

TECHNICAL SPECIFICATION

Electrical Activity for new Infrastructure area in ITPS Colony

1. The contractor must engage of skilled "C" class lineman/ "B" class wireman for each shift operation (A/B/C) and general shift through the year.
2. The contractor must engage one no. supervisor (Skilled Category) having diploma in electrical engineering with minimum 02-year experience and one no. semiskilled workmen in general shift.
3. As and when required, the contractor must give required manpower to cater the emergency and unforeseen jobs round the clock throughout the year.
4. All materials required for the job will be supplied by the agency as per BOQ.
5. All materials to be supply must be the make and model order by the EIC as per site requirement and also having ISI marked.
6. The following minimum tools and plants will arranged by the contractor to use in the day to day maintenance jobs as mentioned in the major work to be cover in Annexure-1.The contractor have to build cost of tools & plants in the item rates in the BOQ. No separate payment will be made for utilization the T&Ps.
7. Tools and plant:-

Tools & Plants for AMC contract				
Contractor should have following T & P for smooth maintenance of Colony				
Sl.No	Item Description	Unit	No	Remarks
1	Multi meter	Nos	2	Certified by STL BBSR / Authorised agency
2	Tongue Tester	Nos	1	Certified by STL BBSR / Authorised agency
3	Insulation plier	Nos	2	Tapria/ equivalent make
4	Insulation Screw Driver 8"	Nos	2	Tapria/ equivalent make
5	Insulation Screw Driver 10"	Nos	2	Tapria/ equivalent make
6	Good quality tools bag	Nos	2	Tapria/ equivalent make
7	Ring spanner set(Jalani)	Set	1	Tapria/ equivalent make
8	Disc spanner Set (Taparia)	Set	1	Tapria/ equivalent make
9	Box spanner set (Taparia)	Set	1	Tapria/ equivalent make
10	Allen key set (Taparia)	Set	1	Tapria/ equivalent make
11	Crimping tools (1 to 25 sqmm)	Nos	1	Tapria/ equivalent make

12	Slidge wrench 8"	Nos	1	Tapria/ equivalent make
13	Good quality torch light	Nos	1	Tapria/ equivalent make
14	Full body harness	Nos	1	Tapria/ equivalent make
15	Umbrella/ Rain wear	Nos	2	Reputed make

8. All the tools and plants should have tested/calibrated certificate and contractor have to maintain the record of testing/calibration etc. The calibration/testing reports will be provided by the contractor to OPGC.
9. Valid license of the contractor & Electricians.
 - A) Contractor—HT License
 - B) Skilled Electrician (General Shift) -- 'C' Lineman/ 'B' wiremen, having minimum of 3 years of inline experience.
 - C) Supervisor – Diploma in Electrical Engineering and having minimum 2 years inline experience.
 - D) Deployment of all work person will be as per direction of EIC.
10. The contractor must issue minimum PPE's (like-Helmet, Goggle, dust mask, shoe & hand gloves) & uniform to all staff & maintain PPE's issue register. The cost of which enclosed in the item rate of BOQ.
11. The contractor should have minimum 02 years in line experience for the work to maintenance in a big township.
12. Specification and make of materials

Sl. No	Detail Description	Specification/ Model	Make
1	Supply and fixing of Modular Switch 6 amp of approved make as advice by EIC, including conveyance, labour, T&P, etc. the existing manpower will be utilized for fixing of the materials as per direction of EIC.	5/6/10 Amp Modular type, ISI marked	Anchor/Cona/Havells/Legrand/C&S/L&T
2	Supply and fixing of Modular Switch 16/20 amp of approved make as advice by EIC, including conveyance, labour, T&P, etc. the existing manpower will be utilized for fixing of the materials as per direction of EIC.	16/20/25 Amp Modular type, ISI Marked	Anchor/Cona/Havells/Legrand/C&S/L&T
3	Supply and fixing of Modular two-way switch 6 amp of approved make as advice by EIC, including conveyance, labour, T&P, etc. the existing manpower will be utilized for fixing of the materials as per direction of EIC.	5/6/10 Amp Modular type, ISI marked	Anchor/Cona/Havells/Legrand/C&S/L&T
4	Supply and fixing of Modular Socket 5pin 6amp of approved make as advice by EIC, including conveyance, labour, T&P, etc. the existing manpower will be utilized for fixing of the materials as per direction of EIC.	5/6/10 Amp Modular type, ISI marked	Anchor/Cona/Havells/Legrand/C&S/L&T
5	Supply and fixing of Modular socket 5pin 16/20amp of approved make as advice by EIC, including conveyance, labour, T&P, etc. the existing manpower will be utilized for fixing of the materials as per direction of EIC.	16/20/25 Amp Modular type, ISI Marked	Anchor/Cona/Havells/Legrand/C&S/L&T

6	Supply and fixing of Angle holder of approved make as advice by EIC, including conveyance, labour, T&P, etc. the existing manpower will be utilized for fixing of the materials as per direction of EIC.	6 Amp, ISI Marked	Anchor/Cona/Havells/Legrand/C&S/L&T
7	Supply and fixing of CFL, 20 watt of approved make as advice by EIC, including conveyance, labour, T&P, etc. the existing manpower will be utilized for fixing of the materials as per direction of EIC.	20 Watt, 6500K, 1120 lumen, B22/E27	Philips/Bajaj/C&S/Surya/Havells/Wipro
8	Supply and fixing of CFL cross pin type 18 watt of approved make as advice by EIC, including conveyance, labour, T&P, etc. the existing manpower will be utilized for fixing of the materials as per direction of EIC.	18 Watt, 6500K, 1120 lumen, 2Pin-G24 D2	Philips/Bajaj/C&S/Surya/Havells/Wipro
9	Supply and fixing of CFL 4 pin Type 36 watt of approved make as advice by EIC, including conveyance, labour, T&P, etc. the existing manpower will be utilized for fixing of the materials as per direction of EIC.	36 Watt, 6500K, 2900 lumen, 4Pin-G11	Philips/Bajaj/C&S/Surya/Havells/Wipro
10	Supply and fixing of Tube light 40/36 Watt of approved make as advice by EIC, including conveyance, labour, T&P, etc. the existing manpower will be utilized for fixing of the materials as per direction of EIC.	40 Watt, T12 Tube	Philips/Bajaj/C&S/Surya/Havells/Wipro
11	Supply and fixing of Tube light 18/20 Watt of approved make as advice by EIC, including conveyance, labour, T&P, etc. the existing manpower will be utilized for fixing of the materials as per direction of EIC.	18/20 Watt, T8 Tube	Philips/Bajaj/C&S/Surya/Havells/Wipro
12	Supply and fixing of Tube light 28 watt t-5 of approved make as advice by EIC, including conveyance, labour, T&P, etc. the existing manpower will be utilized for fixing of the materials as per direction of EIC.	28 Watt, T5 Tube	Philips/Bajaj/C&S/Surya/Havells/Wipro
13	Supply and fixing of LED Down Light 12 Watt of approved make as advice by EIC, including conveyance, labour, T&P, etc. the existing manpower will be utilized for fixing of the materials as per direction of EIC.	LED down light fitting 12 Watt	Philips/Bajaj/C&S/Surya/Havells/Wipro
14	Supply and fixing of LED Down light 5 Watt of approved make as advice by EIC, including conveyance, labour, T&P, etc. the existing manpower will be utilized for fixing of the materials as per direction of EIC.	LED Down light fitting 5 Watt	Philips/Bajaj/C&S/Surya/Havells/Wipro
15	Supply and fixing of Ballast 36/40 watt of approved make as advice by EIC, including conveyance, labour, T&P, etc. the existing manpower will be utilized for fixing of the materials as per direction of EIC.	36/40 Watt Ballast, copper/Electronic type	Philips/Bajaj/C&S/Surya/Havells/Wipro
16	Supply and fixing of Tube light starter of approved make as advice by EIC, including conveyance, labour, T&P, etc. the existing manpower will be utilized for fixing of the materials as per direction of EIC.	230/240Volt, universal, for FTL/ CFL	Philips/Bajaj/C&S/Surya/Havells/Wipro
17	Supply and fixing of 3pin Top 5 Amp of approved make as advice by EIC, including conveyance, labour, T&P, etc. the existing manpower will be utilized for fixing of the materials as per direction of EIC.	3 pin, 5 Amp, ISI marked	Anchor/Cona/Havells/Legrand/C&S/L&T
18	Supply and fixing of 3 pin Top 15 Amp of approved make as advice by EIC, including conveyance, labour, T&P, etc. the existing manpower will be utilized for fixing of the materials as per direction of EIC.	3 pin, 16 Amp, ISI marked	Anchor/Cona/Havells/Legrand/C&S/L&T
19	Supply and fixing of Ceiling rose of approved make as advice by EIC, including conveyance, labour, T&P, etc. the existing manpower will be utilized for fixing of the materials as per direction of EIC.	6 Amp, ISI Marked	Anchor/Cona/Havells/Legrand/C&S/L&T
20	Supply and fixing of Modular Fan Regulator(1 or 2 Mod) of approved make as advice by EIC, including conveyance, labour, T&P, etc. the existing manpower will be utilized for fixing of the materials as per direction of EIC.	5 step regulator, modular type, 1 & 2 mod	Anchor/Cona/Havells/Legrand/C&S/L&T
21	Supply and fixing of PVC insulation Tape of approved make as advice by EIC, including conveyance, labour, T&P, etc. the existing manpower will be utilized for fixing of the materials as per direction of EIC.	Colour- RED/BLACK/GREEN/YELLOW/BLUE, ISI Marked, 7mtr length, 18 mm width, 0.125 mm thick	Cona/Anchor/Steelgrip

22	Supply and fixing of ELCB with MCB 40 Amp 30 mA with MCB 4pole of approved make as advice by EIC, including conveyance, labour, T&P, etc. the existing manpower will be utilized for fixing of the materials as per direction of EIC.	40 Amp, 30 mA, 4pole, 440 volt, ELCB	Anchor/Cona/Havells/Legrand/C&S/L&T
23	Supply and fixing of MCB 10 Amp, Single Pole, C-series of approved make as advice by EIC, including conveyance, labour, T&P, etc. the existing manpower will be utilized for fixing of the materials as per direction of EIC.	10 Single Pole MBC, C-series, 230/240 Volt	Anchor/Cona/Havells/Legrand/C&S/L&T
24	Supply and fixing of MCB 16 Amp, Single Pole, C-series of approved make as advice by EIC, including conveyance, labour, T&P, etc. the existing manpower will be utilized for fixing of the materials as per direction of EIC.	16 Single Pole MBC, C-series, 230/240 Volt	Anchor/Cona/Havells/Legrand/C&S/L&T
25	Supply and fixing of MCB 20 Amp, Single Pole, C-series of approved make as advice by EIC, including conveyance, labour, T&P, etc. the existing manpower will be utilized for fixing of the materials as per direction of EIC.	20 Single Pole MBC, C-series, 230/240 Volt	Anchor/Cona/Havells/Legrand/C&S/L&T
26	Supply and fixing of MCB 32 Amp, Single Pole, C-series of approved make as advice by EIC, including conveyance, labour, T&P, etc. the existing manpower will be utilized for fixing of the materials as per direction of EIC.	32 Single Pole MBC, C-series, 230/240 Volt	Anchor/Cona/Havells/Legrand/C&S/L&T
27	Supply and fixing of Capacitor 2.5 mfd, 440V (oil type) of approved make as advice by EIC, including conveyance, labour, T&P, etc. the existing manpower will be utilized for fixing of the materials as per direction of EIC.	Oil filled type, 2.5 Mfd, 440Volt	Universal/Havells
28	Supply and fixing of including Calling Bell (Ding Dong type) of approved make as advice by EIC, including conveyance, labour, T&P, etc. the existing manpower will be utilized for fixing of the materials as per direction of EIC.	Calling Bell, Ding dong type	Anchor/Cona/Havells/Legrand/C&S/L&T
29	Supply and fixing of Modular Bell Push Switch of approved make as advice by EIC, including conveyance, labour, T&P, etc. the existing manpower will be utilized for fixing of the materials as per direction of EIC.	5/6/10 Amp Modular type, ISI marked	Anchor/Cona/Havells/Legrand/C&S/L&T
30	Supply and fixing of Copper insulated wire 1.0 sqmm of approved make as advice by EIC, including conveyance, labour, T&P, etc. the existing manpower will be utilized for fixing of the materials as per direction of EIC.	multistrand, copper, FRLS	Finolex/Havells/KEI/Polycab/Rihno
31	Supply and fixing of Copper insulated wire 1.5 sqmm of approved make as advice by EIC, including conveyance, labour, T&P, etc. the existing manpower will be utilized for fixing of the materials as per direction of EIC.	multistrand, copper, FRLS	Finolex/Havells/KEI/Polycab/Rihno
32	Supply and fixing of Copper insulated wire 2.5 sqmm of approved make as advice by EIC, including conveyance, labour, T&P, etc. the existing manpower will be utilized for fixing of the materials as per direction of EIC.	multistrand, copper, FRLS	Finolex/Havells/KEI/Polycab/Rihno
33	Supply and fixing of Copper insulated wire 4.0 sqmm of approved make as advice by EIC, including conveyance, labour, T&P, etc. the existing manpower will be utilized for fixing of the materials as per direction of EIC.	multistrand, copper, FRLS	Finolex/Havells/KEI/Polycab/Rihno
34	Supply and fixing of Copper insulated wire 6.0 sqmm of approved make as advice by EIC, including conveyance, labour, T&P, etc. the existing manpower will be utilized for fixing of the materials as per direction of EIC.	multistrand, copper, FRLS	Finolex/Havells/KEI/Polycab/Rihno
35	Supply and fixing of Post top light fitting for Park of approved make as advice by EIC, including conveyance, labour, T&P, etc. the existing manpower will be utilized for fixing of the materials as per direction of EIC.	Suitable for 1X 15/20 Watt CFL B-22/E-27 Base	Philips/Bajaj/C&S/Surya/Havells/Wipro/CG
36	Supply and fixing of Bollard Light of approved make as advice by EIC, including conveyance, labour, T&P, etc. the existing manpower will be utilized for fixing of the materials as per direction of EIC.	Suitable for 1X 15/20 Watt CFL B-22/E-27 Base	Philips/Bajaj/C&S/Surya/Havells/Wipro/CG
37	Supply and fixing of Exhaust Fan of approved make as advice by EIC, including conveyance, labour, T&P, etc. the existing manpower will be utilized for fixing of the materials as per direction of EIC.	Exhaust Fan, 200 mm, White colour	Philips/Bajaj/C&S/Surya/Havells/ CG

13. Any spare/ consumables which does not meet the make/specification should be approved by the EIC prior to its procurement to site for installation