



पनवेल महानगरपालिका

ता. पनवेल जि. रायगड



कार्यालय- आयुक्त मुख्यालय, २ रा मजला, देवाळे तलावाच्या
समोर, गोखले हॉलच्या शेजारी, पनवेल- ४१०२०६
दुरध्वनी क्र- ०२२-२७४५८०४०/४१/४२
Email Id: panvelcorporation@gmail.com

जा.क्र. पमपा/विद्युत/१९२६/प्र.क्र.०८/९३/२०२६

दिनांक- ०५/०२/२०२६

जाहिर निविदा दरपत्रक सुचना

मा. आयुक्त, पनवेल महानगरपालिका यांच्या वतीने विद्युत विभागातील विविध कामांचे अंदाजपत्रक तयार करण्याकरिता संबंधित Manufacturer/Dealer/Contractor कडून विद्युत विषयक बाबींचे दर मागविण्यात येत आहे.

तपशिल

अ.क्र.	तपशिल	परिमाण	युनिट
1.	SITC of high quality long through multi colour with RGBW 4in1 LED, DMX-RDM based wash light, Protection Rating: IP66, complying to BIS standard "IS 10322 (Part 5/Sec 1): 2012" and having CE certification against standard "Low Voltage Directive & Protective Equipment - EN 60598 (Part 2/Sec 1):2020", and "Electromagnetic Compatibility Directive - EN 61547:2020", Mounting Structure: Adjustable surface mount yoke arrangements for fixing the lights having the rotation degrees embossed in the die cast. Power consumption: 50W, CCT: RGBW (6000K -7000K) (as per the design approval), Optics: PMMA/PC Lens with separate holder, Beam Angle: 25°/45°/60°(as per the design approval), Luminous Efficacy must be Min : 55Lm/W, Body: Die casted/ extruded aluminium with embossed manufacturer logo, Separate compartment for keeping the decoder/driver in the housing which can be easily removable for service without disturbing the LEDs/Optics, Hot spot and light distribution: Optics Designed to minimize hot spots & fringing in colour mixing applications. Luminaire shall be capable of producing dynamic colour-changing light with 16.7million colours and it shall support control via DMX, Ethernet, and Remote Device Management (RDM) for enhanced configuration and management. The luminaire should offer channel options of 8/ 4 channels by using a Programming kit, with these channels providing control for effects and colour transitions like 4 colour 4 channels, Master, Jump, strobe, Macro function and speed in the rest 4 channels as per the requirement. Additionally, it shall feature auto colour synchronization functionality, allowing seamless operation if there is a loss of DMX signal/ with loop in loop out. Power Input: DC 24V External Group Driver, Surge Protection: Inbuilt surge protection in the driver 2KV-4KV (Additional if required will be added as per the requirement), Toughened transparent glass having the IK protection: IK08 or higher, Painting: Chemical 3/7 tank processed treatment before the powder coat	1	Each

	<p>black/Grey/approved colour coat. Fixture will be suitable to operate in a temperature range of -10°C to +60°C, the light fixtures are having IP68 air vent made of stainless steel which helps to desiccate & prevent from forming moisture inside the light fixture at worst environmental condition. LED life should be at least 50,000 burning hours at L70 at 50 degrees centigrade LM80 to be provided. Luminaire is inclusive of Integral male/female waterproof connectors with structures in pre wired conditions as per IS standard. PCB thickness must be 1.6mm, 35-micron Copper, 2W TC with Black or White masking, Copper /OSP finish. LM79, IK08, HV & IP66 Certificates from NABL Accredited laboratory. LED Makes should be CREE, Lumileds, Osram, Seoul, Nichia or equivalent with LM80 report from an international testing Laboratory. Power & DMX Loop In/Out along with moulded connector having the length >300mm. Certifications: CE, RoHS, BIS.</p>		
2.	<p>SITC of high quality long through multi colour with RGBW 4in1 LED, DMX-RDM based wash light, Protection Rating: IP66, complying to BIS standard "IS 10322 (Part 5/Sec 1): 2012" and having CE certification against standard "Low Voltage Directive & Protective Equipment - EN 60598 (Part 2/Sec 1):2020", and "Electromagnetic Compatibility Directive - EN 61547:2020", Mounting Structure: Adjustable surface mount yoke arrangements for fixing the lights having the rotation degrees embossed in the die cast. Power consumption: 100W, CCT: RGBW (6000K -7000K) (as per the design approval), Optics: PMMA/PC Lens with separate holder, Beam Angle: 25°/45°/60°(as per the design approval), Luminous Efficacy must be Min : 55Lm/W, Body: Die casted/ extruded aluminium with embossed manufacturer logo, Separate compartment for keeping the decoder/driver in the housing which can be easily removable for service without disturbing the LEDs/Optics, Hot spot and light distribution: Optics Designed to minimize hot spots & fringing in colour mixing applications. Luminaire shall be capable of producing dynamic colour-changing light with 16.7million colours and it shall support control via DMX, Ethernet, and Remote Device Management (RDM) for enhanced configuration and management. The luminaire should offer channel options of 8/ 4 channels by using a Programming kit, with these channels providing control for effects and colour transitions like 4 colour 4 channels, Master, Jump, strobe, Macro function and speed in the rest 4 channels as per the requirement. Additionally, it shall feature auto colour synchronization functionality, allowing seamless operation if there is a loss of DMX signal/ with loop in loop out. Power Input: DC 24V External Group Driver, Surge Protection: Inbuilt surge protection in the driver 2KV-4KV (Additional if required will be added as per the requirement), Toughened transparent glass having the IK protection: IK08 or higher, Painting: Chemical 3/7 tank processed treatment before the powder coat black/Grey/approved colour coat. Fixture will be suitable to operate in a temperature range of -10°C to +60°C, the light fixtures are having IP68 air vent made of stainless steel which helps to desiccate & prevent from forming moisture inside the light fixture at worst environmental condition. LED life should be at least 50,000 burning hours at L70 at 50 degrees centigrade</p>	1	Each

	LM80 to be provided. Luminaire is inclusive of Integral male/female waterproof connectors with structures in pre wired conditions as per IS standard. PCB thickness must be 1.6mm, 35-micron Copper, 2W TC with Black or White masking, Copper /OSP finish. LM79, IK08, HV & IP66 Certificates from NABL Accredited laboratory. LED Makes should be CREE, Lumileds, Osram, Seoul, Nichia or equivalent with LM80 report from as international testing Laboratory. Power & DMX Loop In/Out along with moulded connector having the length >300mm. Certifications: CE, RoHS, BIS.		
3.	SITC of high quality Multi Color Neon Flexible light, Protection Rating : IP65, Mounting Structure : Adjustable wall mount aluminium profile for fixing the lights. Power consumption : 12W, CCT : RGB/RGBW, (as per the design approval) Beam Angle : 120°, Control : DmX512 Channel : 4 CH, Power Input : DC 24V with external driver, Surge Protection : Inbuilt surge protection 2KV-4KV(Additional if required will be added as per the requirement), Fixture will be suitable to operate in a temperature range of 0°C to 50°C , LED life time should be at least 50,000 burning hours at L70 at 25 degree centigrade. Luminaire is inclusive of Integral male/female waterproof connectors with structures in pre wired conditions as per IS standard. LED Makes should be CREE, Lumileds, Osram, Seoul, Epistar, Nichia or equivalent with the engineer or 3rd party testing laboratory approval.	1	Each
4.	SITC of Aluminium Profile for Neon flex	1	Rmt
5.	SITC of high quality long through Multi colour with RGBW 4in1 LED, DMX-RDM based linear wash light, Protection Rating: IP66, complying to BIS standard "IS 10322 (Part 5/Sec 1): 2012" and having CE certification against standard "Low Voltage Directive & Protective Equipment - EN 60598 (Part 2/Sec 1):2020", and "Electromagnetic Compatibility Directive - EN 61547:2020", Mounting Structure: Adjustable surface mount yoke arrangements in the die cast for fixing. Power consumption: 50W, CCT: RGBW (6000K - 7000K) (as per the design approval), Optics: PMMA/PC Lens with holder, Beam Angle: 25°/45°/60°(as per the design approval), Luminous Efficacy must be Min : 55Lm/W, Body: Die casted/ extruded aluminium with embossed manufacturer logo, Separate compartment for keeping the decoder/driver in the housing which can be easily removable for service without disturbing the LEDs/Optics, Hot spot and light distribution: Optics Designed to minimize hot spots & fringing in colour mixing applications. Luminaire shall be capable of producing dynamic colour-changing light with 16.7million colours and it shall support control via DMX, Ethernet, and Remote Device Management (RDM) for enhanced configuration and management. The luminaire should offer channel options of 8/ 4 channels by using a Programming kit, with these channels providing control for effects and colour transitions like 4 colour 4 channels, Master, Jump/ strobe, Micro function and speed. Additionally, it shall feature auto colour synchronization functionality, allowing seamless operation if there is a loss of DMX signal/ with loop in loop out. Power Input: DC 24V External	1	Each

	<p>Group Driver, Surge Protection: Inbuilt surge protection in the driver 2KV-4KV (Additional if required will be added as per the requirement), Toughened transparent glass having the IK protection: IK07 or higher, Painting: Chemical 3/7 tank processed treatment before the powder coat black/Grey/approved colour coat. Fixture will be suitable to operate in a temperature range of -10°C to +60°C, the light fixtures are having IP68 air vent made of stainless steel which helps to desiccate & prevent from forming moisture inside the light fixture at worst environmental condition. LED life should be at least 50,000 burning hours at L70 at 50 degrees centigrade. Luminaire is inclusive of Integral male/female waterproof connectors with structures in pre wired conditions as per IS standard. PCB thickness must be 1.6mm, 35-micron Copper, 2W TC with Black or White masking, Copper /OSP finish. LM79, IK07, HV & IP66 Certificates from NABL Accredited laboratory. LED Makes should be CREE, Lumileds, Osram, Seoul, Nichia or equivalent with the engineer or 3rd party testing laboratory approval. Power & DMX Loop In/Out along with moulded connector having the length >300mm. Certifications: CE, RoHS, BIS.</p>		
6.	<p>SITC of high quality long through Multi colour with RGBW 4in1 LED, DMX-RDM based linear wash light, Protection Rating: IP66, complying to BIS standard "IS 10322 (Part 5/Sec 1): 2012" and having CE certification against standard "Low Voltage Directive & Protective Equipment - EN 60598 (Part 2/Sec 1):2020", and "Electromagnetic Compatibility Directive - EN 61547:2020", Mounting Structure: Adjustable surface mount yoke arrangements in the die cast for fixing. Power consumption: 80W, CCT: RGBW (6000K - 7000K) (as per the design approval), Optics: PMMA/PC Lens with holder, Beam Angle: 25°/45°/60°(as per the design approval), Luminous Efficacy must be Min : 55Lm/W, Body: Die casted/ extruded aluminium with embossed manufacturer logo, Separate compartment for keeping the decoder/driver in the housing which can be easily removable for service without disturbing the LEDs/Optics, Hot spot and light distribution: Optics Designed to minimize hot spots & fringing in colour mixing applications. Luminaire shall be capable of producing dynamic colour-changing light with 16.7million colours and it shall support control via DMX, Ethernet, and Remote Device Management (RDM) for enhanced configuration and management. The luminaire should offer channel options of 8/ 4 channels by using a Programming kit, with these channels providing control for effects and colour transitions like 4 colour 4 channels, Master, Jump/ strobe, Micro function and speed. Additionally, it shall feature auto colour synchronization functionality, allowing seamless operation if there is a loss of DMX signal/ with loop in loop out. Power Input: DC 24V External Group Driver, Surge Protection: Inbuilt surge protection in the driver 2KV-4KV (Additional if required will be added as per the requirement), Toughened transparent glass having the IK protection: IK07 or higher, Painting: Chemical 3/7 tank processed treatment before the powder coat black/Grey/approved colour coat. Fixture will be suitable to operate in a temperature range of -10°C to +60°C, the light fixtures are having IP68 air vent made of stainless steel which helps to desiccate & prevent from forming</p>	1	Each

	<p>moisture inside the light fixture at worst environmental condition. LED life should be at least 50,000 burning hours at L70 at 50 degrees centigrade. Luminaire is inclusive of Integral male/female waterproof connectors with structures in pre wired conditions as per IS standard. PCB thickness must be 1.6mm, 35-micron Copper, 2W TC with Black or White masking, Copper /OSP finish. LM79, IK07, HV & IP66 Certificates from NABL Accredited laboratory. LED Makes should be CREE, Lumileds, Osram, Seoul, Nichia or equivalent with the engineer or 3rd party testing laboratory approval. Power & DMX Loop In/Out along with moulded connector having the length >300mm. Certifications: CE, RoHS, BIS.</p>		
7.	<p>SITC of high quality long through Multi colour with RGBW 4in1 LED, DMX-RDM based Slim linear wash light, Protection Rating: IP66, complying to BIS standard "IS 10322 (Part 5/Sec 1): 2012" and having CE certification against standard "Low Voltage Directive & Protective Equipment - EN 60598 (Part 2/Sec 1):2020", and "Electromagnetic Compatibility Directive - EN 61547:2020", Mounting Structure: Adjustable surface mount yoke arrangements in the die cast for fixing. Power consumption: 18W, CCT: RGBW (6000K - 7000K) (as per the design approval), Optics: PMMA/PC Lens with holder, Beam Angle: 25°/45°/60°(as per the design approval), Luminous Efficacy must be Min : 55Lm/W, Body: Die casted/ extruded aluminium with embossed manufacturer logo, Separate compartment for keeping the decoder/driver in the housing which can be easily removable for service without disturbing the LEDs/Optics, Hot spot and light distribution: Optics Designed to minimize hot spots & fringing in colour mixing applications. Luminaire shall be capable of producing dynamic colour-changing light with 16.7million colours and it shall support control via DMX, Ethernet, and Remote Device Management (RDM) for enhanced configuration and management. The luminaire should offer channel options of 8/ 4 channels by using a Programming kit, with these channels providing control for effects and colour transitions like 4 colour 4 channels, Master, Jump/ strobe, Micro function and speed. Additionally, it shall feature auto colour synchronization functionality, allowing seamless operation if there is a loss of DMX signal/ with loop in loop out. Power Input: DC 24V External Group Driver, Surge Protection: Inbuilt surge protection in the driver 2KV-4KV (Additional if required will be added as per the requirement), Toughened transparent glass having the IK protection: IK07 or higher, Painting: Chemical 3/7 tank processed treatment before the powder coat black/Grey/approved colour coat. Fixture will be suitable to operate in a temperature range of -10°C to +60°C, the light fixtures are having IP68 air vent made of stainless steel which helps to desiccate & prevent from forming moisture inside the light fixture at worst environmental condition. LED life should be at least 50,000 burning hours at L70 at 50 degrees centigrade. Luminaire is inclusive of Integral male/female waterproof connectors with structures in pre wired conditions as per IS standard. PCB thickness must be 1.6mm, 35-micron Copper, 2W TC with Black or White masking, Copper /OSP finish. LM79, IK07, HV & IP66 Certificates from NABL Accredited laboratory. LED Makes should be CREE, Lumileds, Osram, Seoul, Nichia or</p>	1	Each

	equivalent with the engineer or 3rd party testing laboratory approval. Power & DMX Loop In/Out along with moulded connector having the length >300mm. Certifications: CE, RoHS, BIS.		
8.	SITC of DC power driver for the above Lights, Power : 200W, Input : AC 110-240V AC, 50Hz, Output : DC 12/24V, Protection rating, IP67, Surge protection : LL 4KV, LE 6KV	1	Each
9.	SITC of high quality DMX decoder, Power Input : DC 24V, Input Signal: DMX512, Addressing: You can manually set DMX addresses using DIP switches or digital displays, Smooth Dimming: Enables 0-100% dimming and dynamic effects like fading or color chasing. IP Rating: IP20.	1	Each
10.	SITC of PVC insulated multi core electrical un armored flexible 5C x 0.5Sq mm power cable having less electrical losses. (As per actuals depending upon the site condition)	1	Rmt
11.	SITC of PVC insulated multi core electrical un armored flexible 3C x 1.5Sq mm power cable having less electrical losses. This PVC insulated and round sheathed wire features a bright multi strands copper conductors and it supports voltage grade up to 1100V. (As per actuals depending upon the site condition)	1	Rmt
12.	SITC of 5 core DMX cable comprises twisted pairs with shield support for carrying of data. DMX512 cable is used for connecting all light consoles that use DMX 512 standard data transmission. (As per actuals depending upon the site condition)	1	Rmt
13.	SITC of 5 pin XLR Male connectors having 5 pole cable connector, Male/Female connector with improved latch, cage type contacts, "solder stop" for easy soldering, and additional ground contact for best contact integrity between chassis and cable connector. More durable housing for maximum reliability.	1	Each
14.	SITC of 5 pin XLR Female connectors having 5 pole cable connector, Male/Female connector with improved latch, cage type contacts, "solder stop" for easy soldering, and additional ground contact for best contact integrity between chassis and cable connector. More durable housing for maximum reliability.	1	Each
15.	SITC and fixing of PVC conduit pipe on surface 25 mm Dia (Medium) with accessories, junction box etc. including clamping etc	1	Rmt
16.	SITC of Power Distribution Board made up of MS Sheet metal fabricated housing black powder coated and ivery connectors for the internal terminations and external outgoing connecting points, fibre / brass glands of suitable size fitted MCB control for outgoing circuits. Timer with required contactor for auto switching. Power panel suitable for indoor/outdoor applicable and floor mount / wall mount options. - 9 Nos of 6/10A SP Outgoing MCB's. - 1No of 16A TPN Incoming MCB.	1	Each
17.	SITC of IP driver box made up of PVC / UPVC for the internal terminations and external outgoing connecting points, with required PVC / brass glands, Optional suitable size MCB fitted for control outgoing circuits.	1	Each
18.	SITC of DMX isolator or splitter provides Isolated optical DMX splitter provides 8 outputs from a 1 input and Input voltage: AC 110 to 220 V, 50 Hz, Product features: Group 1 & group 8 DMX signal change.	1	Each

19.	SITC of Din Rail Mount DMX controller can be used to control a wide variety of different DMX systems- from RGB/RGBW to more advanced moving and color mixing luminaires, 512 DmX channels in live mode (computer), stand alone mode with 1 area and 20 scenes, Mac OSx 10.6/10.7/10.8 - Windows XP/VISTA/SEVEN/8 32/64 bits and USB 2.0, XLR3, mini USB, Power From 5V to 5.5V DC (AC/DC adapter in option).	1	Each
20.	SITC of Programming charges as per site conditions or client's approval (18 scenes).	1	job
21.	SITC of additional accessories for installing the lights as per the final drawing/site condition consisting of clamps, brackets, angles, conduits, joints, hardware's like fasteners, nut & bolts etc.,	1	Lot
22.	Supplying, erecting, testing and commissioning of diesel generating set with alternator of 10 kVA output continuous rating, 3 Phase, 415 V, 50c/s 0.8 p. f. A.C supply a totally enclosed air cooled / liquid cooled multi-cylinder diesel engine developing suitable BHP at 1500 rpm with 10% overload for 1 hour in 12 hours, along with standard accessories, self-excited, self-regulated, screen protected alternator with static excitation system running at 1500 RPM as per IS 4722-2001 with voltage regulation +/- 5 %, with performance class G2 and maximum fuel consumption of 2.4 Ltr/hr @75% loading. Both the engine and alternator direct coupled on a common fabricated steel base frame and mounted on anti-vibrating pads with standard control panel comprising of meters, switchgears, indicators connected with suitable wires/cables, the complete set enclosed in composite Acoustic enclosure as fully assembled integral unit made of 16 SWG CRCA Sheet, sound absorbing material to restrict sound level up to 75 dB at 1.0 m, provided with first filling of oil, diesel not less than 40 Ltr etc. on provided M20 Grade CC Foundation as per specification No. GEN-DG & CPCB – IV Norms.		
23.	Supplying, erecting, testing and commissioning of diesel generating set with alternator of 40 kVA output continuous rating, 3 Phase, 415 V, 50c/s 0.8 p. f. A.C supply, a totally enclosed air cooled / liquid cooled multi-cylinder diesel engine developing suitable BHP at 1500 rpm with 10% overload for 1 hour in 12 hours, along with standard accessories, self-excited self-regulated, screen protected alternator with static excitation system running at 1500 RPM as per IS 4722-2001 with voltage regulation +/- 5 %, with performance class G2 and maximum fuel consumption 7.47 Ltr/hr @75% loading. Both the engine and alternator direct coupled on a common fabricated steel base frame and mounted on anti-vibrating pads with standard control panel comprising meters, switchgears, indicators connected with suitable wires/cables, the complete set enclosed in composite Acoustic enclosure as fully assembled integral unit made of 16 SWG CRCA Sheet, sound absorbing material to restrict sound level up to 75 dB at 1.0 m, provided with first filling of oil, diesel not less than 75 Ltr etc. on provided M20 Grade CC Foundation as per specification no. GEN-DG & CPCB – IV Norms.		
24.	Supplying, erecting, testing and commissioning of diesel generating set withM alternator of 62.5 kVA output continuous rating, 3 Phase, 415 V, 50c/s 0.8 p. f. A.C supply, a totally enclosed air cooled / liquid cooled multi-cylinder diesel engine developing suitable BHP at 1500 rpm with 10% overload for 1 hour in 12 hours, along with standard accessories, self-excited, self-regulated, screen protected alternator with static excitation system running at 1500 RPM as per IS 4722-2001 with voltage regulation +/- 5 %, with performance class G2 and maximum fuel consumption 11.3 Ltr/hr @75% loading. Both the engine and alternator direct coupled on a common	1	Each

	fabricated steel base frame and mounted on anti-vibrating pads with standard control panel comprising meters, switchgears, indicators connected with suitable wires/cables, the complete set enclosed in composite Acoustic enclosure as fully assembled integral unit made of 16 SWG CRCA Sheet, sound absorbing material to restrict sound level up to 75 dB at 1.0 m, provided with first filling of oil, diesel not less than 150 Ltr etc. on provided M20 Grade CC Foundation as per specification no. GEN-DG & CPCB - IV Norms.		
25.	Supplying, erecting, testing and commissioning of diesel generating set with alternator of 82.5 kVA output continuous rating, 3 Phase, 415 V, 50c/s 0.8 p. f. A.C supply, a totally enclosed air cooled / liquid cooled multi-cylinder diesel engine developing suitable BHP at 1500 rpm with 10% overload for 1 hour in 12 hours, along with standard accessories, self-excited, self-regulated, screen protected alternator with static excitation system running at 1500 RPM as per IS 4722-2001 with voltage regulation +/- 5 %, with performance class G2 and maximum fuel consumption 14.0 Ltr/hr @75% loading. Both the engine and alternator direct coupled on a common fabricated steel base frame and mounted on anti-vibrating pads with standard control panel comprising meters, switchgears, indicators connected with suitable wires/cables, the complete set enclosed in composite Acoustic enclosure as fully assembled integral unit made of 16 SWG CRCA Sheet, sound absorbing material to restrict sound level up to 75 dB at 1.0 m, provided with first filling of oil, diesel not less than 145 Ltr etc. on provided M20 Grade CC Foundation as per specification no. GEN-DG & CPCB - IV Norms.	1	Each
26.	Supplying, erecting, testing and commissioning of diesel generating set with alternator of 100 kVA output continuous rating, 3 Phase, 415 V, 50c/s 0.8 p. f. A.C supply, a totally enclosed air cooled / liquid cooled multi-cylinder diesel engine developing suitable BHP at 1500 rpm with 10% overload for 1 hour in 12 hours, along with standard accessories, self-excited, self-regulated, screen protected alternator with static excitation system running at 1500 RPM as per IS 4722-2001 with voltage regulation +/- 5 %, with performance class G2 and maximum fuel consumption 17.4 Ltr/hr @75% loading. Both the engine and alternator direct coupled on a common fabricated steel base frame and mounted on anti-vibrating pads with standard control panel comprising meters, switchgears, indicators connected with suitable wires/cables, the complete set enclosed in composite Acoustic enclosure as fully assembled integral unit made of 16 SWG CRCA Sheet, sound absorbing material to restrict sound level up to 75 dB at 1.0 m, provided with first filling of oil, diesel not less than 230 Ltr etc. on provided M20 Grade CC Foundation as per specification no. GEN-DG & CPCB - IV Norms.	1	Each
27.	Supplying, erecting, testing and commissioning of diesel generating set with alternator of 125 kVA output continuous rating, 3 Phase, 415 V, 50c/s 0.8 p. f. A.C supply, a totally enclosed air cooled / liquid cooled multi-cylinder diesel engine developing suitable BHP at 1500 rpm with 10% overload for 1 hour in 12 hours, along with standard accessories, self-excited, self-regulated, screen protected alternator with static excitation system running at 1500 RPM as per IS 4722-2001 with voltage regulation +/- 5 %, with performance class G2 and maximum fuel consumption 21.4 Ltr/hr @75% loading. Both the engine and alternator direct coupled on a common fabricated steel base frame and mounted on anti-vibrating pads with standard control panel comprising meters, switchgears, indicators connected with suitable wires/cables, the complete set enclosed in composite Acoustic enclosure as fully assembled integral unit made of 16 SWG CRCA Sheet, sound absorbing	1	Each

	material to restrict sound level up to 75 dB at 1.0 m, provided with first filling of oil, diesel not less than 230 Ltr etc. on provided M20 Grade CC Foundation as per specification no. GEN-DG & CPCB - IV Norms.		
28.	Supplying, erecting, testing and commissioning of diesel generating set with alternator of 180 kVA output continuous rating, 3 Phase, 415 V, 50c/s 0.8 p. f. A.C supply, a totally enclosed air cooled / liquid cooled multi-cylinder diesel engine developing suitable BHP at 1500 rpm with 10% overload for 1 hour in 12 hours, along with standard accessories, self-excited, self-regulated, screen protected alternator with static excitation system running at 1500 RPM as per IS 4722-2001 with voltage regulation +/- 5 %, with performance class G2 and maximum fuel consumption 30.90 Ltr/hr @75% loading. Both the engine and alternator direct coupled on a common fabricated steel base frame and mounted on anti-vibrating pads with standard control panel comprising meters, switchgears, indicators connected with suitable wires/cables, the complete set enclosed in composite Acoustic enclosure as fully assembled integral unit made of 16 SWG CRCA Sheet, sound absorbing material to restrict sound level up to 75 dB at 1.0 m, provided with first filling of oil, diesel not less than 300 Ltr etc. on provided M20 Grade CC Foundation as per specification no. GEN-DG & CPCB - IV Norms.	1	Each
29.	Supplying, erecting, testing and commissioning of diesel generating set with alternator of 250 kVA output continuous rating, 3 Phase, 415 V, 50c/s 0.8 p. f. A.C supply, a totally enclosed air cooled / liquid cooled multi-cylinder diesel engine developing suitable BHP at 1500 rpm with 10% overload for 1 hour in 12 hours, along with standard accessories, self-excited, self-regulated, screen protected alternator with static excitation system running at 1500 RPM as per IS 4722-2001 with voltage regulation +/- 5 %, with performance class G2 and maximum fuel consumption 42.30 Ltr/hr @75% loading. Both the engine and alternator direct coupled on a common fabricated steel base frame and mounted on anti-vibrating pads with standard control panel comprising meters, switchgears, indicators connected with suitable wires/cables, the complete set enclosed in composite Acoustic enclosure as fully assembled integral unit made of 16 SWG CRCA Sheet, sound absorbing material to restrict sound level up to 75 dB at 1.0 m, provided with first filling of oil, diesel not less than 425 Ltr etc. on provided M20 Grade CC Foundation and obtaining necessary approval from Electrical Inspector as per specification no. GEN-DG & CPCB - IV Norms.	1	Each
30.	Supplying, erecting, testing and commissioning of diesel generating set with alternator of 320 kVA output continuous rating, 3 Phase, 415 V, 50c/s 0.8 p. f. A.C supply, a totally enclosed air cooled / liquid cooled multi-cylinder diesel engine developing suitable BHP at 1500 rpm with 10% overload for 1 hour in 12 hours, along with standard accessories, self-excited, self-regulated, screen protected alternator with static excitation system running at 1500 RPM as per IS 4722-2001 with voltage regulation +/- 5 %, with performance class G2 and maximum fuel consumption 54.89 Ltr/hr @75% loading. Both the engine and alternator direct coupled on a common fabricated steel base frame and mounted on anti-vibrating pads with standard control panel comprising meters, switchgears, indicators connected with suitable wires/cables, the complete set enclosed in composite Acoustic enclosure as fully assembled integral unit made of 16 SWG CRCA Sheet, sound absorbing material to restrict sound level up to 75 dB at 1.0 m, provided with first filling of oil, diesel not less than 480 Ltr etc. on provided M20 Grade CC Foundation and obtaining necessary approval from Electrical Inspector as per specification no. GEN-DG & CPCB - IV Norms.	1	Each

31.	<p>Supplying, erecting, testing and commissioning of diesel generating set with alternator of 380/400 kVA output continuous rating, 3 Phase, 415 V, 50c/s 0.8 p. f. A.C supply, a totally enclosed air cooled / liquid cooled multi-cylinder diesel engine developing suitable BHP at 1500 rpm with 10% overload for 1 hour in 12 hours, along with standard accessories, self-excited, self-regulated, screen protected alternator with static excitation system running at 1500 RPM as per IS 4722-2001 with voltage regulation +/- 5 %, with performance class G2 and maximum fuel consumption 65.5 Ltr/hr @75% loading. Both the engine and alternator direct coupled on a common fabricated steel base frame and mounted on anti-vibrating pads with standard control panel comprising meters, switchgears, indicators connected with suitable wires/cables, the complete set enclosed in composite Acoustic enclosure as fully assembled integral unit made of 16 SWG CRCA Sheet, sound absorbing material to restrict sound level up to 75 dB at 1.0 m, provided with first filling of oil, diesel not less than 450 Ltr etc. on provided M20 Grade CC Foundation and obtaining necessary approval from Electrical Inspector as per specification no. GEN-DG & CPCB – IV Norms.</p>	1	Each
32.	<p>Supplying, erecting, testing and commissioning of diesel generating set with alternator of 750 kVA output continuous rating, 3 Phase, 415 V, 50c/s 0.8 p. f. A.C supply, a totally enclosed air cooled / liquid cooled multi-cylinder diesel engine developing suitable BHP at 1500 rpm with 10% overload for 1 hour in 12 hours, along with standard accessories, self-excited, self-regulated, screen protected alternator with static excitation system running at 1500 RPM as per IS 4722-2001 with voltage regulation +/- 5 %, with performance class G2 and maximum fuel consumption 126.4 Ltr/hr @75% loading. Both the engine and alternator direct coupled on a common fabricated steel base frame and mounted on anti-vibrating pads with standard control panel comprising meters, switchgears, indicators connected with suitable wires/cables, the complete set enclosed in composite acoustic enclosure as fully assembled integral unit made of 16 SWG CRCA sheet, sound absorbing material to restrict sound level up to 75 dB at 1.0 m, provided with first filling of oil, diesel not less than 990 Ltr etc. on provided M20 Grade CC Foundation and obtaining necessary approval from Electrical Inspector as per specification no. GEN-DG & CPCB – IV Norms.</p>	1	Each
33.	<p>Supplying, erecting, testing and commissioning of diesel generating set with alternator of 1000 kVA output continuous rating, 3 Phase, 415 V, 50c/s 0.8 p. f. A.C supply, a totally enclosed air cooled / liquid cooled multi-cylinder diesel engine developing suitable BHP at 1500 rpm with 10% overload for 1 hour in 12 hours, along with standard accessories, self-excited, self-regulated, screen protected alternator with static excitation system running at 1500 RPM as per IS 4722-2001 with voltage regulation +/- 5 %, with performance class G2 and maximum fuel consumption 168 Ltr/hr @75% loading. Both the engine and alternator direct coupled on a common fabricated steel base frame and mounted on anti-vibrating pads with standard control panel comprising meters, switchgears, indicators connected with suitable wires/cables, the complete set enclosed in composite acoustic enclosure as fully assembled integral unit made of 16 SWG CRCA sheet, sound absorbing material to restrict sound level up to 75 dB at 1.0 m, provided with first filling of oil, diesel not less than 1200 Ltr etc. on provided M20 Grade CC Foundation and obtaining necessary approval from Electrical Inspector as per specification no. GEN-DG & CPCB – IV Norms.</p>	1	Each
34.	<p>Providing CNC Filament wound 3 m high (clear height) Flange Type Shockproof Glass Fibre Reinforced Polymer (GFRP) Conical Coloured pole manufactured using sophisticated multi axes Siemens controlled CNC</p>	1	Each

	<p>filament winding machines using E Class Fibers having Glass content of 65 to 70 percent. Top OD 100 mm and Bottom OD 145 mm, tolerance +/- 1 mm, thickness of 6 mm throughout the length, with tolerance for length +/- 25 mm. and tolerance for overall thickness +/- 0.5 mm. Pole should be shockproof, to be finished on the outside with UV inhibitors in accordance with ASTM G 154, Izod Impact Strength of 80 k/Jm², Barcol Hardness of 45 BHU, Tensile Modulus of 9000 MPa, Surface Resistivity of 1.6*10¹⁶ Ω, Volume Resistivity of 4.05*10¹³ Ω cm, Tensile Modulus of Elasticity 22918 N/mm², all as per ANSI 136.20 & BS EN 40-2-2004. Wind Speed sustainability to be minimum 180 KMPH, Flammability test which confirms to V0 rating of UL 94. Testing certificates from NABL or NABL accredited Labs. Pole to have pigmented color during the winding process. Base Plate in GFRP material with minimum thickness of 16 mm. TUV Certification, Batch wise Test report, LOGO incorporation, inscribed 1.6 to 2 mm inside the Pole material. Junction Box in ABS with hinge type Cover. 3 Year Warranty against any manufacturing defects. as specified by Engineer Incharge.</p>		
35.	<p>Providing CNC Filament wound 4 m high (clear height) Flange Type Shockproof Glass Fibre Reinforced Polymer (GFRP) Conical Coloured pole manufactured using sophisticated multi axes Siemens controlled CNC filament winding machines using E Class Fibers having Glass content of 65 to 70 percent. Top OD 100 mm and Bottom OD 165 mm, tolerance +/- 1 mm, thickness of 6 mm throughout the length, with tolerance for length +/- 25 mm. and tolerance for overall thickness +/- 0.5 mm. Pole should be shockproof, to be finished on the outside with UV inhibitors in accordance with ASTM G 154, Izod Impact Strength of 80 k/Jm², Barcol Hardness of 45 BHU, Tensile Modulus of 9000 MPa, Surface Resistivity of 1.6*10¹⁶ Ω, Volume Resistivity of 4.05*10¹³ Ω cm, Tensile Modulus of Elasticity 22918 N/mm², all as per ANSI 136.20 & BS EN 40-2-2004. Wind Speed sustainability to be minimum 180 KMPH, Flammability test which confirms to V0 rating of UL 94. Testing certificates from NABL or NABL accredited Labs. Pole to have pigmented color during the winding process. Base Plate in GFRP material with minimum thickness of 16 mm. TUV Certification, Batch wise Test report, LOGO incorporation, inscribed 1.6 to 2 mm inside the Pole material. Junction Box in ABS with hinge type Cover. 3 Year Warranty against any manufacturing defects. as specified by Engineer Incharge.</p>	1	Each
36.	<p>Providing CNC Filament wound 5 m high (clear height) Flange Type Shockproof Glass Fibre Reinforced Polymer (GFRP) Conical Coloured pole manufactured using sophisticated multi axes Siemens controlled CNC filament winding machines using E Class Fibers having Glass content of 65 to 70 percent. Top OD 100 mm and Bottom OD 175 mm, tolerance +/- 1 mm, thickness of 6 mm throughout the length, with tolerance for length +/- 25 mm. and tolerance for overall thickness +/- 0.5 mm. Pole should be shockproof, to be finished on the outside with UV inhibitors in accordance with ASTM G 154, Izod Impact Strength of 80 k/Jm², Barcol Hardness of 45 BHU, Tensile Modulus of 9000 MPa, Surface Resistivity of 1.6*10¹⁶ Ω, Volume Resistivity of 4.05*10¹³ Ω cm, Tensile Modulus of Elasticity 22918 N/mm², all as per ANSI 136.20 & BS EN 40-2-2004. Wind Speed sustainability to be minimum 180 KMPH, Flammability test which confirms to V0 rating of UL 94. Testing certificates from NABL or NABL accredited Labs. Pole to have pigmented color during the winding process. Base Plate in GFRP material with minimum thickness of 16 mm. TUV Certification, Batch wise Test report, LOGO incorporation, inscribed 1.6 to 2 mm inside the Pole material. Junction Box in ABS with hinge type Cover. 3 Year Warranty against any manufacturing defects. as specified by Engineer Incharge.</p>	1	Each

37.	<p>Providing CNC Filament wound 6 m high (clear height) Flange Type Shockproof Glass Fibre Reinforced Polymer (GFRP) Conical Coloured pole manufactured using sophisticated multi axes Siemens controlled CNC filament winding machines using E Class Fibers having Glass content of 65 to 70 percent. Top OD 100 mm and Bottom OD 200 mm, tolerance +/- 1 mm, thickness of 6 mm throughout the length, with tolerance for length +/- 25 mm. and tolerance for overall thickness +/- 0.5 mm. Pole should be shockproof, to be finished on the outside with UV inhibitors in accordance with ASTM G 154, Izod Impact Strength of 80 k/Jm², Barcol Hardness of 45 BHU, Tensile Modulus of 9000 MPa, Surface Resistivity of 1.6*10¹⁶ Ω, Volume Resistivity of 4.05*10¹³ Ω cm, Tensile Modulus of Elasticity 22918 N/mm², all as per ANSI 136.20 & BS EN 40-2-2004. Wind Speed sustainability to be minimum 180 KMPH, Flammability test which confirms to V0 rating of UL 94. Testing certificates from NABL or NABL accredited Labs. Pole to have pigmented color during the winding process. Base Plate in GFRP material with minimum thickness of 16 mm. TUV Certification, Batch wise Test report, LOGO incorporation, inscribed 1.6 to 2 mm inside the Pole material. Junction Box in ABS with hinge type Cover. 3 Year Warranty against any manufacturing defects. as specified by Engineer Incharge.</p>	1	Each
38.	<p>Providing CNC Filament wound 7 m high (clear height) Flange Type Shockproof Glass Fibre Reinforced Polymer (GFRP) Conical Coloured pole manufactured using sophisticated multi axes Siemens controlled CNC filament winding machines using E Class Fibers having Glass content of 65 to 70 percent. Top OD 105 mm and Bottom OD 215 mm, tolerance +/- 1 mm, thickness of 8 mm throughout the length, with tolerance for length +/- 25 mm. and tolerance for overall thickness +/- 0.5 mm. Pole should be shockproof, to be finished on the outside with UV inhibitors in accordance with ASTM G 154, Izod Impact Strength of 80 k/Jm², Barcol Hardness of 45 BHU, Tensile Modulus of 9000 MPa, Surface Resistivity of 1.6*10¹⁶ Ω, Volume Resistivity of 4.05*10¹³ Ω cm, Tensile Modulus of Elasticity 22918 N/mm², all as per ANSI 136.20 & BS EN 40-2-2004. Wind Speed sustainability to be minimum 180 KMPH, Flammability test which confirms to V0 rating of UL 94. Testing certificates from NABL or NABL accredited Labs. Pole to have pigmented color during the winding process. Base Plate in GFRP material with minimum thickness of 16 mm. TUV Certification, Batch wise Test report, LOGO incorporation, inscribed 1.6 to 2 mm inside the Pole material. Junction Box in ABS with hinge type Cover. 3 Year Warranty against any manufacturing defects. as specified by Engineer Incharge.</p>	1	Each
39.	<p>Providing CNC Filament wound 8 m high (clear height) Flange Type Shockproof Glass Fibre Reinforced Polymer (GFRP) Conical Coloured pole manufactured using sophisticated multi axes Siemens controlled CNC filament winding machines using E Class Fibers having Glass content of 65 to 70 percent. Top OD 105 mm and Bottom OD 230 mm, tolerance +/- 1 mm, thickness of 8 mm throughout the length, with tolerance for length +/- 25 mm. and tolerance for overall thickness +/- 0.5 mm. Pole should be shockproof, to be finished on the outside with UV inhibitors in accordance with ASTM G 154, Izod Impact Strength of 80 k/Jm², Barcol Hardness of 45 BHU, Tensile Modulus of 9000 MPa, Surface Resistivity of 1.6*10¹⁶ Ω, Volume Resistivity of 4.05*10¹³ Ω cm, Tensile Modulus of Elasticity 22918 N/mm², all as per ANSI 136.20 & BS EN 40-2-2004. Wind Speed sustainability to be minimum 180 KMPH, Flammability test which confirms to V0 rating of UL 94. Testing certificates from NABL or NABL accredited Labs. Pole to have pigmented color during the winding process. Base Plate in GFRP material with minimum thickness of 16 mm. TUV Certification, Batch</p>	1	Each

	wise Test report, LOGO incorporation, inscribed 1.6 to 2 mm inside the Pole material. Junction Box in ABS with hinge type Cover. 3 Year Warranty against any manufacturing defects. as specified by Engineer Incharge.		
40.	Providing CNC Filament wound 9 m high (clear height) Flange Type Shockproof Glass Fibre Reinforced Polymer (GFRP) Conical Coloured pole manufactured using sophisticated multi axes Siemens controlled CNC filament winding machines using E Class Fibers having Glass content of 65 to 70 percent. Top OD 110 mm and Bottom OD 240 mm, tolerance +/- 1 mm, thickness of 8 mm throughout the length, with tolerance for length +/- 25 mm. and tolerance for overall thickness +/- 0.5 mm. Pole should be shockproof, to be finished on the outside with UV inhibitors in accordance with ASTM G 154, Izod Impact Strength of 80 k/Jm ² , Barcol Hardness of 45 BHU, Tensile Modulus of 9000 MPa, Surface Resistivity of 1.6*10 ¹⁶ Ω, Volume Resistivity of 4.05*10 ¹³ Ω cm, Tensile Modulus of Elasticity 22918 N/mm ² , all as per ANSI 136.20 & BS EN 40-2-2004. Wind Speed sustainability to be minimum 180 KMPH, Flammability test which confirms to V0 rating of UL 94. Testing certificates from NABL or NABL accredited Labs. Pole to have pigmented color during the winding process. Base Plate in GFRP material with minimum thickness of 16 mm. TUV Certification, Batch wise Test report, LOGO incorporation, inscribed 1.6 to 2 mm inside the Pole material. Junction Box in ABS with hinge type Cover. 3 Year Warranty against any manufacturing defects. as specified by Engineer Incharge.	1	Each
41.	Providing CNC Filament wound 10 m high (clear height) Flange Type Shockproof Glass Fibre Reinforced Polymer (GFRP) Conical Coloured pole manufactured using sophisticated multi axes Siemens controlled CNC filament winding machines using E Class Fibers having Glass content of 65 to 70 percent. Top OD 110 mm and Bottom OD 260 mm, tolerance +/- 1 mm, thickness of 8 mm throughout the length, with tolerance for length +/- 25 mm. and tolerance for overall thickness +/- 0.5 mm. Pole should be shockproof, to be finished on the outside with UV inhibitors in accordance with ASTM G 154, Izod Impact Strength of 80 k/Jm ² , Barcol Hardness of 45 BHU, Tensile Modulus of 9000 MPa, Surface Resistivity of 1.6*10 ¹⁶ Ω, Volume Resistivity of 4.05*10 ¹³ Ω cm, Tensile Modulus of Elasticity 22918 N/mm ² , all as per ANSI 136.20 & BS EN 40-2-2004. Wind Speed sustainability to be minimum 180 KMPH, Flammability test which confirms to V0 rating of UL 94. Testing certificates from NABL or NABL accredited Labs. Pole to have pigmented color during the winding process. Base Plate in GFRP material with minimum thickness of 16 mm. TUV Certification, Batch wise Test report, LOGO incorporation, inscribed 1.6 to 2 mm inside the Pole material. Junction Box in ABS with hinge type Cover. 3 Year Warranty against any manufacturing defects. as specified by Engineer Incharge.	1	Each
42.	Providing CNC Filament wound 11 m high (clear height) Flange Type Shockproof Glass Fibre Reinforced Polymer (GFRP) Conical Coloured pole manufactured using sophisticated multi axes Siemens controlled CNC filament winding machines using E Class Fibers having Glass content of 65 to 70 percent. Top OD 140 mm and Bottom OD 305 mm, tolerance +/- 1 mm, thickness of 8 mm throughout the length, with tolerance for length +/- 25 mm. and tolerance for overall thickness +/- 0.5 mm. Pole should be shockproof, to be finished on the outside with UV inhibitors in accordance with ASTM G 154, Izod Impact Strength of 80 k/Jm ² , Barcol Hardness of 45 BHU, Tensile Modulus of 9000 MPa, Surface Resistivity of 1.6*10 ¹⁶ Ω, Volume Resistivity of 4.05*10 ¹³ Ω cm, Tensile Modulus of Elasticity 22918 N/mm ² , all as per ANSI 136.20 & BS EN 40-2-2004. Wind Speed sustainability to be minimum 180 KMPH, Flammability test which confirms	1	Each

	to V0 rating of UL 94. Testing certificates from NABL or NABL accredited Labs. Pole to have pigmented color during the winding process. Base Plate in GFRP material with minimum thickness of 16 mm. TUV Certification, Batch wise Test report, LOGO incorporation, inscribed 1.6 to 2 mm inside the Pole material. Junction Box in ABS with hinge type Cover. 3 Year Warranty against any manufacturing defects. as specified by Engineer Incharge.		
43.	Providing CNC Filament wound 12 m high (clear height) Flange Type Shockproof Glass Fibre Reinforced Polymer (GFRP) Conical Coloured pole manufactured using sophisticated multi axes Siemens controlled CNC filament winding machines using E Class Fibers having Glass content of 65 to 70 percent. Top OD 140 mm and Bottom OD 320 mm, tolerance +/- 1 mm, thickness of 8 mm throughout the length, with tolerance for length +/- 25 mm. and tolerance for overall thickness +/- 0.5 mm. Pole should be shockproof, to be finished on the outside with UV inhibitors in accordance with ASTM G 154, Izod Impact Strength of 80 k/Jm ² , Barcol Hardness of 45 BHU, Tensile Modulus of 9000 MPa, Surface Resistivity of 1.6*10 ¹⁶ Ω, Volume Resistivity of 4.05*10 ¹³ Ω cm, Tensile Modulus of Elasticity 22918 N/mm ² , all as per ANSI 136.20 & BS EN 40-2-2004. Wind Speed sustainability to be minimum 180 KMPH, Flammability test which confirms to V0 rating of UL 94. Testing certificates from NABL or NABL accredited Labs. Pole to have pigmented color during the winding process. Base Plate in GFRP material with minimum thickness of 16 mm. TUV Certification, Batch wise Test report, LOGO incorporation, inscribed 1.6 to 2 mm inside the Pole material. Junction Box in ABS with hinge type Cover. 3 Year Warranty against any manufacturing defects. as specified by Engineer Incharge.	1	Each
44.	Providing CNC Filament wound 3 m high (clear height) Flange Type Shockproof Glass Fibre Reinforced Polymer (GFRP) Conical Translucent pole manufactured using sophisticated multi axes Siemens controlled CNC filament winding machines using E Class Fibers having Glass content of 65 to 70 percent. Top OD 100 mm and Bottom OD 145 mm, tolerance +/- 1 mm, thickness of 6 mm throughout the length, with tolerance for length +/- 25 mm. and tolerance for overall thickness +/- 0.5 mm. Pole should be shockproof Poles to be finished on the outside with UV inhibitors in accordance with ASTM G 154, Izod Impact Strength of 80 k/Jm ² , Barcol Hardness of 45 BHU, Tensile Modulus of 9000 MPa, Surface Resistivity of 1.6*10 ¹⁶ Ω, Volume Resistivity of 4.05*10 ¹³ Ω cm, Tensile Modulus of Elasticity 22918 N/mm ² , all as per ANSI 136.20 & BS EN 40-2-2004. Wind Speed sustainability to be minimum 180 KMPH, Flammability test which confirms to V0 rating of UL 94. Testing certificates from NABL or NABL accredited Labs. Pole to have neutral resin and adhesive during the winding process. Base Plate in GFRP material with minimum thickness of 16 mm. TUV Certification, Batch wise Test report, LOGO incorporation, inscribed 1.6 to 2 mm inside the Pole material. 3 Year Warranty against any manufacturing defects. as specified by Engineer Incharge.	1	Each
45.	Providing CNC Filament wound 4 m high (clear height) Flange Type Shockproof Glass Fibre Reinforced Polymer (GFRP) Conical Translucent pole manufactured using sophisticated multi axes Siemens controlled CNC filament winding machines using E Class Fibers having Glass content of 65 to 70 percent. Top OD 100 mm and Bottom OD 165 mm, tolerance +/- 1 mm, thickness of 6 mm throughout the length, with tolerance for length +/- 25 mm. and tolerance for overall thickness +/- 0.5 mm. Pole should be shockproof Poles to be finished on the outside with UV inhibitors in accordance with ASTM G 154, Izod Impact Strength of 80 k/Jm ² , Barcol Hardness of 45 BHU, Tensile Modulus of 9000 MPa, Surface Resistivity of	1	Each

	1.6*10 ¹⁶ Ω, Volume Resistivity of 4.05*10 ¹³ Ω cm, Tensile Modulus of Elasticity 22918 N/mm ² , all as per ANSI 136.20 & BS EN 40-2-2004. Wind Speed sustainability to be minimum 180 KMPH, Flammability test which confirms to V0 rating of UL 94. Testing certificates from NABL or NABL accredited Labs. Pole to have neutral resin and adhesive during the winding process. Base Plate in GFRP material with minimum thickness of 16 mm. TUV Certification, Batch wise Test report, LOGO incorporation, inscribed 1.6 to 2 mm inside the Pole material. 3 Year Warranty against any manufacturing defects. as specified by Engineer Incharge.		
46.	Providing CNC Filament wound 5 m high (clear height) Flange Type Shockproof Glass Fibre Reinforced Polymer (GFRP) Conical Translucent pole manufactured using sophisticated multi axes Siemens controlled CNC filament winding machines using E Class Fibers having Glass content of 65 to 70 percent. Top OD 100 mm and Bottom OD 175 mm, tolerance +/- 1 mm, thickness of 6 mm throughout the length, with tolerance for length +/- 25 mm. and tolerance for overall thickness +/- 0.5 mm. Pole should be shockproof Poles to be finished on the outside with UV inhibitors in accordance with ASTM G 154, Izod Impact Strength of 80 k/Jm ² , Barcol Hardness of 45 BHU, Tensile Modulus of 9000 MPa, Surface Resistivity of 1.6*10 ¹⁶ Ω, Volume Resistivity of 4.05*10 ¹³ Ω cm, Tensile Modulus of Elasticity 22918 N/mm ² , all as per ANSI 136.20 & BS EN 40-2-2004. Wind Speed sustainability to be minimum 180 KMPH, Flammability test which confirms to V0 rating of UL 94. Testing certificates from NABL or NABL accredited Labs. Pole to have neutral resin and adhesive during the winding process. Base Plate in GFRP material with minimum thickness of 16 mm. TUV Certification, Batch wise Test report, LOGO incorporation, inscribed 1.6 to 2 mm inside the Pole material. 3 Year Warranty against any manufacturing defects. as specified by Engineer Incharge.	1	Each
47.	Providing CNC Filament wound 6 m high (clear height) Flange Type Shockproof Glass Fibre Reinforced Polymer (GFRP) Conical Translucent pole manufactured using sophisticated multi axes Siemens controlled CNC filament winding machines using E Class Fibers having Glass content of 65 to 70 percent. Top OD 100 mm and Bottom OD 200 mm, tolerance +/- 1 mm, thickness of 6 mm throughout the length, with tolerance for length +/- 25 mm. and tolerance for overall thickness +/- 0.5 mm. Pole should be shockproof Poles to be finished on the outside with UV inhibitors in accordance with ASTM G 154, Izod Impact Strength of 80 k/Jm ² , Barcol Hardness of 45 BHU, Tensile Modulus of 9000 MPa, Surface Resistivity of 1.6*10 ¹⁶ Ω, Volume Resistivity of 4.05*10 ¹³ Ω cm, Tensile Modulus of Elasticity 22918 N/mm ² , all as per ANSI 136.20 & BS EN 40-2-2004. Wind Speed sustainability to be minimum 180 KMPH, Flammability test which confirms to V0 rating of UL 94. Testing certificates from NABL or NABL accredited Labs. Pole to have neutral resin and adhesive during the winding process. Base Plate in GFRP material with minimum thickness of 16 mm. TUV Certification, Batch wise Test report, LOGO incorporation, inscribed 1.6 to 2 mm inside the Pole material. 3 Year Warranty against any manufacturing defects. as specified by Engineer Incharge.	1	Each
48.	Providing CNC Filament wound 7 m high (clear height) Flange Type Shockproof Glass Fibre Reinforced Polymer (GFRP) Conical Translucent pole manufactured using sophisticated multi axes Siemens controlled CNC filament winding machines using E Class Fibers having Glass content of 65 to 70 percent. Top OD 105 mm and Bottom OD 215 mm, tolerance +/- 1 mm, thickness of 8 mm throughout the length, with tolerance for length +/- 25 mm. and tolerance for overall thickness +/- 0.5 mm. Pole should be	1	Each

	<p>shockproof Poles to be finished on the outside with UV inhibitors in accordance with ASTM G 154, Izod Impact Strength of 80 k/Jm², Barcol Hardness of 45 BHU, Tensile Modulus of 9000 MPa, Surface Resistivity of 1.6*10¹⁶ Ω, Volume Resistivity of 4.05*10¹³ Ω cm, Tensile Modulus of Elasticity 22918 N/mm², all as per ANSI 136.20 & BS EN 40-2-2004. Wind Speed sustainability to be minimum 180 KMPH, Flammability test which confirms to V0 rating of UL 94. Testing certificates from NABL or NABL accredited Labs. Pole to have neutral resin and adhesive during the winding process. Base Plate in GFRP material with minimum thickness of 16 mm. TUV Certification, Batch wise Test report, LOGO incorporation, inscribed 1.6 to 2 mm inside the Pole material. 3 Year Warranty against any manufacturing defects. as specified by Engineer Incharge.</p>		
49.	<p>Providing CNC Filament wound 8 m high (clear height) Flange Type Shockproof Glass Fibre Reinforced Polymer (GFRP) Conical Translucent pole manufactured using sophisticated multi axes Siemens controlled CNC filament winding machines using E Class Fibers having Glass content of 65 to 70 percent. Top OD 105 mm and Bottom OD 230 mm, tolerance +/- 1 mm, thickness of 8 mm throughout the length, with tolerance for length +/- 25 mm. and tolerance for overall thickness +/- 0.5 mm. Pole should be shockproof Poles to be finished on the outside with UV inhibitors in accordance with ASTM G 154, Izod Impact Strength of 80 k/Jm², Barcol Hardness of 45 BHU, Tensile Modulus of 9000 MPa, Surface Resistivity of 1.6*10¹⁶ Ω, Volume Resistivity of 4.05*10¹³ Ω cm, Tensile Modulus of Elasticity 22918 N/mm², all as per ANSI 136.20 & BS EN 40-2-2004. Wind Speed sustainability to be minimum 180 KMPH, Flammability test which confirms to V0 rating of UL 94. Testing certificates from NABL or NABL accredited Labs. Pole to have neutral resin and adhesive during the winding process. Base Plate in GFRP material with minimum thickness of 16 mm. TUV Certification, Batch wise Test report, LOGO incorporation, inscribed 1.6 to 2 mm inside the Pole material. 3 Year Warranty against any manufacturing defects. as specified by Engineer Incharge.</p>	1	Each
50.	<p>Providing CNC Filament wound 9 m high (clear height) Flange Type Shockproof Glass Fibre Reinforced Polymer (GFRP) Conical Translucent pole manufactured using sophisticated multi axes Siemens controlled CNC filament winding machines using E Class Fibers having Glass content of 65 to 70 percent. Top OD 110 mm and Bottom OD 240 mm, tolerance +/- 1 mm, thickness of 8 mm throughout the length, with tolerance for length +/- 25 mm. and tolerance for overall thickness +/- 0.5 mm. Pole should be shockproof Poles to be finished on the outside with UV inhibitors in accordance with ASTM G 154, Izod Impact Strength of 80 k/Jm², Barcol Hardness of 45 BHU, Tensile Modulus of 9000 MPa, Surface Resistivity of 1.6*10¹⁶ Ω, Volume Resistivity of 4.05*10¹³ Ω cm, Tensile Modulus of Elasticity 22918 N/mm², all as per ANSI 136.20 & BS EN 40-2-2004. Wind Speed sustainability to be minimum 180 KMPH, Flammability test which confirms to V0 rating of UL 94. Testing certificates from NABL or NABL accredited Labs. Pole to have neutral resin and adhesive during the winding process. Base Plate in GFRP material with minimum thickness of 16 mm. TUV Certification, Batch wise Test report, LOGO incorporation, inscribed 1.6 to 2 mm inside the Pole material. 3 Year Warranty against any manufacturing defects. as specified by Engineer Incharge.</p>	1	Each
51.	<p>Providing CNC Filament wound 10 m high (clear height) Flange Type Shockproof Glass Fibre Reinforced Polymer (GFRP) Conical Translucent pole manufactured using sophisticated multi axes Siemens controlled CNC filament winding machines using E Class Fibers having Glass content of 65 to</p>	1	Each

	<p>70 percent. Top OD 110 mm and Bottom OD 260 mm, tolerance +/- 1 mm, thickness of 8 mm throughout the length, with tolerance for length +/- 25 mm. and tolerance for overall thickness +/- 0.5 mm. Pole should be shockproof Poles to be finished on the outside with UV inhibitors in accordance with ASTM G 154, Izod Impact Strength of 80 k/Jm², Barcol Hardness of 45 BHU, Tensile Modulus of 9000 MPa, Surface Resistivity of 1.6*10¹⁶ Ω, Volume Resistivity of 4.05*10¹³ Ω cm, Tensile Modulus of Elasticity 22918 N/mm², all as per ANSI 136.20 & BS EN 40-2-2004. Wind Speed sustainability to be minimum 180 KMPH, Flammability test which confirms to V0 rating of UL 94. Testing certificates from NABL or NABL accredited Labs. Pole to have neutral resin and adhesive during the winding process. Base Plate in GFRP material with minimum thickness of 16 mm. TUV Certification, Batch wise Test report, LOGO incorporation, inscribed 1.6 to 2 mm inside the Pole material. 3 Year Warranty against any manufacturing defects. as specified by Engineer Incharge.</p>		
52.	<p>Providing CNC Filament wound 11 m high (clear height) Flange Type Shockproof Glass Fibre Reinforced Polymer (GFRP) Conical Translucent pole manufactured using sophisticated multi axes Siemens controlled CNC filament winding machines using E Class Fibers having Glass content of 65 to 70 percent. Top OD 140 mm and Bottom OD 305 mm, tolerance +/- 1 mm, thickness of 8 mm throughout the length, with tolerance for length +/- 25 mm. and tolerance for overall thickness +/- 0.5 mm. Pole should be shockproof Poles to be finished on the outside with UV inhibitors in accordance with ASTM G 154, Izod Impact Strength of 80 k/Jm², Barcol Hardness of 45 BHU, Tensile Modulus of 9000 MPa, Surface Resistivity of 1.6*10¹⁶ Ω, Volume Resistivity of 4.05*10¹³ Ω cm, Tensile Modulus of Elasticity 22918 N/mm², all as per ANSI 136.20 & BS EN 40-2-2004. Wind Speed sustainability to be minimum 180 KMPH, Flammability test which confirms to V0 rating of UL 94. Testing certificates from NABL or NABL accredited Labs. Pole to have neutral resin and adhesive during the winding process. Base Plate in GFRP material with minimum thickness of 16 mm. TUV Certification, Batch wise Test report, LOGO incorporation, inscribed 1.6 to 2 mm inside the Pole material. 3 Year Warranty against any manufacturing defects. as specified by Engineer Incharge</p>	1	Each
53.	<p>Providing CNC Filament wound 12 m high (clear height) Flange Type Shockproof Glass Fibre Reinforced Polymer (GFRP) Conical Translucent pole manufactured using sophisticated multi axes Siemens controlled CNC filament winding machines using E Class Fibers having Glass content of 65 to 70 percent. Top OD 140 mm and Bottom OD 320 mm, tolerance +/- 1 mm, thickness of 8 mm throughout the length, with tolerance for length +/- 25 mm. and tolerance for overall thickness +/- 0.5 mm. Pole should be shockproof Poles to be finished on the outside with UV inhibitors in accordance with ASTM G 154, Izod Impact Strength of 80 k/Jm², Barcol Hardness of 45 BHU, Tensile Modulus of 9000 MPa, Surface Resistivity of 1.6*10¹⁶ Ω, Volume Resistivity of 4.05*10¹³ Ω cm, Tensile Modulus of Elasticity 22918 N/mm², all as per ANSI 136.20 & BS EN 40-2-2004. Wind Speed sustainability to be minimum 180 KMPH, Flammability test which confirms to V0 rating of UL 94. Testing certificates from NABL or NABL accredited Labs. Pole to have neutral resin and adhesive during the winding process. Base Plate in GFRP material with minimum thickness of 16 mm. TUV Certification, Batch wise Test report, LOGO incorporation, inscribed 1.6 to 2 mm inside the Pole material. 3 Year Warranty against any manufacturing defects. as specified by Engineer Incharge.</p>	1	Each

54.	<p>Providing CNC Filament wound 3 m clear height Flange Type Shockproof Glass Fibre Reinforced Polymer (GFRP) Square Designer pole manufactured using sophisticated multi axes Siemens controlled CNC filament winding machines using E Class Fibers having Glass content of 65 to 70 percent. Top 140 mm and Bottom 140 mm, tolerance +/- 1 mm, thickness of 6 mm throughout the length, with tolerance for length +/- 25 mm. and tolerance for overall thickness +/- 0.5 mm. Pole should be shockproof, to be finished on the outside with UV inhibitors in accordance with ASTM G 154, Izod Impact Strength of 80 k/Jm², Barcol Hardness of 45 BHU, Tensile Modulus of 9000 MPa, Surface Resistivity of 1.6*10¹⁶ Ω, Volume Resistivity of 4.05*10¹³ Ω cm, Tensile Modulus of Elasticity 22918 N/mm², all as per ANSI 136.20 & BS EN 40-2-2004. Wind Speed sustainability to be minimum 180 KMPH, Flammability test which confirms to V0 rating of UL 94. Testing certificates from NABL or NABL accredited Labs. Pole to have pigmented color during the winding process. TUV Certification, Batch wise Test report, LOGO incorporation, inscribed 1.6 to 2 mm inside the Pole material. Junction Box in ABS with hinge type Cover. 3 Year Warranty against any manufacturing defects.</p>	1	Each
55.	<p>Providing CNC Filament wound 4 m clear height Flange Type Shockproof Glass Fibre Reinforced Polymer (GFRP) Square Designer pole manufactured using sophisticated multi axes Siemens controlled CNC filament winding machines using E Class Fibers having Glass content of 65 to 70 percent. Top 140 mm and Bottom 140 mm, tolerance +/- 1 mm, thickness of 6 mm throughout the length, with tolerance for length +/- 25 mm. and tolerance for overall thickness +/- 0.5 mm. Pole should be shockproof, to be finished on the outside with UV inhibitors in accordance with ASTM G 154, Izod Impact Strength of 80 k/Jm², Barcol Hardness of 45 BHU, Tensile Modulus of 9000 MPa, Surface Resistivity of 1.6*10¹⁶ Ω, Volume Resistivity of 4.05*10¹³ Ω cm, Tensile Modulus of Elasticity 22918 N/mm², all as per ANSI 136.20 & BS EN 40-2-2004. Wind Speed sustainability to be minimum 180 KMPH, Flammability test which confirms to V0 rating of UL 94. Testing certificates from NABL or NABL accredited Labs. Pole to have pigmented color during the winding process. TUV Certification, Batch wise Test report, LOGO incorporation, inscribed 1.6 to 2 mm inside the Pole material. Junction Box in ABS with hinge type Cover. 3 Year Warranty against any manufacturing defects.</p>	1	Each
56.	<p>Providing CNC Filament wound 3 m high (clear height) Flange Type Shockproof Glass Fibre Reinforced Polymer (GFRP) Conical Designer pole manufactured using sophisticated multi axes Siemens controlled CNC filament winding machines using E Class Fibers having Glass content of 65 to 70 percent. Top OD 100 mm and Bottom OD 145 mm, tolerance +/- 1 mm, thickness of 6 mm throughout the length, with tolerance for length +/- 25 mm. and tolerance for overall thickness +/- 0.5 mm. Pole should be shockproof, to be finished on the outside with UV inhibitors in accordance with ASTM G 154, Izod Impact Strength of 80 k/Jm², Barcol Hardness of 45 BHU, Tensile Modulus of 9000 MPa, Surface Resistivity of 1.6*10¹⁶ Ω, Volume Resistivity of 4.05*10¹³ Ω cm, Tensile Modulus of Elasticity 22918 N/mm², all as per ANSI 136.20 & BS EN 40-2-2004. Wind Speed sustainability to be minimum 180 KMPH, Flammability test which confirms to V0 rating of UL 94. Testing certificates from NABL or NABL accredited Labs. Pole to have pigmented color during the winding process. Base Plate in GFRP material with minimum thickness of 16 mm. TUV Certification, Batch wise Test report, LOGO incorporation, inscribed 1.6 to 2 mm inside the Pole material. Junction Box in ABS with hinge type Cover. 3 Year Warranty against</p>	1	Each

	any manufacturing defects. as specified by Engineer Incharge.		
57.	Providing CNC Filament wound 4 m high (clear height) Flange Type Shockproof Glass Fibre Reinforced Polymer (GFRP) Conical Designer pole manufactured using sophisticated multi axes Siemens controlled CNC filament winding machines using E Class Fibers having Glass content of 65 to 70 percent. Top OD 100 mm and Bottom OD 165 mm, tolerance +/- 1 mm, thickness of 6 mm throughout the length, with tolerance for length +/- 25 mm. and tolerance for overall thickness +/- 0.5 mm. Pole should be shockproof, to be finished on the outside with UV inhibitors in accordance with ASTM G 154, Izod Impact Strength of 80 k/Jm ² , Barcol Hardness of 45 BHU, Tensile Modulus of 9000 MPa, Surface Resistivity of 1.6*10 ¹⁶ Ω, Volume Resistivity of 4.05*10 ¹³ Ω cm, Tensile Modulus of Elasticity 22918 N/mm ² , all as per ANSI 136.20 & BS EN 40-2-2004. Wind Speed sustainability to be minimum 180 KMPH, Flammability test which confirms to V0 rating of UL 94. Testing certificates from NABL or NABL accredited Labs. Pole to have pigmented color during the winding process. Base Plate in GFRP material with minimum thickness of 16 mm. TUV Certification, Batch wise Test report, LOGO incorporation, inscribed 1.6 to 2 mm inside the Pole material. Junction Box in ABS with hinge type Cover. 3 Year Warranty against any manufacturing defects. as specified by Engineer Incharge.	1	Each
58.	Providing CNC Filament wound 5 m high (clear height) Flange Type Shockproof Glass Fibre Reinforced Polymer (GFRP) Conical Designer pole manufactured using sophisticated multi axes Siemens controlled CNC filament winding machines using E Class Fibers having Glass content of 65 to 70 percent. Top OD 100 mm and Bottom OD 175 mm, tolerance +/- 1 mm, thickness of 6 mm throughout the length, with tolerance for length +/- 25 mm. and tolerance for overall thickness +/- 0.5 mm. Pole should be shockproof, to be finished on the outside with UV inhibitors in accordance with ASTM G 154, Izod Impact Strength of 80 k/Jm ² , Barcol Hardness of 45 BHU, Tensile Modulus of 9000 MPa, Surface Resistivity of 1.6*10 ¹⁶ Ω, Volume Resistivity of 4.05*10 ¹³ Ω cm, Tensile Modulus of Elasticity 22918 N/mm ² , all as per ANSI 136.20 & BS EN 40-2-2004. Wind Speed sustainability to be minimum 180 KMPH, Flammability test which confirms to V0 rating of UL 94. Testing certificates from NABL or NABL accredited Labs. Pole to have pigmented color during the winding process. Base Plate in GFRP material with minimum thickness of 16 mm. TUV Certification, Batch wise Test report, LOGO incorporation, inscribed 1.6 to 2 mm inside the Pole material. Junction Box in ABS with hinge type Cover. 3 Year Warranty against any manufacturing defects. as specified by Engineer Incharge.	1	Each
59.	Providing CNC Filament wound 6 m high (clear height) Flange Type Shockproof Glass Fibre Reinforced Polymer (GFRP) Conical Designer pole manufactured using sophisticated multi axes Siemens controlled CNC filament winding machines using E Class Fibers having Glass content of 65 to 70 percent. Top OD 100 mm and Bottom OD 200 mm, tolerance +/- 1 mm, thickness of 6 mm throughout the length, with tolerance for length +/- 25 mm. and tolerance for overall thickness +/- 0.5 mm. Pole should be shockproof, to be finished on the outside with UV inhibitors in accordance with ASTM G 154, Izod Impact Strength of 80 k/Jm ² , Barcol Hardness of 45 BHU, Tensile Modulus of 9000 MPa, Surface Resistivity of 1.6*10 ¹⁶ Ω, Volume Resistivity of 4.05*10 ¹³ Ω cm, Tensile Modulus of Elasticity 22918 N/mm ² , all as per ANSI 136.20 & BS EN 40-2-2004. Wind Speed sustainability to be minimum 180 KMPH, Flammability test which confirms to V0 rating of UL 94. Testing certificates from NABL or NABL accredited	1	Each

	Labs. Pole to have pigmented color during the winding process. Base Plate in GFRP material with minimum thickness of 16 mm. TUV Certification, Batch wise Test report, LOGO incorporation, inscribed 1.6 to 2 mm inside the Pole material. Junction Box in ABS with hinge type Cover. 3 Year Warranty against any manufacturing defects. as specified by Engineer Incharge.		
60.	Providing CNC Filament wound 7 m high (clear height) Flange Type Shockproof Glass Fibre Reinforced Polymer (GFRP) Conical Designer pole manufactured using sophisticated multi axes Siemens controlled CNC filament winding machines using E Class Fibers having Glass content of 65 to 70 percent. Top OD 105 mm and Bottom OD 215 mm, tolerance +/- 1 mm, thickness of 8 mm throughout the length, with tolerance for length +/- 25 mm. and tolerance for overall thickness +/- 0.5 mm. Pole should be shockproof, to be finished on the outside with UV inhibitors in accordance with ASTM G 154, Izod Impact Strength of 80 k/Jm ² , Barcol Hardness of 45 BHU, Tensile Modulus of 9000 MPa, Surface Resistivity of 1.6*10 ¹⁶ Ω, Volume Resistivity of 4.05*10 ¹³ Ω cm, Tensile Modulus of Elasticity 22918 N/mm ² , all as per ANSI 136.20 & BS EN 40-2-2004. Wind Speed sustainability to be minimum 180 KMPH, Flammability test which confirms to V0 rating of UL 94. Testing certificates from NABL or NABL accredited Labs. Pole to have pigmented color during the winding process. Base Plate in GFRP material with minimum thickness of 16 mm. TUV Certification, Batch wise Test report, LOGO incorporation, inscribed 1.6 to 2 mm inside the Pole material. Junction Box in ABS with hinge type Cover. 3 Year Warranty against any manufacturing defects. as specified by Engineer Incharge.	1	Each
61.	Providing CNC Filament wound 8 m high (clear height) Flange Type Shockproof Glass Fibre Reinforced Polymer (GFRP) Conical Designer pole manufactured using sophisticated multi axes Siemens controlled CNC filament winding machines using E Class Fibers having Glass content of 65 to 70 percent. Top OD 105 mm and Bottom OD 230 mm, tolerance +/- 1 mm, thickness of 8 mm throughout the length, with tolerance for length +/- 25 mm. and tolerance for overall thickness +/- 0.5 mm. Pole should be shockproof, to be finished on the outside with UV inhibitors in accordance with ASTM G 154, Izod Impact Strength of 80 k/Jm ² , Barcol Hardness of 45 BHU, Tensile Modulus of 9000 MPa, Surface Resistivity of 1.6*10 ¹⁶ Ω, Volume Resistivity of 4.05*10 ¹³ Ω cm, Tensile Modulus of Elasticity 22918 N/mm ² , all as per ANSI 136.20 & BS EN 40-2-2004. Wind Speed sustainability to be minimum 180 KMPH, Flammability test which confirms to V0 rating of UL 94. Testing certificates from NABL or NABL accredited Labs. Pole to have pigmented color during the winding process. Base Plate in GFRP material with minimum thickness of 16 mm. TUV Certification, Batch wise Test report, LOGO incorporation, inscribed 1.6 to 2 mm inside the Pole material. Junction Box in ABS with hinge type Cover. 3 Year Warranty against any manufacturing defects. as specified by Engineer Incharge.	1	Each
62.	Providing CNC Filament wound 9 m high (clear height) Flange Type Shockproof Glass Fibre Reinforced Polymer (GFRP) Conical Designer pole manufactured using sophisticated multi axes Siemens controlled CNC filament winding machines using E Class Fibers having Glass content of 65 to 70 percent. Top OD 110 mm and Bottom OD 240 mm, tolerance +/- 1 mm, thickness of 8 mm throughout the length, with tolerance for length +/- 25 mm. and tolerance for overall thickness +/- 0.5 mm. Pole should be shockproof, to be finished on the outside with UV inhibitors in accordance with ASTM G 154, Izod Impact Strength of 80 k/Jm ² , Barcol Hardness of 45 BHU, Tensile Modulus of 9000 MPa, Surface Resistivity of 1.6*10 ¹⁶ Ω, Volume Resistivity of 4.05*10 ¹³ Ω cm, Tensile Modulus of Elasticity 22918	1	Each

	N/mm ² , all as per ANSI 136.20 & BS EN 40-2-2004. Wind Speed sustainability to be minimum 180 KMPH, Flammability test which confirms to V0 rating of UL 94. Testing certificates from NABL or NABL accredited Labs. Pole to have pigmented color during the winding process. Base Plate in GFRP material with minimum thickness of 16 mm. TUV Certification, Batch wise Test report, LOGO incorporation, inscribed 1.6 to 2 mm inside the Pole material. Junction Box in ABS with hinge type Cover. 3 Year Warranty against any manufacturing defects. as specified by Engineer Incharge.		
63.	Providing Shockproof E Class Glass Fibre Reinforced Polymer (GFRP) 1000 mm Single Arm bracket with height of Adaptor 300 mm having thickness 5 mm, Arm thickness is 5 mm, Arm OD 45 mm, Stiffener thickness 10 mm and Load bearing capacity is 30 Kgs. Testing certificates from NABL or NABL accredited Labs.	1	Each
64.	Providing Shockproof Glass Fibre Reinforced Polymer (GFRP) 1000 mm Double Arm bracket with height of Adaptor 300 mm having thickness 5 mm, Arm thickness is 5 mm, Arm OD 45 mm, Stiffener thickness 10 mm and Load bearing capacity is 30 Kgs. Testing certificates from NABL or NABL accredited Labs.	1	Each
65.	Providing Shockproof Glass Fibre Reinforced Polymer (GFRP) 600 mm Diameter Ring Type Arm for multidirectional illumination. The metal ring is meticulously coated with a high-quality epoxy resin along with E Class Fibre ensuring structural integrity and longevity. Testing certificates from NABL or NABL accredited Labs.	1	Each
66.	SITC of architecture LED Post Top Lamp suitable for indirect light for Landscape Lighting, Housing to be made in pressure die-cast Aluminium / Spun Aluminum powder coated with color coated as per desired color. To ensure proper heat dissipation on the body, stability and long lifespan of LED Light more than 50000 burning hours, Optical lens/Reflector for proper light distribution, Lampshade adopts high strength Polycarbonate Cover, resist the impact and friction. High brightness COB/SMD LED light source, LED Make: Philips/OSRAM/NICHIA/BRIDGELUX/CITIZEN/CREE/SEOUL, high flux output, excellent consistency of light color. Highly reliable constant voltage inbuilt LED Driver, Suitable for outdoor use with having IP66 with ingress protection, IK08 impact resistance, Wattage : 60W, Outer diameter of the luminaire not to exceed 400mm, & height should be 360mm, Pole OD 60mm Input, Voltage : AC 165-260V, Color Temperature : 3000K/4000K/5700K, Power Efficiency : >85%, housing color : Dark grey / black, Operating Temperature : -10°C to +55°C, Operating Humidity : 10%-90%, BIS Certificate to be submitted at the time of bid.	1	Each

अटी व शर्ती :-

- सीलबंद दरपत्रके दिनांक- ०६/०२/२०२६ ते दि. १३/०२/२०२६ रोजीपर्यंत दुपारी ३.०० वाजेपर्यंत पनवेल महानगरपालिकेच्या विद्युत विभागात किंवा pmcelectrical१२३@gmail.com या ई-मेलवर स्वीकारण्यात येतील.
- सदरचे दरपत्रक हे अंदाजपत्रक बनविण्यासाठी असून सदर कामांवर Manufacturer/Dealer/Contractor चा दावा (Claim) असणार नाही.
- Manufacturer/Dealer/Contractor ने दिलेले दरपत्रक स्विकारणाचे सर्व अधिकार पनवेल महानगरपालिकेकडे असतील याची नोंद घ्यावी.



शहर अभियंता

पनवेल महानगरपालिका

प्रत माहितीस्तव :- माहिती फलककरीता