

**ASSAM PROJECT
ON
FOREST AND BIO-DIVERSITY CONSERVATION**

**BILL OF QUANTITIES OF INTERNAL ELECTRICAL WORKS
FOR
CONSTRUCTION OF NEW RESIDENTIAL COMPLEX
– AT REHABARI, GUWAHATI - 781 008.**

SENIOR LEVEL OFFICER

SI No	Specification of item of works	Unit	Quantities	Rate in Rs.		Amount (in Rs.)
				(in Figures)	(in Words)	
1.	Wiring in surface/ recessed PVC conduit FR (Finolex /RR Kabel /Nicco / Anchor or Equivalent Make as approved by the Deptt.) cable					
	CIRCUIT WIRING 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.					

SI No	Specification of item of works	Unit	Quantities	Rate in Rs.		Amount (in Rs.)
				(in Figures)	(in Words)	
(i)	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.	RM	3100.00			
(ii)	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.	RM	100.00			
(iii)	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.	R.M	30.00			
2.	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.					

SI No	Specification of item of works	Unit	Quantities	Rate in Rs.		Amount (in Rs.)
				(in Figures)	(in Words)	
(i)	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.	680.00			
3.	Wiring for 5 pin 6 amp plug with 1.5 sq mm 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.) including 5 pin 6 amp socket outlet (Anchor penta /Gold medal /Kolor kany.Kom/Havells or equivalent make as approved by the Deptt.)make) and 6 amp flush type switch (Anchor penta /Gold medal /Kolor kany.Kom/Havells or equivalent make as approved by the Deptt.)make) earthing the 3rd pin of the socket as required on the switch board in surface/ recessed P.V.C. conduit wiring system. When fitted on same board of light and fan.	Each	218			

SI No	Specification of item of works	Unit	Quantities	Rate in Rs.		Amount (in Rs.)
				(in Figures)	(in Words)	
4.	Wiring to 5 a pin 6 Amps plug point with 1.5 sq. mm 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 2 mm thick/ heavy rigid 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 including earth continuity with 1.5 sq. mm. cable to third pin of the plug socket etc. as required complete.	Each	18			
(i)	Long point up to 10.00 metre. Length.					

SI No	Specification of item of works	Unit	Quantities	Rate in Rs.		Amount (in Rs.)
				(in Figures)	(in Words)	
5.	Wiring for 5/6 pin 16 Amps power plug point with 4 sq. mm. 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 conduit wiring system including earth continuity with 2.5 sq. mm cable to the 3rd pin of the socket as required complete with 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.)	Each	72			
(i)	Long point up to 10.00 metre. Length.					

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				(in Figures)	(in Words)	
6.	Wiring for light/fan/call bell point with 3x1.5 sq. mm. 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 conduit wiring system with 20mm dia 2mm thick / heavy rigid PVC IS: 9537 Part - III conduit (Berlia/ AKG / Precision/ Presto Plast/Polycab/ MW or equivalent make as approved by the Deptt.) ceiling rose etc. complete	Each	275			
(i)	Short point up to 3.00 metre. length.					
(ii)	Medium point up to 6.00 metre. Length.	Each	367			
(iii)	Long point up to 10.00 metre. Length.	Each	276			

SI No	Specification of item of works	Unit	Quantities	Rate in Rs.		Amount (in Rs.)
				(in Figures)	(in Words)	
7.	MODULAR SWITCH Supplying including and fixing of following Metal boxes for MODEL RANGE LEGRAND (MYRIUS), ANCHOR (VIOLA), MK (WRAPAROUND/ PLUS), ABB (CHEIRON), KOLORS (KREST), SCHNEIDER (VIVACE), CRABTREE in surface/ recessed system complete as per direction of department.					
(i)	1-2 module type Metal	Each	217			
(ii)	3 module type Metal	Each	72			
(iii)	4-5 module type Metal	Each	198			
(iv)	6-8 module type Metal	Each	111			
(v)	10 module type Metal	Each	18			

SI No	Specification of item of works	Unit	Quantities	Rate in Rs.		Amount (in Rs.)
				(in Figures)	(in Words)	
8.	Supplying including fitting fixing of following front plate of suitable colour MODEL RANGE LEGRAND (MYRIUS), ANCHOR (VIOLA), MK (WRAPAROUND/PLUS), ABB (CHEIRON), KOLORS (KREST), SCHNEIDER (VIVACE), CRABTREE as per direction of department.					
(i)	1 module	Each	91			
(ii)	2 module	Each	126			
(iii)	3 module	Each	72			
(iv)	4 module	Each	108			
(v)	5 module	Each	90			

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				(in Figures)	(in Words)	
(vi)	6 module	Each	20			
(vii)	8 module	Each	91			
(viii)	10 module	Each	18			
9.	Supplying including fitting and fixing of TV co-axial outlet MODEL RANGE LEGRAND (MYRIUS), ANCHOR (VIOLA), MK (WRAPAROUND/ PLUS), ABB (CHEIRON), KOLORS (KREST), SCHNEIDER (VIVACE), CRABTREE including making necessary connection as per direction of department.	Each	36			

SI No	Specification of item of works	Unit	Quantities	Rate in Rs.		Amount (in Rs.)
				(in Figures)	(in Words)	
10.	Supplying with fitting and fixing of RJ-11 Telephone jack MODEL RANGE LEGRAND (MYRIUS), ANCHOR (VIOLA), MK (WRAPAROUND/ PLUS), ABB (CHEIRON), KOLORS (KREST), SCHNEIDER (VIVACE), CRABTREE including making necessary connection as per direction of department.	Each	36			
11.	Supplying with fitting and fixing of electronic chime MODEL RANGE LEGRAND (MYRIUS), ANCHOR (VIOLA), MK (WRAPAROUND/ PLUS), ABB (CHEIRON), KOLORS (KREST), SCHNEIDER (VIVACE), CRABTREE including making necessary connection as per direction of department.	Each	18			

SI No	Specification of item of works	Unit	Quantities	Rate in Rs.		Amount (in Rs.)
				(in Figures)	(in Words)	
12.	Supplying with fitting fixing of blank plate single in modular switch system MODEL RANGE LEGRAND (MYRIUS), ANCHOR (VIOLA), MK (WRAPAROUND/ PLUS), ABB (CHEIRON), KOLORS (KREST), SCHNEIDER (VIVACE), CRABTREE complete as per direction of department.	Each	54			
13.	Supplying with fitting and fixing of Single Phase Modular Motor Starter switch MODEL RANGE LEGRAND (MYRIUS), ANCHOR (VIOLA), MK (WRAPAROUND/ PLUS), ABB (CHEIRON), KOLORS (KREST), SCHNEIDER (VIVACE), CRABTREE including making necessary connection as per direction of department. Modular Motor Starter Relay Range 16 - 25 Amps in 3 Module	Each	54			
14.	Supplying with fitting and fixing of 100 watt electronic modular fan speed controller 4 - Step 2 - module type MODEL RANGE LEGRAND (MYLINC), ANCHOR (ROMA), MK (IVORY), ABB (CLASSIC), KOLORS (KRAZE), SCHNEIDER (OPAL), PHILIPS, Havells including making necessary connection as per direction of department.	Each	163			

SI No	Specification of item of works	Unit	Quantities	Rate in Rs.		Amount (in Rs.)
				(in Figures)	(in Words)	
15.	Supplying with fitting fixing of 6 amp one way modular clip in bell push with LED MODEL RANGE LEGRAND (MYLINC), ANCHOR (ROMA), MK (IVORY), ABB (CLASSIC), KOLORS (KRAZE), SCHNEIDER (OPAL), PHILIPS, Havells including making necessary connection as per direction of department.	Each	18			
16.	Supplying including installation of socket outlet 6/16 Amps 3/5 pin combine shuttered complete , MODEL RANGE LEGRAND (MYLINC), ANCHOR (ROMA), MK (IVORY), ABB (CLASSIC), KOLORS (KRAZE), SCHNEIDER (OPAL), PHILIPS, Havells including making necessary connection as per direction of department.	Each	72			
17.	Supplying including installation of socket outlet 6 Amps 3 pin combine shuttered complete , MODEL RANGE LEGRAND (MYLINC), ANCHOR (ROMA), MK (IVORY), ABB (CLASSIC), KOLORS (KRAZE), SCHNEIDER (OPAL), PHILIPS, Havells including making necessary connection as per direction of department.	Each	236			

SI No	Specification of item of works	Unit	Quantities	Rate in Rs.		Amount (in Rs.)
				(in Figures)	(in Words)	
18.	Supplying with fitting fixing of 16 amp one way modular clip in switch, MODEL RANGE LEGRAND (MYLINC), ANCHOR (ROMA), MK (IVORY), ABB (CLASSIC), KOLORS (KRAZE), SCHNEIDER (OPAL), PHILIPS, Havells including making necessary connection as per direction of department.	Each	72			
19.	Supplying with fitting fixing of 6 amp one way modular clip in switch, MODEL RANGE LEGRAND (MYLINC), ANCHOR (ROMA), MK (IVORY), ABB (CLASSIC), KOLORS (KRAZE), SCHNEIDER (OPAL), PHILIPS, Havells including making necessary connection as per direction of department.	Each	1154			
	SUPPLY AND FIXING OF RIGID PVC CONDUIT (AKG / Precision/ Presto Plast/Polycab/ MW or equivalent make as approved by the Deptt.) IN SURFACE AND RECESS WIRING SYSTEM					
20.	Supply and fixing 19 mm dia 2.00mm average wall thickness heavy rigid PVC IS: 9537 Part - III conduit (Berlia/ AKG / Precision/ Presto Plast/Polycab/ MW or equivalent make as approved by the Deptt.) in recessed system including cutting the wall and making good the same as required:	Metre	400.00			

SI No	Specification of item of works	Unit	Quantities	Rate in Rs.		Amount (in Rs.)
				(in Figures)	(in Words)	
21.	<p>Wiring with P.V.C. insulated unsheathed 1.1 K.V. grade single core copper conductor FR cable in existing surface/ recessed conduit wiring system</p> <p>Wiring for Co - axial Jelly Flooded (Unarmoured) (FINOLEX /RR KABEL /NICCO / ANCHOR make) cable in existing surface conduit wiring system including connection etc as required.</p> <p>Co - axial Jelly Flooded (Unarmoured) RG 6 (Copper)</p>	Metre	500.00			
22.	<p>EPABX</p> <p>Supplying ,installation, testing & commissioning of Distribution Box 50 pairs with Kronas (SIEMENS or equivalent as approved by the Deptt.)</p>	Each	1			
23.	<p>Supplying ,installation, testing & commissioning of 2 pair Unarmoured Telephone Cable through existing conduit in surface/ recess system.</p>	Metre.	1000.00			

SI No	Specification of item of works	Unit	Quantities	Rate in Rs.		Amount (in Rs.)
				(in Figures)	(in Words)	
24.	<p>FITTINGS AND ACCESSORIES (ALL PRODUCTS SHOULD BE ENERGY EFFICIENT AND ENVIRONMENT FRIENDLY)</p> <p>Supplying and fixing of 250/305 mm dia (Nominal size flush type circular ceiling fittings complete with holder, Aluminium anodized back plate and brass holder, 20 Watt CFL lamp including connection as approved by the Deptt.)as required. [CL]</p>	Each	108			
25.	Supplying and fixing of Fan box (AKG or equivalent as approved by the Deptt.)with inbuild rod as required.	Each	163			
26.	Supplying and fixing of polished Brass Bracket of 18 S.W.G, 25 cm long cast back plate and brass lamp holder complete including connection as approved by the Deptt.)as required Without Lamp/ [BK]	Each	182			

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27.	Supplying and fitting of 18/20 Watt CFL lamp in the existing batten holder/angle holder/decorative bracket/bulk head fitting/pendent holder etc. as specified and directed by the deptt.	Each	290			
28.	Supplying and fixing of Frosted glass shade of 100 mm dia (Nominal Size as required).	Each	182			
29.	MCB DB (ABB, SCHNEIDER MG, LEGRAND, HAGER MAKE) & (SCHNEIDER NEO BREAK, C&S, Havells, INDOASIAN, HPL OR EQUIVALENT MAKE AS PPROVED BY THE DEPTT.)	Each	1			
	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.					
i)	ABB, Schneider MG, legrand, Hager make) 12 way SPN Double Door					

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				(in Figures)	(in Words)	
30.	<p>MCB IN-comer TPN (Horizontal DB) 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 deptt.</p> <p>ABB, Schneider MG, legrand, Hager make)</p> <p>i) 4 way TPN (4+12) double door</p>	Each	18			
31.	<p>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)</p> <p>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.</p> <p>C Series (Schneider MG, legrand, Hager make) 6 to 32A</p>	Each	226			

SI No	Specification of item of works	Unit	Quantities	Rate in Rs.		Amount (in Rs.)
				(in Figures)	(in Words)	
32.	<p>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.</p> <p>C Series (ABB, Schneider MG, legrand, Hager make) 6 to 32A</p>	Each	1			
33.	<p>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.</p> <p>C Series (ABB, Schneider MG, legrand, Hager make) 40A</p>	Each	18			
34.	<p>Supplying with fitting and fixing 30/100/300mA sensitivity 240/415V 50Hz DP RCCB of the following capacity complete with making necessary connection as approved, specified and directed by the deptt.</p> <p>100/300mA sensitivity DP RCCB (ABB, Schneider MG, legrand, Hager make) 25A</p>	Each	1			

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				(in Figures)	(in Words)	
35.	<p>Supplying with fitting and fixing 30/100/300mA sensitivity 240/415V 50Hz 4P RCCB of the following capacity complete with making necessary connection as approved, specified and directed by the deptt.</p> <p>100/300mA sensitivity 4P RCCB(ABB, Schneider MG, legrand, Hager make) 40A</p>	Each	18			
36.	<p>EARTHING</p> <p>Supply, installation & testing of G.I. earth station with perforated 40 mm dia and 4.50 Metre long heady duty G.I. pipe with necessary 40 mm dia. G.I. Fittings such as Socket, Tee, elbow, nipple and 50 mmx40 mm G.I. reducing socket for funnel including locking arrangement 300 mmx300 mmx6 mm hinged cover C.I. earth plate complete with digging of earth pit, construction of brick chamber and plastering of both inner & outer surface of wall as specified and directed by the deptt .</p>	Each	4			

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37.	Supply, installation & testing of Copper Plate earth station with 600 mmx600 mmx3 mm copper earth plate with necessary 40 mm dia. G.I. medium duty watering pipe with G.I. Fittings such as Socket, Tee, elbow, nipple and 50 mmx40 mm G.I. reducing socket for funnel including locking arrangement with 300 mmx300 mmx6 mm C.I. hinged cover plate complete with digging of earth pit, construction of brick chamber and plastering of both inner & outer surface of wall as specified and directed by the deptt .	Each	2			
38.	Extra for using salt (5 K and Charcoal (64 K in pipe Earth Station pit to provide low impedance ground in location of high soil resistivity as and when required and specified by the Deptt.	Each	4			
39.	Extra for using salt (5 K and Charcoal (96 K in G.I./Copper plate Earth Station pit to provide low impedance ground in location of high soil resistivity as and when required and specified by the deptt .	Each	2			
40.	Supplying & laying of 6 SWG G.I. earth from Earth Electrode (below G.L.) to electrical switch gears or electrical machineries including making necessary connection as approved, specified and directed by the deptt.	Metre.	100.00			

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				(in Figures)	(in Words)	
41.	Supplying & laying of following size 25mmX5mm 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.	R.M.	100.00			
42.	Supplying & laying of following 25mmX5mm size Copper strips drawn on surface from earth electrode to Electrical switch gears, machineries etc complete with supply of Brass nuts & bolts, screws etc including riveting, soldering & making necessary connection as approved, specified and directed by the deptt.	Metre.	40.00			
43.	Supply, fitting & fixing of Lighting Finial Arrestor made of 25 mm dia 300 mm long solid G.I. tube having 85 mm dia. single prong at top and 3 mm base plate at bottom complete with fitting & fixing with G.I. nuts & bolts on roof, RCC slab, top of column etc. as specified and directed by the deptt.	Each	2			

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				(in Figures)	(in Words)	
44.	Supply, fitting & fixing 20 mmx5 mm G.I. strips drawn on vertically or horizontally on building wall/parapet wall in surface system complete with supply of G.I. Nuts & Bolts, Screws etc including riveting, soldering and making connection as approved by the Deptt.)with earth electrode G.I. strips and Lightning Arrestor etc. as specified and directed by the deptt.	Per metre	180.00			
45.	<p>LUMINAIRES</p> <p>Supplying with fitting fixing of CFL/Fluorescent luminaires complete with all accessories such as ballast, starter etc. directly on wall / ceiling including connection as approved by the Deptt.)with 1.5 sq mm P.V.C. insulated S.C. copper conductor as required and as directed by the department.</p> <p>Sleek Box type luminaires complete with Electronic ballast and plastic holder brackets with 1 X 36 / 40 watt Fluorescent tube.(Crompton Greaves make) Model-DJB 1314LDB50 / DJBN1314EB CROMTEK with Super Saver / Super Brite Lamp or equivalent (Equivalent will be selected by the deptt considering the mother items rate) PHILIPS/ WIPRO/ BAJAJ/ Havells/ HPL/ SOLAR/ JAQUAR make. [TL]</p>	Each	228			

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				(in Figures)	(in Words)	
46.	<p>CEILING FAN, EXHAUST FAN AND AIR CURTAIN</p> <p>Supplying including fitting fixing of following A.C. Ceiling fan complete with all accessories like down rod, canopy etc. of following sweeps with making necessary connection as approved by the Deptt.)as required complete and as directed by the Department [Without regulator].</p> <p>Premium model 1200 mm Sweep (ORIENT PSPO make) / Premium model 1050 / 1200 mm Sweep SS-390 Deco Havells make) [F]</p>	Each	163			
47.	<p>Supplying including fitting fixing of following A.C. Exhaust fan in the existing hole on the wall of following sweeps with making necessary connection as approved by the Deptt.)as required complete and as directed by the Department.</p> <p>Domestic Ventil Air DB 300 mm sweep (Havells make) [EF]</p>	Each	57			

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				(in Figures)	(in Words)	
48.	<p>U. G. CABLE AND CABLE WORKS</p> <p>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) .</p>	Metre	40.00			
i)	6.00 Sq.mm 3 Core armoured U.G. cable					

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ii)	3 & 1/2 Core A2XFY					
a)	25.00 Sq. mm.3 & 1/2 Core armoured U.G. cable	Metre	40.00			
b)	185.00 Sq. mm.3 & 1/2 Core armoured U.G. cable	Metre	180.00			

SI No	Specification of item of works	Unit	Quantities	Rate in Rs.		Amount (in Rs.)
				(in Figures)	(in Words)	
49.	Supply and laying of following size 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, LT armoured U.G. cable laid in pucca flooring, road crossing, drain crossing as per site requirement and partially in air to connection as approved by the Depts. the control switch, through medium duty G.I. pipe (Tata/ Nezone make or equivalent as approved by the Deptt) bend and socket including excavation and refilling the trench and making good damage done as specified and directed by the deptt. (Nicco/ Havells/ RPG/CCI/ Polycab/ Gloster/ Finolex make)	Metre	5.00			
(i)	6.00 Sq.mm 3 Core U.G. cable in 32mm dia medium duty G.I. pipe					
(ii)	185.00 Sq.mm 3&1/2 Core U.G. cable in 80mm dia medium duty hot dip G.I. pipe (AKG OR equivalent as approved by the deptt.)	Metre	15.00			

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50.	Supplying including installation of cast iron cable marker as specified and directed by the deptt.	Each	30			
51.	<p>CABLE KITS</p> <p>Supply including fitting and fixing of 1.1 KV PVC/XLPE cable INDOOR/OUTDOOR end termination Kits (Raychem RPG make) HEAT SHRINK TYPE including all accessories for the following sizes including testing and commissioning as specified and directed by the Deptt.</p> <p>185.00 -300.00 Sq.mm., 3/ 3.5/ 4 Core cable.</p>	Each / Set	4			

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				(in Figures)	(in Words)	
52.	<p>MAIN LT PANEL-SENIOR LEVEL OFFICERS QUARTERS</p> <p>Supplying and installation of metal enclosed floor mounted front operated cubical type switch gear panel suitable for indoor installation conforming to IS: 8623 (Part I & II). Panel should be made of sheet steel and thickness not less than 2mm and structural steel having light section. The panel shall be completely dust tight and vermin proof and shall be painted with anti corrosive and anti condensation type two coats of primer and two coats of paint. All wiring shall be PVC insulated and PVC sheathed of 1100 volt grade of required size. The panel should have provision of entry of cable at the bottom and also provision of out going feeders from the bottom of the panel. The panel shall incorporated busbar system of high quality electrolytic copper with uniform cross section. The panel shall consist of the following items (viz. multi function digital voltmeter, ammeter, CT, indicating lamps, selector switch etc.) connected as per drawing and shall be flush mounted on the front of the panel.</p> <p>Incomer 400A 4P MCCB, 36 KA – 1 No. Bus-Bars: 800 Amps TPN electrolytic copper bus bar of uniform cross-section – 1 set (50mmx10mm)</p>	Set	1			

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	Outgoing 40A 4P MCB – 20 nos. 32A DP MCB – 1 Nos. Selector Switch –2 Nos. Digital Multi Function Meter , Ammeter, Voltmeter, PF meter – 4 Nos. CT400A/5A - 2 Sets. Switch Fuse Unit – 6 Nos. LED Indicating Lamp Unit –3 Nos. (Posivisions to be kept for fixing ASEB tested 18 nos. of single Phase and 1no. single Phase electronic energy meter in the panel.)					
53.	Supply installation testing and commissioning of Brass Bracket Light with decorative shade including supply of 1 no. of 18 W CFL lamp [BKD]	Each	54			
54.	Supply installation testing and commissioning of Brass Bed Side Light of make Decon Cat No. 05 BT or equivalent including supply of 1x60W GLS lamp. [BKB]	Each	54			

SI No	Specification of item of works	Unit	Quantities	Rate in Rs.		Amount (in Rs.)
				(in Figures)	(in Words)	
55.	Recessed type Night Lamp / Skirting Light of reputed make with 1 no. of 6W CFL (milky lamp). (NL)	Each	54			
56.	Supply, Installation antistatic rubber mat suitable for 1.1 KV Voltage grade	Sq.M	2.00			
57.	Supply, Fitting Fixing of Shock Treatment Chart	Each	4			
TOTAL = Rs.						

(Rupees

Signature of the Contractor :

Date & Seal :