box for storing metal hallide flud light fitting in it. Sheet metal should have top portion hinged with 6" (6 inch) hinges and divided into equal 8 compartments with sheet 1mm thick.	each	337.55	2983.80	371.31	3017.56
(xvii)	Supply and Erection of MS angle iron size 50mm x 50mm x 5mm thick with cutting, bending and necessary holes as desired by Engineer-in-charge at site.	m	40.07	186.41	44.08	190.42
(xviii)	Supply and Erection of MS angle iron size 50mm x 50mm x 6mm thick with cutting, bending and necessary holes as desired by Engineer-in-charge at site.	m	40.07	259.16	44.08	263.17

Sr. No.	Description		Unit	Plains		Sub Mountainous	
				Labour Rate	Through Rate	Labour Rate	Through Rate
1	2		3	4	5	6	7
	(xix)	Supply and Erection of MS angle iron size 30mm x 30mm x 5mm thick with cutting, bending and necessary holes as desired by Engineer-in-charge at site.	m	40.07	124.80	44.08	128.81
	(xx)	Supply and Erection of MS angle iron size 40mm x 40mm x 5mm thick with cutting, bending and necessary holes as desired by Engineer-in-charge at site.	m	40.07	155.57	44.08	159.58
	(xxi)	Supply and Erection of MS channel iron size 100mm x 50mm x 6mm thick with cutting, bending and necessary holes as desired by Engineer-in-charge at site.	m	48.11	435.31	52.92	440.12
	(xxii)	Supply and Erection of MS channel iron size 75mm x 40mm x 4mm thick with cutting, bending and necessary holes as desired by Engineer-in-charge at site.	m	48.11	327.50	52.92	332.31
	(xxiii)	Supply and Erection of MS flat iron size 40mm x 5mm thick with cutting, bending and necessary holes as desired by Engineer-in-charge at site.	m	32.07	95.79	35.28	99.00
	(xxiv)	Supply and Erection of MS flat iron size 50mm x 5mm thick with cutting, bending and necessary holes as desired by Engineer-in-charge at site.	m	32.07	130.09	35.28	133.30
	(xxv)	Supply and Erection of MS flat iron size 25mm x 5mm thick with cutting, bending and necessary holes as desired by Engineer-in-charge at site.	m	32.07	69.10	35.28	72.31
<b>33.38</b>	<b>S/E of heavy duty aluminium thimbles/lugs for cable end termination duly crimped including making necessary</b>						
<b>A</b>	(i)	Aluminium cable core size 4 sq. mm - 6 sq. mm	Each	10.21	12.22	11.23	13.24
	(ii)	Aluminium cable core size 10 sq. mm - 16 sq. mm	Each	10.21	13.35	11.23	14.37
	(iii)	Aluminium cable core size 25 sq. mm - 35 sq. mm	Each	11.32	16.28	12.45	17.41
	(iv)	Aluminium cable core size 50 sq. mm	Each	13.60	21.75	14.96	23.11
	(v)	Aluminium cable core size 70 sq. mm	Each	13.60	25.83	14.96	27.19
	(vi)	Aluminium cable core size 95 sq. mm	Each	16.33	29.87	17.96	31.50
	(vii)	Aluminium cable core size 120 sq. mm	Each	16.33	30.78	17.96	32.41
	(viii)	Aluminium cable core size 150 sq. mm	Each	20.39	44.85	22.43	46.89
	(ix)	Aluminium cable core size 185 sq. mm	Each	20.39	50.92	22.43	52.96
	(x)	Aluminium cable core size 240 sq. mm	Each	27.22	77.51	29.94	80.23
	(xi)	Aluminium cable core size 300 sq. mm	Each	27.22	100.53	29.94	103.25
	(xii)	Aluminium cable core size 400 sq. mm	Each	27.22	133.21	29.94	135.93
	(xiii)	Aluminium cable core size 500 sq. mm	Each	40.82	193.62	44.90	197.70
	(xiv)	Aluminium cable core size 630 sq. mm	Each	40.82	240.56	44.90	244.64
	(xv)	Aluminium cable core size 800 sq. mm	Each	40.82	326.01	44.90	330.09
	(xvi)	Aluminium cable core size 1000 sq. mm	Each	81.66	542.84	89.83	551.01
<b>33.38</b>	<b>S/E of heavy duty Copper thimbles/lugs for cable end termination duly crimped including making necessary</b>						
<b>B</b>	(i)	Copper cable core size 4 sq. mm - 6 sq. mm	Each	10.21	16.80	11.23	17.82
	(ii)	Copper cable core size 10 sq. mm - 16 sq. mm	Each	10.21	21.25	11.23	22.27
	(iii)	Copper cable core size 25 sq. mm - 35 sq. mm	Each	11.32	31.43	12.45	32.56
	(iv)	Copper cable core size 50 sq. mm	Each	13.60	39.01	14.96	40.37
	(v)	Copper cable core size 70 sq. mm	Each	13.60	54.93	14.96	56.29
	(vi)	Copper cable core size 95 sq. mm	Each	16.33	72.03	17.96	73.66
	(vii)	Copper cable core size 120 sq. mm	Each	16.33	92.52	17.96	94.15

Sr. No.	Description	Unit	Plains		Sub Mountainous	
			Labour Rate	Through Rate	Labour Rate	Through Rate
1	2	3	4	5	6	7
<b>33.38</b>	<b>S/E of heavy duty brass single compression gland for cable end termination duly complete with checknuts etc. including</b>					
	(i) Gland for Aluminium cable 2,3 core size 2.5 sq. mm	Each	20.39	32.71	22.43	34.75
	(ii) Gland for Aluminium cable 2,3,4 core size 4 sq. mm	Each	20.39	35.52	22.43	37.56
	(iii) Gland for Aluminium cable 2,3,4 core size 6 sq. mm	Each	20.39	39.40	22.43	41.44
	(iv) Gland for Aluminium cable 4 core size 10 sq. mm	Each	27.22	42.35	29.94	45.07
	(v) Gland for Aluminium cable 3,4 core size 16 sq. mm	Each	27.22	61.00	29.94	63.72
	(vi) Gland for Aluminium cable 3½,4 core size 25-35 sq. mm	Each	40.82	80.58	44.90	84.66
	(vii) Gland for Aluminium cable 3½,4 core size 50 sq. mm	Each	40.82	93.74	44.90	97.82
	(viii) Gland for Aluminium cable 3½,4 core size 70 sq. mm	Each	51.04	103.96	56.14	109.06
	(ix) Gland for Aluminium cable 3½,4 core size 95-120 sq. mm	Each	51.04	127.06	56.14	132.16
	(x) Gland for Aluminium cable 3½ core size 150 sq. mm	Each	51.04	156.63	56.14	161.73
	(xi) Gland for Aluminium cable 3½ core size 185 sq. mm	Each	81.66	209.08	89.83	217.25
	(xii) Gland for Aluminium cable 3½ core size 240 sq. mm	Each	81.66	233.01	89.83	241.18
	(xiii) Gland for Aluminium cable 3½ core size 300 sq. mm	Each	102.05	282.95	112.26	293.16
	(xiv) Gland for Aluminium cable 3½ core size 400 sq. mm	Each	102.05	358.99	112.26	369.20
	(xv) Gland for Aluminium cable 3½ core size 500 sq. mm	Each	136.09	435.27	149.70	448.88
	(xvi) Gland for Aluminium cable 3½ core size 630 sq. mm	Each	204.14	570.18	224.55	590.59
<b>33.39</b>	<b>DISMANTLING WIRING POINTS:</b>					
	(i) Fan, light or call bell point.	each	5.93	5.99	6.52	6.58
	(ii) Wall socket, power plug point	each	3.69	3.72	4.06	4.09