

TECHNICAL SPECIFICATION

Annual maintenance contract for Electrical maintenance jobs at ITPS.

1. The contractor must engage one no. Of Highly skilled “B” lineman & one no. Of skilled “C” class lineman/ “B” class wireman for each shift operation (A/B/C) through the year.
2. The contractor must engage one no. Of highly skilled electrician lineman-‘A’, one no. Of skilled electrician lineman-‘B’, one no. Of skilled electrician lineman-‘C’ and seven nos. Of semiskilled manpower on daily basis for general shift operation.
3. The contractor must engage one Electrical Engineer having Degree in electrical engineering with 7 Years inline Experience in day to day maintenance of Electrical system in a Big Township and having good knowledge in electrical activity like estimation, erection, operation and maintenance of LT & HT electrical power system, basic knowledge in SAP System and office management work.
4. The contractor must engage one Office Assistance for office management, complaint monitoring, documentation & record keeping and having Graduation & computer skills and inline experience of 4 years for similar jobs.
5. The contractor must engage one no. Of super skilled Air Conditioner mechanic with 05 years of experience having good knowledge of window, split, cassette and ductable air conditioner up to 17-ton capacity
6. As and when required, the contractor must give required manpower to cater the emergency and unforeseen jobs round the clock throughout the year.
7. All materials required for the job will be supplied by the agency as per BOQ.
8. All materials to be supply must be the make and model order by the EIC as per site requirement and also having ISI marked.
9. 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.
10. 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	5	Certified by STL BBSR / Authorised agency
2	Digital Megger (upto 5 KV-1no & 0.5 KV -1no)	Nos	2	Certified by STL BBSR / Authorised agency
3	Digital Earth tester	Nos	1	Certified by STL BBSR / Authorised agency
4	Discharge Rod	Nos	3	Certified by STL BBSR / Authorised agency
5	FRP Ladder (40 feet Height)	Nos	1	ISI Marked and Test certified by OPGC
6	FRP Ladder – A’type (20 feet Height)	Nos	1	ISI Marked and Test certified by OPGC
7	FRP Ladder – A’type (8 feet Height)	Nos	2	ISI Marked and Test certified by OPGC
8	FRP Ladder (8 feet Height)	Nos	2	ISI Marked and Test certified by OPGC
9	FRP Step Stand ladder with Railing (3 feet Height)	Nos	2	ISI Marked and Test certified by OPGC

10	Tongue Tester upto 2000Amp	Nos	2	Certified by STL BBSR / Authorised agency
11	Insulation plier	Nos	6	Tapria/ equivalent make
12	Insulation Screw Driver 8"	Nos	6	Tapria/ equivalent make
13	Insulation Screw Driver 10"	Nos	6	Tapria/ equivalent make
14	Good quality tools bag	Nos	4	Tapria/ equivalent make
15	Ring spanner set(Jalani)	Set	2	Tapria/ equivalent make
16	Disc spanner Set (Taparia)	Set	2	Tapria/ equivalent make
17	Box spanner set (Taparia)	Set	1	Tapria/ equivalent make
18	Allen key set (Taparia)	Set	2	Tapria/ equivalent make
19	Crimping tools (1 to 25 sqmm)	Nos	2	Tapria/ equivalent make
20	Crimping tools (25 to 300 sqmm)	Nos	1	Tapria/ equivalent make
21	Hook chuke 5 ton capacity	Nos	1	Certified by Authorised agency
22	Good quality rope (Small-8mm)	Mtr	30	
23	Good quality rope (Big-16mm)	Mtr	60	
24	Slidge wrench 8"	Nos	2	Tapria/ equivalent make
25	Slidge wrench 16"	Nos	2	Tapria/ equivalent make
26	Portable drill machine	Nos	2	Reputed make
27	Good quality torch light	Nos	3	Reputed make
28	Full body harness	Nos	2	OPGC Approved
29	Umbrella/ Rain wear	Nos	3	Reputed make

11. 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.
12. Valid license of the contractor & Electricians.
 - A) Contractor—HT License
 - B) Highly skilled Electrician (General shift operation) —‘A’ Lineman, Having minimum of 10 years of inline experience.
 - C) Highly skilled electrician (Shift operation) – ‘B’ Lineman, Having minimum of 6 years of inline experience.
 - D) Skilled Electrician (Shift operation) -- ‘C’ Lineman/ ‘B’ wiremen, having minimum of 3 years of inline experience.
 - E) Semi-skilled workmen— having 2 years inline experience.
 - F) Super skilled AC mechanic — having 5 years in line experience
 - G) Office Assistance – Graduation & computer skills and inline experience of 4 years.
 - H) Electrical Engineer – Degree in Electrical Engineering and having minimum 7 years inline experience.
 - I) Deployment of all work person will be as per the selection and direction of EIC.
13. The contractor must issue minimum PPE’s (like-Helmet, Goggle, dust mask, shoe & hand gloves) & uniform to all staff & maintain PPE’s issue register, make must be approved by OPGC. The cost of which enclosed in the item rate of BOQ.
14. The contractor should have minimum 03 years in line experience for the work to maintenance in a big township.

15. Specification and make of materials

Sl. No	Detail Description	Specification/ Model	Make
1	Supply, Commissioning and testing of Flush Type switch 6amp by existing manpower including all cost of material, taxes, transportation, etc as per directed by EIC	5/6 Ampere, Flush Type, ISI Marked	Anchor/Cona/Havells/L egrand/C&S/L&T
2	Supply, Commissioning and testing of Flush Type switch 16amp by existing manpower including all cost of material, taxes, transportation, etc as per directed by EIC	16/20 AMP Flush Type, ISI Marked	Anchor/Cona/Havells/L egrand/C&S/L&T
3	Supply, Commissioning and testing of Modular Switch 6 amp by existing manpower including all cost of material, taxes, transportation, etc as per directed by EIC	5/6/10 Amp Modular type, ISI marked	Anchor/Cona/Havells/L egrand/C&S/L&T
4	Supply, Commissioning and testing of Modular Switch 16/20 amp by existing manpower including all cost of material, taxes, transportation, etc as per directed by EIC	16/20/25 Amp Modular type, ISI Marked	Anchor/Cona/Havells/L egrand/C&S/L&T
5	Supply, Commissioning and testing of Modular two-way switch 6 amp by existing manpower including all cost of material, taxes, transportation, etc as per directed by EIC	5/6/10 Amp Modular type, ISI marked	Anchor/Cona/Havells/L egrand/C&S/L&T
6	Supply, Commissioning and testing of Flush Type Socket 5pin 6 amp by existing manpower including all cost of material, taxes, transportation, etc as per directed by EIC	5/6 Ampere, Flush Type, ISI Marked	Anchor/Cona/Havells/L egrand/C&S/L&T
7	Supply, Commissioning and testing of Flush Type Socket 5pin 16 amp by existing manpower including all cost of material, taxes, transportation, etc as per directed by EIC	16/20 AMP Flush Type, ISI Marked	Anchor/Cona/Havells/L egrand/C&S/L&T
8	Supply, Commissioning and testing of Modular Socket 5pin 6amp by existing manpower including all cost of material, taxes, transportation, etc as per directed by EIC	5/6/10 Amp Modular type, ISI marked	Anchor/Cona/Havells/L egrand/C&S/L&T
9	Supply, Commissioning and testing of Modular socket 5pin 16/20amp by existing manpower including all cost of material, taxes, transportation, etc as per directed by EIC	16/20/25 Amp Modular type, ISI Marked	Anchor/Cona/Havells/L egrand/C&S/L&T
10	Supply, Commissioning and testing of Angle holder by existing manpower including all cost of material, taxes, transportation, etc as per directed by EIC	6 Amp, ISI Marked	Anchor/Cona/Havells/L egrand/C&S/L&T
11	Supply, Commissioning and testing of Batten Holder by existing manpower including all cost of material, taxes, transportation, etc as per directed by EIC	6 Amp, ISI Marked	Anchor/Cona/Havells/L egrand/C&S/L&T
12	Supply, Commissioning and testing of Bulk Head Fitting by existing manpower including all cost of material, taxes, transportation, etc as per directed by EIC	Aluminium/Plastic housing & frosted glass for 100W GLS, 15/18 Watt CFL	Philips/Bajaj/C&S/Surya/Havells/Wipro
13	Supply, Commissioning and testing of CFL, 20 watts by existing manpower including all cost of material, taxes, transportation, etc as per directed by EIC	20 Watt, 6500K, 1120 lumen, B22/E27	Philips/Bajaj/C&S/Surya/Havells/Wipro
14	Supply, Commissioning and testing of CFL cross pin type 18 watt by existing manpower including all cost of material, taxes, transportation, etc as per directed by EIC	18 Watt, 6500K, 1120 lumen, 2Pin-G24 D2	Philips/Bajaj/C&S/Surya/Havells/Wipro
15	Supply, Commissioning and testing of CFL 4 pin Type 36 watt by existing manpower including all cost of material, taxes, transportation, etc as per directed by EIC	36 Watt, 6500K, 2900 lumen, 4Pin-G11	Philips/Bajaj/C&S/Surya/Havells/Wipro

16	Supply, Commissioning and testing of Tube light 40 Watt by existing manpower including all cost of material, taxes, transportation, etc as per directed by EIC	40 Watt, T12 Tube	Philips/Bajaj/C&S/Surya/Havells/Wipro
17	Supply, Commissioning and testing of Tube light 18/20 Watt by existing manpower including all cost of material, taxes, transportation, etc as per directed by EIC	18/20 Watt, T8 Tube	Philips/Bajaj/C&S/Surya/Havells/Wipro
18	Supply, Commissioning and testing of Tube light 28 watts t-5 by existing manpower including all cost of material, taxes, transportation, etc as per directed by EIC	28 Watt, T5 Tube	Philips/Bajaj/C&S/Surya/Havells/Wipro
19	Supply, Commissioning and testing of including Ballast 36/40 watt by existing manpower including all cost of material, taxes, transportation, etc as per directed by EIC	36/40 Watt Ballast, copper/Electronic type	Philips/Bajaj/C&S/Surya/Havells/Wipro
20	Supply, Commissioning and testing of including Ballast 28 watt by existing manpower including all cost of material, taxes, transportation, etc as per directed by EIC	28 Watt Ballast, copper/Electronic type	Philips/Bajaj/C&S/Surya/Havells/Wipro
21	Supply, Commissioning and testing of including Ballast 20 watt by existing manpower including all cost of material, taxes, transportation, etc as per directed by EIC	20 Watt Ballast, copper/Electronic type	Philips/Bajaj/C&S/Surya/Havells/Wipro
22	Supply, Commissioning and testing of Tube light starter by existing manpower including all cost of material, taxes, transportation, etc as per directed by EIC	230/240Volt, universal, for FTL/ CFL	Philips/Bajaj/C&S/Surya/Havells/Wipro
23	Supply, Commissioning and testing of MH DE Lamp 150 Watt by existing manpower including all cost of material, taxes, transportation, etc as per directed by EIC	150 Watt LAMP, Metal Halide, Double ended type	Philips/Bajaj/C&S/Surya/Havells/Wipro
24	Supply, Commissioning and testing of MH Lamp 250 watt by existing manpower including all cost of material, taxes, transportation, etc as per directed by EIC	250 Watt lamp, Metal Halide, Single ended, tubular type	Philips/Bajaj/C&S/Surya/Havells/Wipro
25	Supply, Commissioning and testing of MH Lamp 400 watt by existing manpower including all cost of material, taxes, transportation, etc as per directed by EIC	400 Watt lamp, Metal Halide, Single ended, tubular type	Philips/Bajaj/C&S/Surya/Havells/Wipro
26	Supply, Commissioning and testing of MH Ballast 150 Watt by existing manpower including all cost of material, taxes, transportation, etc as per directed by EIC	150 Watt MH, copper ballast	Philips/Bajaj/C&S/Surya/Havells/Wipro
27	Supply, Commissioning and testing of MH Ballast 250 Watt by existing manpower including all cost of material, taxes, transportation, etc as per directed by EIC	250 Watt MH, copper ballast	Philips/Bajaj/C&S/Surya/Havells/Wipro
28	Supply, Commissioning and testing of MH Ballast 400 Watt by existing manpower including all cost of material, taxes, transportation, etc as per directed by EIC	400 Watt MH, copper ballast	Philips/Bajaj/C&S/Surya/Havells/Wipro
29	Supply, Commissioning and testing of Ignitor (70 to 400 Watt) by existing manpower including all cost of material, taxes, transportation, etc as per directed by EIC	70-400 Watt HSPV/MH lamp	Philips/Bajaj/C&S/Surya/Havells/Wipro
30	Supply, Commissioning and testing of 3pin Top 5 Amp by existing manpower including all cost of material, taxes, transportation, etc as per directed by EIC	3 pin, 5 Amp, ISI marked	Anchor/Cona/Havells/Legrand/C&S/L&T
31	Supply, Commissioning and testing of 3 pin Top 15 Amp by existing manpower including all cost of material, taxes, transportation, etc as per directed by EIC	3 pin, 16 Amp, ISI marked	Anchor/Cona/Havells/Legrand/C&S/L&T
32	Supply, Commissioning and testing of Ceiling rose by existing manpower including all cost of material, taxes, transportation, etc as per directed by EIC	6 Amp, ISI Marked	Anchor/Cona/Havells/Legrand/C&S/L&T
33	Supply, Commissioning and testing of Step Regulator for Fan (flush type 2mod) by existing manpower including all cost of material, taxes, transportation, etc as per directed by EIC	5 step regulator, flush type, 2 mod	Anchor/Cona/Havells/Legrand/C&S/L&T

34	Supply, Commissioning and testing of Modular Fan Regulator (1 or 2 Mod) by existing manpower including all cost of material, taxes, transportation, etc as per directed by EIC	5 step regulator, modular type, 1 & 2 mod	Anchor/Cona/Havells/L egrand/C&S/L&T
35	Supply, Commissioning and testing of PVC insulation Tape by existing manpower including all cost of material, taxes, transportation, etc as per directed by EIC	Colour- RED/BLACK/GREEN/YELLOW/BLUE, ISI Marked, 7mtr length, 18 mm width, 0.125 mm thick	Cona/Anchor/Steelgrip
36	Supply, Commissioning and testing of 3M Cable Tape HT & LT by existing manpower including all cost of material, taxes, transportation, etc as per directed by EIC	HT/LT electrical insulation tape, size- 19mmX9.15mmX0.75mm , insulating up to 69KV	3M
37	Supply, Commissioning and testing of PVC Board with Cover 4X4 by existing manpower including all cost of material, taxes, transportation, etc as per directed by EIC	ISI marked	Precision/Pressfit/Surya
38	Supply, Commissioning and testing of PVC Board with Cover 4X6 by existing manpower including all cost of material, taxes, transportation, etc as per directed by EIC	ISI marked	Precision/Pressfit/Surya
39	Supply, Commissioning and testing of PVC Board with Cover 6X8 by existing manpower including all cost of material, taxes, transportation, etc as per directed by EIC	ISI marked	Precision/Pressfit/Surya
40	Supply, Commissioning and testing of PVC Board with Cover 8X10 by existing manpower including all cost of material, taxes, transportation, etc as per directed by EIC	ISI marked	Precision/Pressfit/Surya
41	Supply, Commissioning and testing of PVC Board with Cover 10X12 by existing manpower including all cost of material, taxes, transportation, etc as per directed by EIC	ISI marked	Precision/Pressfit/Surya
42	Supply, Commissioning and testing of PVC Pipe 20mm medium class by existing manpower including all cost of material, taxes, transportation, etc as per directed by EIC	ISI marked	Precision/Pressfit/Surya
43	Supply, Commissioning and testing of PVC Pipe 25mm medium class by existing manpower including all cost of material, taxes, transportation, etc as per directed by EIC	ISI marked	Precision/Pressfit/Surya
44	Supply, Commissioning and testing of PVC Pipe 20mm medium class by existing manpower including all cost of material, taxes, transportation, etc as per directed by EIC	ISI marked	Precision/Pressfit/Surya
45	Supply, Commissioning and testing of PVC Bend 25 mm medium class by existing manpower including all cost of material, taxes, transportation, etc as per directed by EIC	ISI marked	Precision/Pressfit/Surya
46	Supply, Commissioning and testing of Casing caping 22 mm by existing manpower including all cost of material, taxes, transportation, etc as per directed by EIC	ISI marked	Precision/Pressfit/Surya
47	Supply, Commissioning and testing of Casing caping 25 mm by existing manpower including all cost of material, taxes, transportation, etc as per directed by EIC	ISI marked	Precision/Pressfit/Surya
48	Supply, Commissioning and testing of RCCB 2 Pole, 2 mod, 40 Amp, 30mAmp by existing manpower including all cost of material, taxes, transportation, etc as per directed by EIC	2 pole, 2 mod, 40 Amp, 30 mili amp, 240 Volt, RCCB	Anchor/Cona/Havells/L egrand/C&S/L&T
49	Supply, Commissioning and testing of RCCB 4 Pole, 4 mod, 40 Amp, 30mAmp by existing manpower including all cost of material, taxes, transportation, etc as per directed by EIC	4 pole, 4 mod, 40 Amp, 30 mili amp, 440 Volt, RCCB	Anchor/Cona/Havells/L egrand/C&S/L&T
50	Supply, Commissioning and testing of MCB 10 Amp, Single Pole, C-series by existing manpower including all cost of material, taxes, transportation, etc as per directed by EIC	10 Single Pole MBC, C-series, 230/240 Volt	Anchor/Cona/Havells/L egrand/C&S/L&T

51	Supply, Commissioning and testing of MCB 16 Amp, Single Pole, C-series by existing manpower including all cost of material, taxes, transportation, etc as per directed by EIC	16 Single Pole MBC, C-series, 230/240 Volt	Anchor/Cona/Havells/L egrand/C&S/L&T
52	Supply, Commissioning and testing of MCB 20 Amp, Single Pole, C-series by existing manpower including all cost of material, taxes, transportation, etc as per directed by EIC	20 Single Pole MBC, C-series, 230/240 Volt	Anchor/Cona/Havells/L egrand/C&S/L&T
53	Supply, Commissioning and testing of MCB 32 Amp, Single Pole, C-series by existing manpower including all cost of material, taxes, transportation, etc as per directed by EIC	32 Single Pole MBC, C-series, 230/240 Volt	Anchor/Cona/Havells/L egrand/C&S/L&T
54	Supply, Commissioning and testing of ELCB with MCB 40 Amp 30 mA with MCB 4pole by existing manpower including all cost of material, taxes, transportation, etc as per directed by EIC	40 Amp, 30 mA, 4pole, 440 volt, ELCB	Anchor/Cona/Havells/L egrand/C&S/L&T
55	Supply, Commissioning and testing of Capacitor 2.5 mfd, 440V (oil type) by existing manpower including all cost of material, taxes, transportation, etc as per directed by EIC	Oil filled type, 2.5 Mfd, 440Volt	Universal/Havells
56	Supply, Commissioning and testing of including Calling Bell (Ding Dong type) by existing manpower including all cost of material, taxes, transportation, etc as per directed by EIC		Anchor/Cona/Havells/L egrand/C&S/L&T
57	Supply, Commissioning and testing of Modular Bell Push Switch by existing manpower including all cost of material, taxes, transportation, etc as per directed by EIC	5/6/10 Amp Modular type, ISI marked	Anchor/Cona/Havells/L egrand/C&S/L&T
58	Supply, Commissioning and testing of Copper insulated wire 0.5 sqmm by existing manpower including all cost of material, taxes, transportation, etc as per directed by EIC	multistrand, copper, FRLS	Finolex/Havells/KEI/Pol ycab/Rihno
59	Supply, Commissioning and testing of Copper insulated wire 1.0 sqmm by existing manpower including all cost of material, taxes, transportation, etc as per directed by EIC	multistrand, copper, FRLS	Finolex/Havells/KEI/Pol ycab/Rihno
60	Supply, Commissioning and testing of Copper insulated wire 1.5 sqmm by existing manpower including all cost of material, taxes, transportation, etc as per directed by EIC	multistrand, copper, FRLS	Finolex/Havells/KEI/Pol ycab/Rihno
61	Supply, Commissioning and testing of Copper insulated wire 2.5 sqmm by existing manpower including all cost of material, taxes, transportation, etc as per directed by EIC	multistrand, copper, FRLS	Finolex/Havells/KEI/Pol ycab/Rihno
62	Supply, Commissioning and testing of Copper insulated wire 4.0 sqmm by existing manpower including all cost of material, taxes, transportation, etc as per directed by EIC	multistrand, copper, FRLS	Finolex/Havells/KEI/Pol ycab/Rihno
63	Supply, Commissioning and testing of Copper insulated wire 6.0 sqmm by existing manpower including all cost of material, taxes, transportation, etc as per directed by EIC	multistrand, copper, FRLS	Finolex/Havells/KEI/Pol ycab/Rihno
65	Supply, Commissioning and testing of DP Main Switch 32Amp by existing manpower including all cost of material, taxes, transportation, etc as per directed by EIC	32 Amp, Metal Enclosure type, 230 volt	Anchor/Cona/Havells/L egrand/C&S/L&T
66	Supply, Commissioning and testing of 45/60 Watt LED Electronic driver by existing manpower including all cost of material, taxes, transportation, etc as per directed by EIC	Electronic driver suitable for 45 watt or 60 watt LED Street light with surge protector	Philips/Bajaj/C&S/Surya/Havells/Wipro/CG
67	Supply, Commissioning and testing of 160-Watt LED Electronic driver by existing manpower including all cost of material, taxes, transportation, etc as per directed by EIC	Electronic driver suitable for 160 watt LED Street light/ LED Flood light with surge protector	Philips/Bajaj/C&S/Surya/Havells/Wipro/CG
68	Supply, Commissioning and testing of Contactor 40A, 415V 3ph by existing manpower including all cost of material, taxes, transportation, etc as per directed by EIC	40 Amp, 415 Volt, 3pole, 3 phase, coil voltage-440/220 V AC	Anchor/Cona/Havells/L egrand/C&S/L&T

69	Supply, Commissioning and testing of Contactor 70A, 415V by existing manpower including all cost of material, taxes, transportation, etc as per directed by EIC	70 Amp, 415 Volt, 3pole, 3 phase, coil voltage-440/220 V AC	Anchor/Cona/Havells/L egrand/C&S/L&T
70	Supply, Commissioning and testing of Overload relay for 50 HP Motor Starter by existing manpower including all cost of material, taxes, transportation, etc as per directed by EIC	Overhead relay, 50 HP Motor	Anchor/Cona/Havells/L egrand/C&S/L&T
71	Supply, Commissioning and testing of Post top light fitting for Park by existing manpower including all cost of material, taxes, transportation, etc as per directed by EIC	Suitable for 1X 15/20 Watt CFL B-22/E-27 Base	Philips/Bajaj/C&S/Surya/Havells/Wipro/CG
72	Supply, Commissioning and testing of Bollard Light by existing manpower including all cost of material, taxes, transportation, etc as per directed by EIC	Suitable for 1X 15/20 Watt CFL B-22/E-27 Base	Philips/Bajaj/C&S/Surya/Havells/Wipro/CG
73	Supply, Commissioning and testing of Cutout 63 Amp by existing manpower including all cost of material, taxes, transportation, etc as per directed by EIC	Kit Kat Fuse, Porcelain Fuse carrier & Base,63 Amp,415 Volt	Cona
74	Supply, Commissioning and testing of Timer for 50 HP Motor Starter by existing manpower including all cost of material, taxes, transportation, etc as per directed by EIC	timer for 50 HP, Auto Star delta Starter	Philips/Bajaj/C&S/Surya/Havells/Wipro/CG
75	Supply, Commissioning and testing of 6 KW, Light chaser for fountain by existing manpower including all cost of material, taxes, transportation, etc as per directed by EIC	6 KW, 230 Volt, 6-channel, programable, running light chaser.	Philips/Bajaj/C&S/Surya/Havells/Wipro/CG
76	Supply, Commissioning and testing of Bush cutter machine with all accessories & spares Make- Sprayman, Model- B-155 four stroke, Power-2 HP, Displacement(CC):50, Tank: 800ml, Start mode: manual, Drive Mode: WORM gear by existing manpower including all cost of material, taxes, transportation, etc as per directed by EIC	2HP, Bush cutter Machine Model- B-155, four strokes. Tank-800ml, Manual start mode.	Spraymen/Equivalent

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