

BILL OF QUANTITIES							
Commercial and Residential building ,Ujjain, MADHYA PRADESH							
SOR item							
Item No.	Sub Item No.		Description of Item	Unit	Rate (in Rs.)	Qty	Amt.
			Wiring With 1.5 Sq. mm Copper Stranded Conductor				
1.1		Point wiring Surface rigid steel conduit	Point wiring (excluding metallic switch box & sheet but including switches, sockets, lamp holders/ceiling roses etc)with 1.5sq. mm. PVC insulated cable FRLS with copper multi strand conductor ISI marked insurface rigid steel conduit ISI marked of suitable size and 1.5sq. mm. PVC insulated FRLS copper earth continuity conductor of green colour inside conduit including painting, screwless connector for joints etc. as required as per specification for :- Using modular accessories				
	1.1.1	Light/fan points primary	Light/ fan points primary				
	1.1.1.1	Short	Primary short point	Each	607.00		0.00
	1.1.1.2	Medium	Primary medium point	Each	1223.00	30.00	36690.00
	1.1.1.3	Long	Primary long point	Each	1924.00	60.00	115440.00
	1.1.2	Looping point secondary	Looping point secondary - (Light point/ fan points) looping point				
	1.1.2.1	Short	Secondary short point	Each	304.00	30.00	9120.00
	1.1.2.2	Medium	Secondary medium point	Each	612.00	190.00	116280.00
	1.1.2.3	Long	Secondary long point	Each	962.00		0.00
			Wiring in concealed rigid P.V.C conduit FRLS with copper conductor				
4.1		Point wiring concealed rigid P.V.C. conduit	Point wiring (excluding metallic switch box & sheet but including switches, sockets, lamp holders/ceiling roses etc)with 1.5sq. mm. PVC insulated cable FRLS with copper multi strand conductor ISI marked in concealed rigid P.V.C. conduit (HMS)ISI marked of suitable size and 1.5sq. mm. PVC insulated FRLS copper earth continuity conductor of green colour inside conduit, screwless connector for joints etc. as required as per specification for :- Using modular accessories				
	4.1.1	Light/fan points primary	Light/ fan points primary				
	4.1.1.1	Short	Primary short point	Each	451.00	425.00	191675.00
	4.1.1.2	Medium	Primary medium point	Each	830.00	2250.00	1867500.00
	4.1.1.3	Long	Primary long point	Each	1300.00	1410.00	1833000.00
	4.1.2	Looping point secondary	Looping point secondary - (Light point/ fan points) looping point				
	4.1.2.1	Short	Secondary short point	Each	226.00	870.00	196620.00

	4.1.2.2	Medium	Secondary medium point	Each	415.00	860.00	356900.00
	4.1.2.3	Long	Secondary long point	Each	650.00		0.00
	4.1.3	Socket 6A sep. board	3 Pin 6 Amp socket outlet on separate board				
	4.1.3.1	Short	Short point	Each	574.00		0.00
	4.1.3.2	Medium	Medium point	Each	990.00	326.00	322740.00
	4.1.3.3	Long	Long point	Each	1515.00	370.00	560550.00
	4.1.5	Twin control point	Twin control light points				
	4.1.5.3	Long	Long point	Each	1453.00	382.00	555046.00
4.2		Socket same board 6A	Point wiring (excluding metallic switch box & sheet but including switches, sockets)for 3 pin 6 Amp. socket outlet point with 1.5sq. mm. PVC insulated cable FRLS with copper multi strand conductor ISI marked in concealed rigid P.V.C. conduit (HMS) ISI marked of suitable size and 1.5sq. mm. PVC insulated copper earth continuity conductor of green colour inside conduit with required materials as per specification on same board. Using modular accessories	Each	265.00	1400.00	371000.00
			Power Wiring in concealed rigid P.V.C conduit FRLS with copper conductor				
9.1		Power point wiring concealed rigid P.V.C. conduit	Point wiring (excluding metallic switch box & sheet)for 3 Pin 16 Amp. socket outlet point with 4sq. mm. PVC insulated cable FRLS with copper multi strand conductor ISI marked in concealed rigid P.V.C. conduit (HMS)ISI marked of suitable size etc. with 20/16 Amp. F.T. switch & socket/S.S. combined 20/16/6 Amp. of ISI marked and 4sq. mm. PVC insulated FRLS copper earth continuity conductor of green colour inside conduit, screwless connector for joints as per specification for :- Using flush type normal accessories				
	9.1.1	Power point	Power point on separate board				
	9.1.1.2	Medium	Medium point	Each	1530.00	105.00	160650.00
	9.1.1.3	Long	Long point	Each	2393.00	58.00	138794.00
9.1		Power point wiring concealed rigid P.V.C. conduit	Point wiring (excluding metallic switch box & sheet)for 3 Pin 16 Amp. socket outlet point with 4sq. mm. PVC insulated cable FRLS with copper multi strand conductor ISI marked in concealed rigid P.V.C. conduit (HMS)ISI marked of suitable size etc. with 20/16 Amp. F.T. switch & socket/S.S. combined 20/16/6 Amp. of ISI marked and 4sq. mm. PVC insulated FRLS copper earth continuity conductor of green colour inside conduit, screwless connector for joints as per specification for :- Using modular accessories				
	9.1.1	Power point	Power point on separate board				
	9.1.1.2	Medium	Medium point	Each	1749.00	240.00	419760.00
	9.1.1.3	Long	Long point	Each	2612.00	600.00	1567200.00

14.1		Surface M.S. conduit H.G	Supplying and fixing rigid steel conduit ISI marked along with the accessories on surface including painting etc. as required				
	14.1.1	20 mm. 16 SWG	H.G. conduit 20 mm, wall thickness 1.6mm.	Metre	121.00	250.00	30250.00
	14.1.2	25 mm. 16 SWG	H.G. conduit 25 mm, wall thickness 1.6mm.	Metre	151.00	250.00	37750.00
16.1		Concealed PVC conduit HMS	Supply and fixing PVC conduit ISI marked FRLS along with the accessories in concealed system etc. as required				
	16.1.1	20 mm. HMS	PVC. conduit 20 mm (HMS)	Metre	61.00	1150.00	70150.00
	16.1.2	25 mm. HMS	PVC. conduit 25 mm (HMS)	Metre	74.00	1150.00	85100.00
	16.1.3	32 mm. HMS	PVC. conduit 32 mm (HMS)	Metre	115.00	1700.00	195500.00
	16.1.5	50 mm. HMS	50 mm. HMS	Metre	211.00	300.00	63300.00
18.2		Modular G.I. metal box (concealed)	Supplying and fixing of approved make modular type G.I. metal box 1.2mm minimum thick and depth 50mm for single row boxes and 60mm depth for two/ three row boxes earth terminal stud with nut and washer with modular base and cover plate including fixing in concealed etc. as required for:-				
	18.2.1	G.I box 1 Or 2 module	1Or 2 Module metal box	Each	182.00	393.00	71526.00
	18.2.2	G.I box 3 module	3 Module metal box	Each	216.00	1780.00	384480.00
	18.2.3	G.I box 4 module	G.I box 4 module	Each	244.00	209.00	50996.00
	18.2.4	G.I box 6 module	6 Module metal box	Each	309.00	216.00	66744.00
	18.2.5	G.I box 8/9 module	8/9 Module metal box	Each	373.00	1113.00	415149.00
	18.2.6	G.I box 12 module	12 Module metal box	Each	502.00	199.00	99898.00
19.1		Single core PVC insulated FRLS cable	Supplying and drawing single core PVC insulated cable FRLS with copper multi strand conductor ISI marked in existing rigid PVC casing and capping/conduit in surface or concealed as per specification.				
	19.1.1	1.5 sq. mm.	1.5 sq. mm. wire				
	19.1.1.1	1 wire	1 X 1.5 sq. mm.	Metre	19.00	23775.00	451725.00

23.1		Sub mains in recessed/concealed rigid PVC conduit (HMS)	Wiring for sub-mains with PVC insulated cable FRLS with copper multi strand conductor ISI marked in recessed/concealed rigid PVC conduit (HMS)FRLS ISI marked of suitable size (conduit included)including 2mm thick accessories, connection etc, as required as per specification. (Refer General Notes for Classification of Conduit Wiring Point No. 10)				
	23.1.1	2 Wire	2 Wire sub main				
	23.1.1.1	2.5 sq. mm. cable	2.5 sq. mm. cable	Metre	175.00	21900.00	3832500.00
25.6		Automatic transfer switches (ATS)	Supply of ISI Marked AutomaticTransfer Switches (ATS) confirming to IEC : 60947-1 & IEC : 60947-6-1 with automatic inbuilt time delay 4 pole, 415 V with two earthing terminals if required.				
	25.6.4	315A (open execution)	315 Amp (open execution)	Each	66067.00	2.00	132134.00
27.4		MCCB 3Ph, 3Pole, 50Hz, 415V (Micro-processor release)	Supplying of ISI marked and approved make of moulded case circuit breaker (MCCB) suitable for 3 phase,3 pole, 50 Hz, 415 Volts, (Ics=100%Icu) AC supply with Micro Processor release having respective breaking capacity (KA) at 415 Volts cited against their range standard conforming to IS/IEC 60947-2				
	27.4.1	MCCB 40 to 100A, 25kA, 3P	MCCB 25kA current rating - 40 & 100Amp 3 Pole µ-processor release, over load 40% -100% x In. & short circuit 1.5 - 8 x Ir. Adjustable	Each	18389.00	16.00	294224.00
	27.4.5	MCCB 160A, 36kA, 3P	MCCB 36kA current rating - 160Amp 3 Pole µ- processor release, over load 40% -100% x In. & short circuit 1.5 - 8 x Ir. Adjustable	Each	21383	6.00	128298.00
	27.4.6	MCCB 250A, 36kA, 3P	MCCB 36kA current rating - 250Amp 3 Pole µ- processor release, over load 40% -100% x In. & short circuit 1.5 - 8 x Ir. Adjustable	Each	26116	4.00	104464.00
	27.4.7	MCCB 400A, 36kA, 3P	MCCB 36kA current rating - 400Amp 3 Pole µ- processor release, over load 40% -100% x In. & short circuit 1.5 - 8 x Ir. Adjustable	Each	37640	14.00	526960.00
	27.4.8	MCCB 630A, 36kA, 3P	MCCB 36kA current rating - 630Amp 3 Pole µ- processor release, over load 40% -100% x In. & short circuit 1.5 - 8 x Ir. Adjustable	Each	47274	3.00	141822.00

27.8		MCB 'C' Series, 240/415V, 50 Cycle, 10kA/15kA	Supply of ISI marked and accepted standard of miniature circuit breaker (MCB) of 'C' series with short circuit indication, suitable for 240/415 Volts, 50 Cycle, 10 kA/15 kA Value AC supply conforming to IS : 8828 : 1996, IEC : 60898 : 2002 & 60947-2 but without enclosures :-				
	27.8.1	Single pole	Single pole				
	27.8.1.2	MCB SP 6A to 32A, 10kA	MCB SP 6Amp to 32Amp 10kA rating	Each	263.00	2038.00	535994.00
	27.8.2	Double pole	Double pole				
	27.8.2.2	MCB DP 6A to 32A, 10kA	MCB DP 6Amp to 32Amp 10kA rating	Each	887.00	42.00	37254.00
	27.8.3	Triple pole	For Triple pole				
	27.8.3.2	MCB TP 6A to 32 Amp , 10 kA	MCB TP 6A to 32 Amp , 10 kA rating	Each	1411.00	176.00	248336.00
	27.8.3.3	MCB TP 40 Amp , 10 kA	MCB TP 40 Amp , 10 kA rating	Each	2099.00	102.00	214098.00
	27.8.3.4	MCB TP 50A to 63A, 10kA	MCB TP 50Amp to 63Amp 10kA rating	Each	2157.00	78.00	168246.00
27.11		SPN MCB DB	Supply of approved make powder coated sheet steel encloser SPN MCB DB inclusive of busbar, neutral bar, earth bar, connection copper wire not less than 16 sq.mm & two earth terminals etc. complete as per IS:13032(exclusive of MCB & isolator)-				
	27.11.5	8 Way double door	8 Way double door IP 43 protection	Each	2127.00	30.00	63810.00
27.12		TPN MCB DB double door	Supplying of approved make TPN MCB DB metal double door IP 43 protection with provision for FP MCB/ Isolator/ RCCB/ RCBO as incomer and SP MCBs as outgoing inclusive of busbar, neutral bar, earth bar, connection copper wire not less than 16 sq.mm & two earth terminals etc. complete as per IS:13032(exclusive of MCB & isolator):				
	27.12.2	4 Way (8+12)	4 Way (8+12)	Each	4444.00	80.00	355520.00
	27.12.4	8 Way (8+24)	8 Way (8+24)	Each	6716.00	81.00	543996.00
	27.12.5	12 Way (8+36)	12 Way (8+36)	Each	9519.00	5.00	47595.00
27.14		Vertical TPN MCB DB, with provision for MCCB upto 160A TP/FP 36kA, double door	Supplying of approved make, powder coated metal double door vertical TPN MCB DB IP 43 protection with provision for MCCB upto 160A TP/FP 36kA as incomer and space for SP/TP MCBs as outgoing (without MCCB/MCBs) inclusive of busbar & connections etc				
	27.14.3	8 Way without MCCB	8 Way without MCCB	Each	15989.00	5.00	79945.00
	27.14.4	12 Way without MCCB	12 Way without MCCB	Each	21911.00	1.00	21911.00

27.18		Industrial type metal plug & socket DBs, SPN sheet enclosure	Supplying & fixing of approved make Industrial type metal plug & socket DBs (without MCB) SPN sheet enclosure (dust protected) inclusive of 2 pole and earth metal plug and socket and space to incorporate SP MCB complete as per specification as required.				
	27.18.2	20A	20 Amp	Each	1095.00	21.00	22995.00
27.19		Industrial type metal plug & socket DBs, TPN sheet enclosure	Supplying & fixing of ISI marked Industrial type metal plug socket D.B.s (without MCBs) for TPN enclosure three pole and earth metal plug and socket including space to incorporate TP MCB complete as per specification as required.				
	27.19.1	20A	20Amp	Each	2249.00	21.00	47229.00
	27.19.2	30/32A	30/32Amp	Each	2543.00	3.00	7629.00
28.4		Fixing of MCB/MCCB/Isolator, (labour only)	Fixing of MCB/MCCB/Isolator in sheet steel enclosure as required as per accepted practice, including mounting on busbar and cable connection etc. complete (labour only)				
	28.4.1	MCB/Isolator SP/DP	MCB/Isolator SP/DP	Each	22.00	2080.00	45760.00
	28.4.2	MCB/MCCB Isolator TP/TPN/FP	MCB/MCCB Isolator TP/TPN/FP	Each	28.00	399.00	11172.00
28.5		Labour charges	Labour charges for fixing sheet steel enclosure, MCB DB surface mounting type, as per accepted practice on 25x5mm flat iron clamp duly embedded in wall, cable connection etc. complete.				
		For Item	For item no :-				
	28.5.1	Item SOR no.	27.11.1 to.27.11.4	Each	517.00		0.00
	28.5.2	Item SOR no.	27.11.5 & 27.12.1 to 27.12.2	Each	545.00	30.00	16350.00
	28.5.3	Item SOR no.	27.12.3 to 27.12.4 & 27.13.1	Each	572.00		0.00
28.6		Labour charges	Labour charges for fixing sheet steel enclosures, MCB DB surface mounting type, as per accepted practice on 25x25x 5 mm angle iron clamp, including supplying and fixing of clamp duly embedded in wall, cable connection etc. complete :-				
		For Item	For item no :-				
	28.6.1	Item SOR no.	27.11.6 & 27.11.7; 27.12.5 ; 27.13.2 to 27.13.4 & 27.14.1 to 27.14.4 ; 27.15.1 to 27.15.4	Each	414.00		0.00

28.8		Labour charges	Labour charges for fixing sheet steel enclosures, MCB/MCCBDB flush mounting type, as per accepted practice, duly embedded and end plate completely flushed in wall, cable connection etc. complete :-				
		For item	For item no :-				
	28.8.1	Item SOR no.	27.11.1 to 27.11.7 ; 27.12.1 to 27.12.3 & 27.13.1	Each	268.00	80.00	21440.00
	28.8.2	Item SOR no.	27.12.4 & 27.12.5 ; 27.13.2 to 27.13.4 ; 27.14.1 to 27.14.4 & 27.15.1 to 27.15.4	Each	297.00	92.00	27324.00
29.25		Modular electronic fan regulator	Supply and fixing of approved make step type modular electronic fan regulator including connection etc. as required on existing board				
	29.25.2	2 Module	100 Watt(2 module)	Each	484.00	885.00	428340.00
29.32		Analog time switch for automatic ON - OFF street light	Supplying and fixing of analog time switch for automatic ON - OFF street light of approved make in existing LT panel including connections etc. as required as per specification	Each	2689.00	2.00	5378.00
29.33		Contractor 2 Pole rating 240/415V	Supplying and fixing of contractor 2 Pole rating 240/415V :for ON - OFF street light of approved make in existing LT panel including connections etc. as required as per specification				
	29.33.3	40A	40A	Each	832.00	6.00	4992.00
30.6		Exhaust fan heavy duty	Supplying, erecting and testing of approved make exhaust fan heavy duty with mounting frame, blades AC 230-250 complete connection and including, frame bolt/anchor hole fasteners etc. complete finished and as required.				
	30.6.1	300 mm	300mm sweep RPM 900 / 1400	each	2571.00	7.00	17997.00
	30.6.3	450 mm	450mm sweep RPM 900 / 1400	each	4259.00	7.00	29813.00

29.27		LT panel	Supply, fixing, testing & commissioning wall/floor mounted LT panel primer coated with powder coated paint & provided with required gasket for dust/vermin proof with degree of protection IP42 suitable for 415Volt 3 phase, 50 Hz, 4 wire system fabricated out of CRCA sheet upto 2 mm thick (1.6 mm for doors) duly compartmentalized for incomer, bus section, outgoings, cable alleys & CT, PT Ampere Metre, Volt Metre, selector switches, frequency Metre, phase indicating lamp, Energy Metre complete including cost of busbar supports, detachable cable gland plates, 2 earthing terminals, internal wiring & fixing of separately supplied MCBs, MCCBs, ACB, panel mounted changeover switch/SFUs, etc. as required but excluding cost of busbar strips, Ampere Metre, Volt Metre, selector switch as per approved design & specification	Kg	397.00	4806.00	1907982.00
29.28		LT panel accessories	Supply and fixing of LT panel accessories of approved make in existing LT panel including connections etc. as required as per specification.				
	29.28.1	Digital Ampere Metre	Digital Ampere Metre with CTs with selector switch	P.SET	2125.00	12.00	25500.00
	29.28.2	Digital Volt Metre	Digital Volt Metre with selector switch & HRC fuse	P.SET	2398.00	12.00	28776.00
	29.28.6	Aluminium bus bar strips	Aluminium bus bar strips with PVC sleeves	Kg	284.00	169.00	47996.00
	29.28.7	LED lamp indicator	LED lamp indicator	Each	255.00	36.00	9180.00
29.31		CT	Supplying and fixing of CT 1A/5A as per site selectable busbar dimension of approved make in existing main panel for power factor Panel including connections etc. as required as per specification.	Each	1664.00	36.00	59904.00
31.3		LED tube rod fixtur	Supply and fixing Led tube rod comprising of LED tube with non-integral/integral driver, upto 6500K color temp having 40000 burning hrs life with minimum @ L 70, system lumen output should be minimum with system efficacy> 100 lm/Watt. LED driver PF> 0.95 & THD < 20%. The colour rendering index of LED light should be more than 70. Submission LM 79-08/IS16106 (2012), IEC60598, IEC61347i/c connection wire, testing etc. to complete the job.				
	31.3.1	Tube light LED 1 X 8/10W	Tube light LED 1 X 8/10Watt Integral i/c batten aluminium body, PC diffuser.	Each	502.00	25.00	12550.00

	31.3.4	Tube light LED 1 X 20/22W	Tube light LED 1 X 20/22Watt, Integral i/c batten aluminium body, PC diffuser.	Each	782.00	312.00	243984.00
31.6		LED down lighter (recessed mounting)	Supply and fixing recessed mounting LED down lighter, LED of 1 to 3 Watt each assembled on single MCPCB, having color temp upto 6500K & having 50000 burning hrs. life with minimum @ L 70, system lumen output should be minimum with efficacy>100 lm/Watt. LED driver PF > 0.95, THD < 20% & surge protection 4KV. The colour rendering index of LED light should be more than 70. Housing made of pressure die cast aluminium/CRCA powder coated frame with glare free diffused polycarbonate cover. Submission LM 79-08/IS16106 (2012), IEC60598, IEC61347i/c connection wire, testing etc. to complete the job..				
	31.6.3	7/8/10W	7/8/10 Watt, color temp 3000-6500k as required.	Each	761.00	190.00	144590.00
	31.6.5	14/15W	14/15 Watt, color temp 3000-6500k as required.	Each	1150.00	325.00	373750.00
31.7		LED down lighter (surface mounting)	Supply and fixing surface mounting LED down lighter, LED of 1 to 3Watt each assembled on single MCPCB, having color temp upto 6500K & having 50000 burning hrs. life with minimum @ L 70, system lumen output should be minimum with efficacy>100 lm/Watt. LED driver PF > 0.95, THD < 20% & surge protection 4KV. The colour rendering index of LED light should be more than 70. Housing made of pressure die cast aluminium/CRCA powder coated frame with glare free diffused polycarbonate cover. Submission LM 79-08/IS16106 (2012), IEC60598, IEC61347i/c connection wire, testing etc. to complete the job..				
	31.7.3	7/8/10W	7/8/10 Watt, color temp 3000-6500k as required.	Each	726.00	25.00	18150.00
	31.7.4	14/15W	14/15 Watt, color temp 3000-6500k as required.	Each	1400.00	25.00	35000.00

31.11		Post top lantern LED fitting	Supply and fixing integral post top lantern LED fitting comprises of copper dust finish cast aluminium spigot and spun aluminium canopy fixed with opal polycarbonate, pipe arrangement for vertical mounting, open construction driver and accessories are wired upto terminal block. LED of 1 to 3 Watt each assembled on single MCPCB, having color temp upto 6500K & having 50000 burning hrs. life with minimum @ L 70, system lumen output should be minimum with efficacy>100lm/Watt. LED driver PF > 0.95 & surge protection 10KV. The colour rendering index of LED light should be more than 70. Submission LM 79-08/IS16106 (2012), IEC60598, IEC61347i/c connection wire, testing etc. to complete the job.				
	31.11.1	40W	40 Watt LED, color temp 3000-6500k as required.	Each	7768.00	20.00	155360.00
31.14		LED flood light	Supplying and fixing flood light with high power LED of 3 to 6 Watt each assembled on single MCPCB and additional unique peanut lens on each LED, system lumens output with efficacy>120 lm/Watt. luminaire having color temp upto 6500K & 50000 hrs. burning life with minimum @ L 70, The colour rendering index of LED light should be more than 70. Luminaire comprises of driver, PF > 0.95 & surge protection 10KV. Housing made of pressure die cast aluminium with heat resistant flat glass, IP65 protection. Submission LM 79-08/IS16106 (2012), IEC60598, IEC61347i/c connection wire, testing etc. to complete the job.				
	31.14.3	60W	60Watt, color temp 3000-6500k as required.	Each	7872.00	10.00	78720.00
	31.14.4	90/100W	90/100Watt, color temp 3000-6500k as required.	Each	11553.00	10.00	115530.00
31.19		LED Bulk Head	Supplying, fixing and testing of approved make LED bulkhead ABS body, PC diffuser including fixing on wall as required, with necessary material complete				
	31.19.2	10W	10W IP 55	Each	1805.00	13.00	23465.00
31.20		Integral step/skirt LED light	Supply, fixing and testing of approved make integral step/skirt LED light suitable for 3 module box and plate including fixing on wall as required, with necessary material to complete the job. Guarantee as per tender agreement condition.	Each	676.00	80.00	54080.00
31.17		LED strip	Supplying, fixing & testing of approved make flexible LED strip comprising of 60 LED per meter W/O driver for direct mounting complete with all accessories including connection lead, fixing, connection as required. Submission LM 79-08/IS16106 (2012), IEC60598, IEC61347i/c connection wire, testing etc. to complete the job.				

	31.17.1	24/25W	Flexible LED strip 24Watt/25Watt - 5 M indoor cove light W/O Driver IP20 -33	Each	1236.00	40.00	49440.00
	31.17.3	24/25W	Flexible LED strip 24Watt/25Watt - 5 M outdoor cove light W/O driver IP65	Each	1994.00	15.00	29910.00
31.18		Power supply for LED strip	Supplying, fixing & testing of approved make Power supply for LED strip				
	31.18.1	25/30W	Power supply 25Watt/30Watt for LED strip IP25/IP33	Each	533.00	40.00	21320.00
	31.18.4	25/30W	Power supply 25Watt/30Watt for LED strip IP65	Each	1331.00	15.00	19965.00
37.3		Earthing with G.I. earth plate 600x600x6 mm	Earthing with G.I. earth plate 600mm X 600mm X 6mm thick including accessories and providing masonry encloser in cement mortar, cover plate having locking arrangement on the top and G.I. watering pipe 20mm dia 2.7 metre long etc. (but without charcoal or coke and salt) complete as required	Each	7487.00	32.00	239584.00
37.4		Earthing with copper earth plate 600x600x3 mm	Earthing with copper earth plate 600mm X 600mm X 3mm thick including accessories and providing masonry encloser in cement mortar, cover plate having locking arrangement on the top and G.I. watering pipe 20 mm dia 2.7 metre long etc. (but without charcoal or coke and salt)complete as required	Each	16341.00	14.00	228774.00
	37.5.1	Add extra for using salt and charcoal/coke for G.I/copper plate (black soil)	Add extra for using salt and charcoal/coke for G.I. plate or copper plate earth electrode as required including excavation in hard rock and refilling the pit with black soil.	Each	2783.00	46.00	128018.00
37.9		25x5 mm G.I. strip	Supply and laying 25mm X 5mm G.I. strip at 0.5 metre below ground level as strip earth electrode including jointing etc. as required.	Metre	130.00	250.00	32500.00
37.11		25x5 mm Cu strip	Providing and fixing 25mm X 5mm copper strip in 40 mm dia G.I. Pipe from earth electrode as required	Metre	1490.00	110.00	163900.00
37.18		Loop earthing	Providing and fixing 4.87mm (6 SWG) dia. G.I. wire on surface or in recessed for loop earthing as required	Metre	30.00	600.00	18000.00
37.22		18mm dia 500mm long bright nickel plated GI tube	Providing and fixing of lightning conductor finial made of 18mm dia 500mm long bright nickel plated GI tube tapered having single prong at top with bright nickel plated GI base M10 for connection and intersection of flat or round conductor including holes, clamp complete as required.	Each	1285.00	12.00	15420.00

37.27		G.I. tape 20x3 mm (for horizontal runs)	Providing and fixing G.I. tape 20mm X 3mm thick on parapet and surface of wall of lightning conductor as required (for horizontal runs)	Metre	74.00	350.00	25900.00
37.28		G.I. tape 20x3 mm (for vertical runs)	Providing and fixing G.I. tape 20mm X 3mm thick on parapet and surface of wall of lightning conductor as required (for vertical runs)	Metre	85.00	300.00	25500.00
37.31		Testing joint 20x3 mm cu. Strip	Providing and fixing "Testing Joint" made by 20mm X 3mm thick copper strip 125mm long with 4 Nos of tinned Brass bolts, Nut, check nuts and spring washers etc. complete as required.	Each	525.00	12.00	6300.00
37.33		G.I. tape 38x6 mm	Providing and laying G.I. tape 38mm X 6mm thick for earth electrode directly in ground as required	Metre	222.00	600.00	133200.00
37.20		50x6 mm G.I. strip earth electrode	Supply and laying 50mm X 6mm G.I. strip at 0.5 metre below ground level/surface as strip earth electrode including jointing etc. as required.	Each	319.00	160.00	51040.00
38.1		Co-axial T.V. cable	Supplying and drawing co-axial T.V. cable RG-6 Grade, 0.7 mm solid copper conductor PE insulated, shielded with fine tinned copper braid and protected with PVC sheathed in existing surface/concealed, steel/PVC conduit as required.	Metre	30.00	12800.00	384000.00
38.2		Telephone cable, 0.5 mm PVC insulated cu. Conductor	Supplying and drawing following pair, 0.5 mm PVC insulated copper conductor unarmoured telephone cable in existing surface/concealed, steel/PVC conduit as required.				
	38.2.2	0.5 mm, 2 Pair	Telephone wire 0.5 mm, 2 Pair	Metre	36.00	10440.00	375840.00
	38.2.4	0.5 mm, 10 Pair	Telephone wire 0.5 mm, 10 Pair	Metre	97.00	1375.00	133375.00
38.4		Telephone tag block	Supply, installation testing and commissioning of telephone tag block krone connector with enclosure complete as mentioned below :-				
	38.4.2	20 Pair	20 Pair	Each	1009.00	16.00	16144.00
38.6		RJ-11 telephone jack modular	Supply, fixing and testing of RJ 11 telephone jack modular (1 Module)	Each	174.00	174.00	30276.00
38.8		T.V. outlet modular	Supply, fixing and testing of T.V. outlet modular (1Module)	Each	175.00	240.00	42000.00
38.11		4 Pair un-shielded twisted pair (UTP)	Supplying and drawing 4 pair un-shielded twisted pair (UTP), 0.5 mm PVC insulated copper conductor un-armoured Cat-6 computer cable FRLS in existing surface/concealed, steel/PVC. conduit/ casing-n-capping as required.	Metre	56.00	9375.00	525000.00
38.13		Patch cord	Supply, installation testing and commissioning of patch cord as mentioned below :-				

	38.13.1	CAT 6 RJ45, UTP 1metre	CAT 6 RJ45 patch cord UTP 1 metre	Each	436.00	100.00	43600.00
	38.13.2	CAT 6 RJ45, UTP 2metre	CAT 6 RJ45 patch cord UTP 2 metre	Each	548.00	6.00	3288.00
38.14		HDMI connector & braided cord	Supply, installation testing and commissioning of High-Speed HDMI corrosion-resistant connector & braided cable, Supports Ethernet, 3D, 4K video, computers and other HDMI-enabled devices Black as required to complete the job as mentioned below :-				
	38.14.3	5 Metre, HDMI cord	5 Metre, HDMI cord	Each	3825.00	5.00	19125.00
38.17		Rack	Supply, installation testing and commissioning of wall mounting rack, for computer switches/ Patch Panel etc complete as mentioned below :-				
	38.17.3	12U cabinet	12U cabinet 590X600X600, wall mounting with 6 point 5 Amp. socket power supply strip and fan, cable manager, tray as per site requirement.	Each	18211.00	7.00	127477.00
38.18		Floor mounting rack, base frame	Supply installation, testing and commissioning of floor mounting rack, base frame, top & bottom, front glass door with perforation, rear vented door, lockable & detachable side panels, 2 pairs 19" rail with depth members. fixed shelf, complete as mentioned below :-				
	38.18.3	36U cabinet	36U cabinet 1600X600X800, floor mounting with power supply and Fan, tray, equipment support angle, vertical cable manager, 12 point 5Amp. vertical power strip, earthing continuity kit, castors (1 set of 4 nos.), captive H/W set of 10, fan tray with 4 fan, for computer	Each	67089.00	1.00	67089.00
39.4		HDPE pipe	Supplying and laying of approved make HDPE pipe as per IS:4984 and IS:14333 with latest amendment for installation of submersible pump with necessary connection, socket/couplings, tees, etc. as required (PE-63 & working pressure 6 kgf/sq cm)				
	39.4.2	32 mm	32 mm Outer Dia.	Metre	120.00	50.00	6000.00
	39.4.3	40 mm	40 mm Outer Dia.	Metre	182.00	50.00	9100.00
			HT AND LT CABLES				
41.1		XLPE insulated power cable, al. conductor	Supply of XLPE insulated power cable (conforming IS-7098 Part-I) 1100 Volt grade, 1 core/2 core/3½ core/4 core ISI marked with alu. stranded /solid conductor				

	41.1.6	Armoured 3 core	Armoured 3 core				
	41.1.6.2	10 sq. mm.	10 sq. mm.	Metre	142.00	1800.00	255600.00
	41.1.8	3½ core armoured	3½ core armoured				
	41.1.8.1	25 sq. mm	25 sq. mm	Metre	231.00	470.00	108570.00
	41.1.8.3	50 sq. mm	50 sq. mm	Metre	373.00	125.00	46625.00
	41.1.8.6	120 sq. mm.	120 sq. mm.	Metre	780.00	750.00	585000.00
	41.1.8.7	150 sq. mm.	150 sq. mm.	Metre	904.00	1000.00	904000.00
	41.1.8.10	300 sq. mm.	300 sq. mm.	Metre	1792.00	80.00	143360.00
	41.1.10	4 core armoured	4 core armoured				
	41.1.10.1	6 sq. mm.	6 sq. mm.	Metre	151.00	3150.00	475650.00
	41.1.10.2	10 sq. mm.	10 sq. mm.	Metre	181.00	7000.00	1267000.00
	41.1.10.3	16 sq. mm.	16 sq. mm.	Metre	218.00	2700.00	588600.00
41.5		Gland	Brass compression gland				
	41.5.1	Gland for P.V.C. insulated armoured cable	Supplying and fixing heavy duty cable gland for P.V.C. insulated armoured cable with brass washer, rubber ring complete erected with cable and lead connection etc. as per specification complete.				
	41.5.1.1	22 mm	Gland size 22mm suitable for cable 2,3,3½, &4 x up to 6 sq. mm.	Each	79.00	130.00	10270.00
	41.5.1.2	22 mm	Gland size 22mm suitable for cable 2/3,3½, 2/4 x 10 sq. mm or 2x 16 sq. mm	Each	97.00	270.00	26190.00
	41.5.1.3	28 mm	Gland size 28mm for 3/4 x 16 sq. mm	Each	138.00	90.00	12420.00
	41.5.1.4	32 mm	Gland size 32 mm for 2/3, 3½, 4 x 25 sq. mm OR 2/3, 3½ x 35 sq. mm or 2/3/3½ x	Each	158.00	18.00	2844.00
	41.5.1.6	45 mm	Gland size 45 mm for 3/3½ x120 sq. mm , 3½ x95 sq. mm, 3 x150 sq. mm	Each	260.00	14.00	3640.00
	41.5.1.7	50 mm	Gland size 50 mm for 3½ x150 sq. mm , 3 x185 sq. mm	Each	290.00	20.00	5800.00
	41.5.1.9	70 mm	Gland size 70 mm for 3 x240 sq. mm ,3½ x300 sq. mm	Each	605.00	16.00	9680.00

41.7		Crimping type alum. Lugs	Supplying and fixing crimping type alum. lugs as per I.S.S. specification suitable for following size of cable with alu./copper solid/stranded conductor evenly crimped with high/pressure tool and connected to switch gear/bus/M.C.C.B./M.C.B. etc. as required complete.				
		For conductor size-					
	41.7.1	6 -16 sq. mm	6mm to 16 sq. mm	Each	8.00	1920.00	15360.00
	41.7.2	25 sq. mm	25 sq. mm	Each	14.00	30.00	420.00
	41.7.3	35 sq. mm	35 sq. mm	Each	22.00	30.00	660.00
	41.7.4	50 sq. mm	50 sq. mm	Each	22.00	34.00	748.00
	41.7.5	70 sq. mm	70 sq. mm	Each	35.00	24.00	840.00
	41.7.7	120 sq. mm	120 sq. mm	Each	58.00	54.00	3132.00
	41.7.8	150 sq. mm	150 sq. mm	Each	66.00	80.00	5280.00
	41.7.11	300sq. mm	300 sq. mm	Each	138.00	64.00	8832.00
41.14		Double wall corrugated pipes (DWC) of HDPE	Supplying and installing double wall corrugated pipes (DWC) of HDPE (IS 14930 Part II -marked) for cable laid underground with necessary material and at required depth upto 90cm. below road/ground surface, including excavation, back filling with excavated material, ramming and making the surface good.				
	41.14.1	50.00mm outside dia.	50.00mm outside dia.	Metre	133.00	100.00	13300.00
	41.14.2	63.00mm outside dia.	63.00mm outside dia.	Metre	175.00	350.00	61250.00
	41.14.7	210.00mm outside dia.	210.00mm outside dia.	Metre	532.00	150.00	79800.00
41.15		Cable laying	Cable laying				
	41.15.7	Laying, 1:1 KV grade of size not exceeding 25 sq. mm in the existing item	Laying of one number armoured / unarmoured power cable 1:1 KV grade of size not exceeding 25 sq. mm in the existing RCC hume/stone ware/G.I. pipe/DWC pipe/surface in existing trench as required.	Metre	28.00	15120.00	423360.00
	41.15.8	Laying, 1.1 KV grade of size exceeding 25 sq. mm but not exceeding 120 sq. mm. in the existing item	Laying of one number armoured / unarmoured power cable 1.1 KV grade of size exceeding 25 sq. mm but not exceeding 120 sq. mm. in the existing RCC Hume /Stone ware/G.I. Pipe/DWC pipe/surface in existing trench as required.	Metre	35.00	875.00	30625.00

	41.15.9	Laying, 1.1 KV grade of size exceeding 120 sq. mm but not exceeding 400 sq. mm. in the existing item	Laying of one number armoured / unarmoured power cable 1.1 KV grade of size exceeding 120 sq. mm but not exceeding 400 sq. mm. in the existing RCC Hume /Stone ware/G.I. Pipe/DWC pipe/surface in existing trench as required.	Metre	54.00	1080.00	58320.00
41.24		Cable tray	Supply and erection of hot dip G.I. cable tray perforation not more than 17.5% for specific dimensions along with tees, bends. The cable tray shall be hang from ceiling/ fixed to wall with necessary angle/flat iron/hanging rod, for ceiling suspensions, clamp, anchor fastener, nuts, bolts, washers, not more than 1.0 mtr. apart complete as per specification to complete the job. The tray shall be as follows :-				
	41.24.1	100x50x1.6mm thick	100 x 50 x 1.6mm thick	Metre	586.00	125.00	73250.00
	41.24.2	150x50x1.6mm thick	150 x 50 x 1.6mm thick	Metre	699.00	690.00	482310.00
	41.24.3	300x50x1.6mm thick	300x50x1.6mm thick	Metre	1027.00	625.00	641875.00
	41.24.4	450x50x2mm thick	450x50x2mm thick	Metre	1547.00	375.00	580125.00
	41.24.5	600x50x 2 mm thick	600x50x 2 mm thick	Metre	1909.00	550.00	1049950.00
42.10		Guard wire/earth wire/bearer wire 18.62 sq mm	Supplying and drawing guard wire/earth wire/bearer wire 18.62 sq mm (4.87mm. dia/6swg) G.I. including stringing, binding at existing insulators or brackets, jointing, jumpering, connecting & cradle etc. as required and clearing of obstacles (if any)	Km.	18761.00	375.00	7035375.00
42.2		RS Joist/H-Beam	Supply of support for overhead line RS joist of I.S. standard including drilling of required hole etc. complete as required.				
	42.2.6	H - Beam	H - Beam 152x152mm, Std weight 37.1 Kg/Mtr	Metre	2843.00	160.00	454880.00
42.5		AAAC conductors	Supplying and drawing all aluminium alloy conductor (AAAC) of approved make conforming to IS 398-1979 Pt. IV, including binding at existing insulator, jointing, jumpering, tearing off, connecting etc. as required including clearing of obstacles (if any)				
	42.5.3	Raccoon	AAAC 0.075 sq inch (80 sq.mm Al. EQ.)- (Raccoon)	Km.	79735.00	0.75	59801.25
42.20		Erection of poles, length exceeding 10 metres but not exceeding 15 metres	Erection of RS Joist pole/'H' beam/steel tubular/steel rail pole of length exceeding 10 metres but not exceeding 15 metres in cement concrete M-10 (1 cement:3 core sand: 6 graded stone aggregate 40mm nominal size) base, foundation, muffing including excavation and back refilling etc. as required.	Each	5289.00	12.00	63468.00

42.27		Stay set complete (galvanized) with 16mm dia x1.8 metre long stay	Supplying and erection of stay set complete (galvanized) with 16mm dia x1.8 metre long stay anchor plate of size 200mm x 200mm x 6.0mm thimble stay clamp turn buckle 19mmx600mm,7/3.15mm dia G.I. stay wire etc. in cement concrete M-10 (1 cement: 3 coarse and: 6 grinded stone aggregate 40mm nominal size) foundation including excavation and refilling etc. as required.	Each	3780.00	8.00	30240.00
42.30		Erection of stay set complete in cement concrete M-10	Erection of stay set complete in cement concrete M-10 (1 cement: 3 coarse sand: 6 graded stone aggregate 40mm nominal size) foundation including excavation and back refilling etc. as required.	Each	2165.00	8.00	17320.00
42.42		Angle/channel/flat iron fitting for overhead line & sub-station etc.	Supply, fabrication and erection of angle/channel/flat iron fitting for overhead line & sub-station etc such as 'D' bracket, cross arms, top clamp, 'V' cross arms, back/support clamp or other similar work etc. including nut bolts of required size, making holes, fabrication, welding, cutting, etc. and painting with one coat of red oxide paint & two coat of aluminium paint as required as per specification.	Kg.	105.00	1995.00	209475.00
42.52		11KV (5 KN) polymer pin insulator	Supplying and erection of 11KV (5 KN) polymer pin insulator complete with long steel head G.I. pin, nut, washer etc. as required.	Each	402.00	22.00	8844.00
42.53		11KV (45 KN) Polymer disc insulator for 11KV overhead lines	Supplying and erection of 11KV (45 KN) Polymer disc insulator for 11KV overhead lines with galvanized insulator fittings, ball and socket type, and complete with galvanized strain clamp, bolts, nuts washer etc. as required.	Each	502.00	12.00	6024.00
42.60		Single piece nonlinear resistor polymer type lighting arrester (set of 3 nos) for 3 wire, 11KV	Supplying and erection of single piece nonlinear resistor polymer type lighting arrester (set of 3 nos) for 3 wire, 11KV overhead lines/sub-station with rated voltage of 9KV (rms) with a nominal discharge current rating of 10 KA and complete with galvanized clamping arrangement, G.I. bolts, nuts, washer etc. as required.	Each	3617.00	4.00	14468.00
42.62		Outdoor H.T., AB switch assembly set	Supplying installing, testing & commissioning of outdoor H.T., AB switch assembly set gang operated with brass contact parts, including required GI pipe operating rod, handle & locking arrangement on On- Off position conforming to IS complete with required material and installing on existing DP structure to complete the job as required as per specification.(Set of 3 nos.)				
	42.62.1	11 KV, 400Amp	11 KV, 400Amp	Set	8989.00	4.00	35956.00

42.63		D.O. fuse	Supplying installing, testing & commissioning D.O. fuse assembly with brass part contact for 33 or 11/0.4 KV DP Structure set of 3 Nos. with fuse barrel i/c required fuse element & other materials as per specification on existing D.P. structure as required.				
	42.63.1	11KV	11KV	Set	4721.00	4.00	18884.00
42.67		Anti-climbing device	Supply & fixing anti climbing device with 2 ply G.I. barbed wire 1 Kg. per pole complete as per MPMKVCO. Specification.	Each	231.00	14.00	3234.00
42.68		G.I. earth coil of 4mm dia	Supply, laying and fixing of G.I. earth coil of 4mm dia G.I. wire having 120 turns of nearly 50mm dia. and 3 mt. long tail in existing pit duly earthed with pole etc complete as required as per specification.	Each	293.00	14.00	4102.00
42.69		Danger board	Supplying and fixing 33/11/0.4 KV enamel coated danger board size 200x250mm with clamp on existing HT/LT structure/poles.	Each	205.00	14.00	2870.00
42.70		Transformers, 11/0.4 KV 3 Phase	Supplying, installing, testing and commissioning of 11/0.4 KV 3 Phase 50 cycle oil immersed, naturally cooled, outdoor type transformer connected delta on H.T. side and star on L.T. side, dehydrating silica gel breather on eye level, rating and diagram plate, two earthing terminal, lifting lugs, oil level gauge, drain valve with plug, temperature not exceeding 50°C on load, oil filling hole with plug, four unidirectional roller, arcing horns, explosion vent, terminal arrangement bushing on H.V. side and cable box on LV side, first filling of oil upto desired level and transformer installing on existing structure with all required materials arrangement as required ISI marked & as per IS specification, hand operated off load tap changer switch above 100 KVA, oil conservator with drain valve, plug 63 KVA and above.				
		Level-3	Energy efficiency level -3 (New Level-2)				
	42.70.4	Cu. Wound	Cu. Wound				
	42.70.4.1	315 KVA	315 KVA	Each	1219029.00	4.00	4876116.00
42.77		Rubber mat	Supply of rubber mat 2 x 1.0Mtr, 1100V tested	Each	1913.00	14.00	26782.00
42.78		Hand gloves 11KV	Supply of hand gloves 11KV tested	Each	1077.00	1.00	1077.00
42.82		First aid box	Supply of first aid box complete with medicine & bandage as per specification.	Set	1646.00	3.00	4938.00
42.83		Shock instruction chart	Supply of shock instruction chart duly framed with glass, as reqd.	Each	539.00	3.00	1617.00

42.98		Octagonal poles	Providing and erection of hot dipped galvanized octagonal poles in single section made from 3mm thick sheet having lockable weather proof flush door junction box, suitable size & type of foundation bolts 4 nos. 'J' type (EN8 grade) complete, erected in an approved manner on provided foundation.				
	42.98.2	4 meter	4 meter height 130 X 70mm A/F, 200x200x12mm base plate, 4 nos X 16 x 450mm bolt having weight 3.2 ±3%	Each	5899.00	20.00	117980.00
42.111		Foundation for octagonal pole	Designing and construction of footing foundation for octagonal pole of desired size including excavation in soil/soft rock, base concrete M-7.5 (1:4:8), 15mm thick and pedestal of RCC M-20 (1:1.5:3), required tar steel reinforcement for required size from base concrete, shuttering, curing etc. with existing foundation bolts complete as per specifications in an approved manner as per manufacturer drawing or engineer-in-charge.	Cu. Mt.	6770.00	10.00	67700.00
48.1		DG set, Water cooled	Supply, installation, testing and commissioning of 'Silent Type' diesel generating set comprising with diesel engine water cooled, Synchronous alternator, AMF control panel single/three phase, acoustic enclosure, battery with charger and related accessories ncoming cable 10 mtr, exhaust pipe 'B' class with insulation as per CPWD specification and CPCB - IV Norms. Note:- 1. Two No Cu plate (600mmx600mmx3mm) earthing and Two No GI plate (600mmx600mmx6mm) earthing with GI/Cu Strip to be done for each installation as per specification and will be separately paid. 2. Suitable size of PCC/RCC platform to be made separately as per requirement and instruction of Enguineer-in-charge.				
	48.1.14	3 Phase, 150/160 KVA, Water cooled	Supply, installation, testing and commissioning of diesel generating set three phase, water cooled with AMF control panel, 150/160 KVA, 415V.With electronic governor.	Each	2746784.00	1.00	2746784.00
Grand Total							49093282.25
SAY							49093000.00
TOTAL AMOUNT (IN WORDS) - FOUR CRORE NINTY LACS NINTY THREE THOUSAND ONLY							

Applicable SOR : GOVERNMENT OF MADHYA PRADESH, PUBLIC WORKS DEPARTMENT, SCHEDULE OF RATES (SOR)