

**TENDER DOCUMENT OF ELECTRICAL WORKS FOR
RENOVATION WORK OF ELECTRICAL INSTALLTION OF ASTEC/AEDA BUILDING
BIGYAN BHAWAN, GS ROAD, GUWAHATI**

SI No	APWD Schdl No.	Description	Units	Qty	Rate (both in figures and words)	Amount (both in figures and words)
A. SCHEDULE ITEMS						
	PART - 2	Wiring in surface/ recessed PVC conduit FR (Finolex /RR Kabel /Nicco / Anchor or Equivalent Make as approved by the Deptt.) cable				
1.	2.7	Wiring for drawing sub-main line with P.V.C. insulated single core unsheathed industrial (Multistrand) cable FR conforming to IS-694: 1990 with flexible bright annealed electrolytic copper conductor for voltage grade up to 1100 volts (Finolex /RR Kabel /Nicco / Anchor or Equivalent Make as approved by the Deptt.) PVC conduit (Berlia/ AKG / Precision/ Presto Plast/Polycab/ MW or equivalent make as approved by the Deptt.) including earth continuity in surface/ recessed 20 mm. dia. 2mm thick/ heavy ISI marked IS: 9537 PART - III rigid PVC conduit wiring system.				
	2.7.1	With 2 x 2.5 sq. mm. + earth continuity with 1x1.5 sq. mm. in 20 mm. dia. 2mm thick/ heavy rigid PVC IS: 9537 Part - III conduit.	Metre.	100		
	2.7.2	With 2 x 4 sq. mm. + earth continuity with 1x2.5 sq. mm. cable in 20 mm. dia. 2mm thick/ heavy rigid PVC IS: 9537 Part - III conduit.	Metre.	60		
	2.7.3	With 2 x 6 sq. mm. + earth continuity with 1x 4 sq. mm. cable in 25 mm. dia. 2mm thick/ heavy rigid PVC IS: 9537 Part - III conduit.	Metre.	150		

Signature with seal
of Contractor

SI No	APWD Schdl No.	Description	Units	Qty	Rate (both in figures and words)	Amount (both in figures and words)
2.	2.9	Wiring for drawing sub-main line with P.V.C. insulated single core unsheathed industrial (Multistrand) cable FR conforming to IS-694: 1990 with flexible bright annealed electrolytic copper conductor for voltage grade up to 1100 volts (Finolex /RR Kabel /Nicco / Anchor or Equivalent Make as approved by the Deptt.) in surface/ recessed PVC 20 mm. dia. 2mm thick/ heavy ISI marked IS: 9537 PART - III rigid PVC conduit (Berlia/ AKG / Precision/ Presto Plast/Polycab/ MW or equivalent make as approved by the Deptt.) wiring system.				
	2.9.3	With 4x 6 sq. mm. + earth continuity with 2x4 sq. mm. cable in 32 mm. dia. 2mm thick/ heavy rigid PVC IS: 9537 Part - III conduit.	Metre.	50		
	2.9.4	With 4 x 10 sq. mm. + earth continuity with 2x6 sq. mm. cable in 40 mm. dia. 2mm thick/ heavy rigid PVC IS: 9537 Part - III conduit.	Metre.	100		
	2.9.5	With 4 x 16 sq. mm. + earth continuity with 2x10 sq. mm. cable in 40 mm. dia. 2mm thick/ heavy rigid PVC IS: 9537 Part - III conduit.	Metre.	150		

Signature with seal
of Contractor

SI No	APWD Schdl No.	Description	Units	Qty	Rate (both in figures and words)	Amount (both in figures and words)
	PART-13	SWITCH GEAR & PROTECTION - INDUSTRIAL SOCKETS, DB Without MCB & MCCB , MCB, RCCB, RCBO, SFU, CHANGE OVER ETC. (Legrand, ABB, Schneider MG, Hager make)				
3.	13.3	Supplying with fitting and fixing sheet steel, phosphatised, powder painted Single door surface mounting MCB enclosure incorporated with bas-bar, Neutral link, Earth bar and din rail etc fitted on wall with grouting nuts & bolts as reqd. complete with making necessary connection as approved, specified and directed by the deptt.				
	13.3.1	Legrand, ABB, Schneider MG, Hager make)				
	13.3.1.1	1 way single door	Each	25		
	PART-15	MCB DB (ABB, SCHNEIDER MG, LEGRAND, HAGER MAKE) & (SCHNEIDER NEO BREAK, C&S, Havells, INDOASIAN, HPL OR EQUIVALENT MAKE AS PPROVED BY THE DEPTT.)				
		MCB IN-comer SPN DB				
4.	15.2	Supplying with fitting and fixing sheet steel, phosphatised, powder painted dust & vermin proof Double door IP-43 surface mounting SPN MCB DB incorporated with bas-bar, Neutral link, Earth bar and din rail etc fitted on wall with grouting nuts & bolts as reqd. complete with making necessary connection as approved, specified and directed by the deptt.				
	15.2.1	Legrand, ABB, Schneider MG, Hager make				
	15.2.1.4	12 way SPN double door	Each	3		

Signature with seal
of Contractor

SI No	APWD Schdl No.	Description	Units	Qty	Rate (both in figures and words)	Amount (both in figures and words)
5.	15.8	Supplying with fitting and fixing sheet steel, phosphatised, powder painted dust & vermin proof Double door IP-43 double door surface mounting TPN MCB DB incorporated with bas-bar, Neutral link, Earth bar and din rail etc fitted on wall with grouting nuts & bolts as reqd. complete with making necessary connection as approved, specified and directed by the depts.				
	15.8.1	Legrand, ABB, Schneider MG, Hager make)				
	15.8.1.1	4 way TPN (4+12) double door	Each	3		
		MCB IN-comer TPN vertical DB)				
6.	15.20	Supplying with fitting and fixing sheet steel, phosphatised, powder painted dust & vermin proof Double door IP-43 double door surface mounting vertical TPN MCB DB incorporated with bas-bar 125A, Neutral link, Earth bar and din rail etc fitted on wall with grouting nuts & bolts as reqd. complete with making necessary connection as approved, specified and directed by the depts.				
	15.20.1	Legrand, ABB, Schneider MG, Hager make)				
	15.20.1.2	8 way TPN (8+24) double door	Each	3		

Signature with seal
of Contractor

SI No	APWD Schdl No.	Description	Units	Qty	Rate (both in figures and words)	Amount (both in figures and words)
7.	15.22	Supplying with fitting and fixing MCCB income and MCB outgoing sheet steel, phosphatised, powder painted double door IP-43 surface mounting vertical TPN MCB DB incorporated with bas-bar up to 250A, Neutral link, Earth bar and din rail etc fitted on wall with grouting nuts & bolts as reqd. complete with making necessary connection as approved, specified and directed by the deptt.				
	15.22.1	Legrand, ABB, Schneider MG, Hager make)				
	15.22.1.2	8way TPN (4+18) double door	Each	2		
	PART - 16	MCB, MCCB, RCCB, RCBO (ABB, SCHNEIDER MG, LEGRAND, AND HAGER MAKE) & (SCHNEIDER NEO BREAK, C&S, Havells, INDO ASIAN, HPL OR EQUIVALENT MAKE AS PPROVED BY THE DEPTT.) MCB (Conform to IS / IEC 60898-1:200/ MCCB (Conform to IS/IEC 60947- RCCB (Conform to IS/IEC 12640 / 61008)				
8.	16.1	Supplying with fitting and fixing single Pole 10 KA 240/415V 50Hz MCB of the following capacity complete with making necessary connection as approved, specified and directed by the deptt.				
	16.1.2	C Series (Schneider MG, legrand, Hager make)				
	16.1.2.1	6 to 32A	Each	26		
	16.1.2.2	40A	Each	2		

Signature with seal
of Contractor

SI No	APWD Schdl No.	Description	Units	Qty	Rate (both in figures and words)	Amount (both in figures and words)
9.	16.3	Supplying with fitting and fixing DP 10 KA 240/415V 50Hz MCB of the following capacity complete with making necessary connection as approved, specified and directed by the deptt.				
	16.3.2	C Series (Legrand, ABB, Schneider MG, Hager make)				
	16.3.2.1	6 to 32A	Each	1		
	16.3.2.2	40A	Each	1		
10.	16.4	Supplying with fitting and fixing TP 10 KA 240/415V 50Hz MCB of the following capacity complete with making necessary connection as approved, specified and directed by the deptt.				
	16.4.2	C Series (Legrand, ABB, Schneider MG, Hager make)				
	16.4.2.1	6 to 32A	Each	1		
	16.4.2.2	40A	Each	18		

Signature with seal
of Contractor

SI No	APWD Schdl No.	Description	Units	Qty	Rate (both in figures and words)	Amount (both in figures and words)
	16.4.2.3	63A	Each	7		
11.	16.6	Supplying with fitting and fixing 4P 10 KA 240/415V 50Hz MCB of the following capacity complete with making necessary connection as approved, specified and directed by the deptt.				
	16.6.2	C Series (Legrand, ABB, Schneider MG, Hager make)				
	16.6.2.1	6 to 32	Each	1		
	16.6.2.2	40A	Each	2		
	16.6.2.3	63A	Each	1		

Signature with seal
of Contractor

SI No	APWD Schdl No.	Description	Units	Qty	Rate (both in figures and words)	Amount (both in figures and words)
		MCCB with Thermal & Magnetic Release				
12.	16.13	Supplying with fitting and fixing panel mounting open execution 25 KA 415V 50Hz 3P MCCB (Ics=Icu, adjustable Ir setting 0.7) without enclosure of the following capacity complete with making necessary connection as approved by the Deptt. as specified and directed by the deptt.				
	16.13.1	25 KA 415V 50 Hz 3P MCCB (Schneider, legrand, Siemens make)				
	16.13.1.6	100A	Each	1		
	PART - 22	EARTHING				
13.	22.3	Supply with installation & commissioning of readymade maintenance free CPRI approved chemical earthing system with 80 mm dia. 2.00 Metres length corrosion free dual pipe technology G.I. CHEMRODE ELECTRODE complete with RESLOW Grounding Minerals (25 K and Advance Earth Pit cover (PV including excavation of earth pit and construction brick earth chamber including plastering both inner & outer surface of brick wall as specified and directed by the deptt.	Each	2		
14.	22.20	Supplying & laying of following size G.I. strips drawn on surface from earth electrode to Electrical switch gears, machineries etc complete with supply of G.I. nuts & bolts, screws etc including riveting, soldering & making necessary connection as approved, specified and directed by the deptt.	Metre.	50		

Signature with seal
of Contractor

SI No	APWD Schdl No.	Description	Units	Qty	Rate (both in figures and words)	Amount (both in figures and words)
	PART - 32	U. G. CABLE AND CABLE WORKS				
15.	32.1	Supply and laying of following size PVC/XLPE insulated and PVC sheathed 1.1 KV G Solid Aluminium conductor up to 10 sq mm balance stranded conductor, XLPE Insulated, cores laid up, PVC tape inner sheathed, Armour (Aluminium for single core up to 70 sq mm balance Aluminium strip, Galvanised for cables up to 2x10 sq mm, 3x10 sq mm, 4x6 sq mm balance all galvanised steel strip) , extruded PVC Type ST2 sheathed, 650/1100V grade as per IS 7908(Part 1) 1988 armoured U.G. cable U.G. cable laid in ground/partially in air (as required for termination over ground including excavation of cable trench up to depth of 75cm, refilling, protective brick covering, Sand cushioning etc complete handling of surplus spoil, debris et to proper place as specified and directed by the deptt. (Nicco/ Havells/ RPG/CCI/Polycab/Gloster/ Finolex make) .				
	32.1.3	3 & 1/2 Core A2XFY				
	32.1.3.1	25.00 Sq. mm. 3 & 1/2 Core armoured U.G. cable	Metre	40		
	32.1.3.4	70.00 Sq. mm. 3 & 1/2 Core armoured U.G. cable	Metre	50		
		TOTAL SCHEDULE ITEMS (A)				

Signature with seal
of Contractor

SI No	APWD Schdl No.	Description	Units	Qty	Rate (both in figures and words)	Amount (both in figures and words)
B. NON-SCHEDULE ITEMS						
16.		Refurbishing of the existing Panel and rewiring including making connections etc. as required and directed	Lumsu m	1		
17.		Dismantling, providing temporary uninterrupted power whenever and wherever required at the time of execution of work including making good of all damages done as directed.	Lumsu m	1		
		TOTAL NON-SCHEDULE ITEMS (B)				
		GRAND TOTAL (A + B)				

Signature with seal
of Contractor