



पनवेल महानगरपालिका

ता. पनवेल जि. रायगड

कार्यालय- आयुक्त मुख्यालय, २ रा मजला, देवाळे तलाव समोर,
गोखले हॉलच्या शेजारी, पनवेल- ४१०२०६
दुरध्वनी क्र. ०२२-७४५८०४०/४१/४२
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जा.क्र. पमपा/विद्युत/१९२३/प्र.क्र.१४३/१७२/२०२३

दिनांक-१२/१०/२०२३

जाहिर सूचना

मा. आयुक्त, पनवेल महानगरपालिका यांच्या वतीने विद्युत विभागातील खालील नमुद कामाचे अंदाजपत्रक बनविण्याकरीता संबंधित Manufacturer/Dealer/Contractor कडून विद्युत विषयक व बांधकामाच्या बाबींचे दर मागविणे. कामाचे नाव-

१. पनवेल महानगरपालिका क्षेत्रातील रोडपाली म्हसोबा तलाव व खारघर कामधेनु समोरील तलाव विद्युत व्यवस्थेसह विकसीत करणे.
२. पनवेल महानगरपालिका क्षेत्रातील खारघर येथील कोपरा तलाव व गार्डन परिसर विद्युत व्यवस्थेसह विकसीत करणे.
३. पनवेल महानगरपालिका क्षेत्रातील पनवेल शहरातील खादेश्वर तलाव, कामाठे येथील शंकर मंदिर तलाव विद्युत व्यवस्थेसह विकसीत करणे.
४. पनवेल महानगरपालिका क्षेत्रातील पनवेल शहरातील देवाळे तलाव व लेंडाळे तलाव विद्युत व्यवस्थेसह विकसीत करणे.
५. पाणीपुरवठा व्यवस्थेचे बळकटीकरण अंतर्गत पनवेल महानगरपालिका कार्यक्षेत्रातील विंधन विहिरीना वीज बचतीची आणि अखंड वीज पुरवठ्याची सुविधा निर्माण करणे.
६. मलनिःस्सारण व्यवस्थेचे बळकटीकरणे अंतर्गत पनवेल महानगरपालिका क्षेत्रातील विविध मलउत्सर्जन केंद्राकरीता पंप बसविणे
७. पनवेल महानगरपालिका पाणीपुरवठा करणारे देहरंग धरण येथे पाणीपुरवठा व्यवस्थेचे बळकटीकरण अंतर्गत वीज व्यवस्था अखंडित राहण्यासाठी सोलार ऑफग्रीड इन्व्हर्टर सिस्टिम व इतर अनुषंगिक कामे करणे.
८. पनवेल महानगरपालिका हद्दीत विविध ठिकाणी सौर उर्जेवर आधारीत पथदिवे बसविणे.
९. पनवेल महानगरपालिका क्षेत्रातील रस्त्याचे रुंदीकरण व नुतनीकरण करताना अडथळा निर्माण करणारे महावितरण कंपनीचे विद्युत खांब, विद्युत वाहिन्या स्थलांतरीत करणे व नवीन वीज पुरवठा घेणे कामी विद्युत व्यवस्थेची उभारणी करीता LT/HT लाईन व डिस्ट्रीब्युशन ट्रान्सफॉर्मर स्थापित करण्याच कामे करणे कामी दोन वर्षाकरीता विद्युत साहित्याचे दर निश्चित करणे बाबत.

अ.क्र.	कामाचे तपशिल	परिमाण	युनिट	कालावधी
१.	Supplying and erecting 12.5 m (clear height) manually operated high-mast (Top -150mm, Bottom- 360mm) hot dipped galvanized material with average minimum thickness 65 micron, made from high tensile structure grade steel as per BSEN - 10025 S 355/E350 & 3mm thickness, with base plate 25 mm thick x OD 560 mm grade as per IS-2062, pole made in single section & submerge arc welded, with manual arrangement for Lowering & raising the lantern carriage, wire rope stainless steel 316 grade 2 nos., 7x19 construction 5mm, SG-DG U clamps, double drum with assembly 300 kg, 5x2.5 Sq.mm. flexible copper cable with lantern carriage assembly suitable for max. 06 nos. luminaires and its control gear box, lightning arrester, arrangement for fixing aviation light, high-mast with serial number, factory inspection report/test report of high-mast should be provided	१	Each	

	as per specifications on provided foundation J type stud/bolts with necessary accessories complete (excluding luminaries).		
२.	Supplying, erecting & commissioning of all-in-one integrated LED solar light fitting Min. 64-67W IP65 & IK08 class having single highly efficient LM6 Pressure die Cast / Extruded Al Housing with Proper OEM Brand Name Embossment for ensuring quality, with mid power white dimmable LEDs having system lumens output of Min. 12000 Lumens with LM79 Report from own NABL Accredited Lab, min. efficacy of Minimum 185 Lumens / Watts at System level after all losses, CRI>70, CCT upto 5700 K, Life class of 50,000 Hrs. at L70B50. The Solar Cell shall be made of Premium grade mono crystalline silicon Cell. The luminaire shall have a smart self-diagnosis feature with LED indicators for battery charging, deep discharge and Load cut off indication visible from ground in day light. Solar Panel minimum 112 Wp PV/ Battery Sizing at least 24 AH Life Po4 25.6 VDC for 2 nights to be design with dimming profile based on Load Wattage, Battery & Panel sizing calculation to be submitted. Rechargeable Lithium Ferro Phosphate (LiFePo4) Battery Pack with highly efficient, integrated microprocessor based MPPT charge controller with driver mounted on the same board to minimize power loss with 5 Years warranty as per specification. Product overall Dimensions should be optimizes to 875 mm X 665mm X 95 mm to ensure proper load managemnet on the Highmast.	१	Each
३.	The Dewatering Mobile unit with auto prime arrangement of Kirlosker make APM/150/24, 24HP,150x150mm, 250m3 discharge suitable for 10 to 15 mtr head, Including suction and delivery flexible pipe of length 10mtr, 30 mtr respectively. The attacement shall be diesel engine driven unit, trolley mounted for easy access to move from one lcation to another with necessary hose pipe and fitting.	१	Each
४.	The Dewatering Mobile unit with auto prime arrangement of Kirlosker make APM 250/27, 32HP, 300x250mm, 300m3 discharge suitable for 10 to 15 mtr Head, Including suction and delivery flexibile pipe of length 10mtr, 30 mtr respectively. The attacement shall be diesel engine driven unit, trolley mounted for easy access to move from one location to another with necessary hose pipe and fitting.	१	Each

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4.	The Dewatering Mobile unit with auto prime arrangement of Kirlosker make APM 250/33, 43HP to 72 HP, 300x250mm, 600m3 discharge suitable for 10 to 15 mtr Head, Including suction and delivery flexible pipe of length 10mtr, 30 mtr respectively. The attachment shall be diesel engine driven unit, trolley mounted for easy access to move from one location to another with necessary hose pipe and fitting.	?	Each
5.	Scheme information painting on MS Grill Door Like Name of Work, Estimated Amount, Name of Agency, etc. as per office instructions complete	?	Lump sum
6.	Supply of Programmable homogenous dot free linear light. Material should be made of Silicon with aluminium extrusion linear profile/clamps and other connecting accessories. Wattage should be minimum: 18W/m. Homogenous linear light should be minimum 16mm thick, Rated input supply of DC 24V with external power supply. Light output color should be Digital RGB with having minimum 8 integrated IC/meter inbuilt in the linear light, LED Make : Cree / Osram / Nichia / Lumileds / Seoul, The luminaire should have optics : 120 Degree, Mean rated service life L70(tq 25 °C) = 50,000 h. :Ingress protection rating (DIN EN 60529): IP67, BIS certified mandatory. MAKE : VIN LED / SGM / IGGUZINI / DISANO	?	Rmt
7.	SITC of Static Warm White LED Linear Light. Material should be made of Silicon with aluminium extrusion linear profile/clamps and other connecting accessories. Wattage should be minimum: 14W/m. Homogenous linear light should be minimum 16mm thick, Rated input supply of DC 24V with external power supply. Light output color should be Warm White with 2700-3000K, LED Make : Cree / Osram / Nichia / Lumileds / Seoul, The luminaire should have optics : 120 Degree, Mean rated service life L70(tq 25 °C) = 50,000 h. :Ingress protection rating (DIN EN 60529): IP67, Homogenous Linear Light should be installed in Aluminium Channel using mounting brackets /fasteners on wall surface. BIS certificate needs to be submitted at the time of bid. MAKE : VIN LED / SGM / IGGUZINI / DISANO	?	Rmt
8.	SITC of DMX Controller System including Master and Slave Controller having following features : The system should support 150,000 points in offline, The system should support automatic, regular, preset programs play, The controller should equipped with keys and External Remote Control; the episode selection, overall brightness adjustment, white balance adjustment and playback speed adjustment etc, it should be support offline one key fixed; clearing sub-controller ID number; it is convenient to use on field. Controller should	?	Job

	support switch parallel program; reduce system cascade chain length; improve stability, Support four-color lighting: energy saving, environmental and pure color, Adopt Ethernet interface and UDP network protocol, the maximum transmission distance is 100 meters, The controller should have LCD display module to timely display the controller parameters and status. SD card storage, support maximum 32G, preset maximum 255 program files, The built-in animation test program may help customer to debug and apply in project. Master Controller and Slave Controllers should be installed in IP65 Junction box		
१०.	SITC of Constant Voltage DC24V 350W LED driver having following features : AC input range selectable by switch, Withstand 300VAC surge input for 5 second, Protection - Short Circuit/Overload/Over Voltage/Over temperature, Forced air cooling by built-in DC fan, Built-in cooling Fan ON-OFF control, 1U low profile, withstand 5G vibration test, LED indicator for power on, High efficiency, long life and high reliability, Make : Meanwell	१	Nos.
११	SITC of Surface Mounted 6W LED Round Spot Light suitable for Outdoor Lighting. Rated input supply of DC 24V with external power supply should be provided with LED Lights. Light colour WW : 2700-3000K, LED Make : CREE / LUMINOUS / OSRAM / SEOUL / SAMSUNG / CITIZEN. Mean rated service life L70 (to 25 °C) = 50,000 hours. Luminaire luminous flux range 330-360 Lm. Housing should be aluminium die-cast construction with powder-coated finish having glass cover on front, optical lens for proper light throw. IP protection rating : IP65, The luminaire should have beam angle : 15°/25°/45°. Operating Temperature : 10°C to +45°C. LED Spot Light should be installed on L-Shape powder coated MS Brackets on wall surface. BIS certificate needs to be submitted at the time of bid. MAKE : VIN LED / SGM / IGGUZINI / DISANO	१	Nos.
१२	SITC of Image Projector Light made up of Die Casting Magnesium Alloy and matt black finish Ingress protection rating (DIN EN 60529): IP65 . Power consumption of the image projector should be minimum 100W, LED Light source : 90W White LED with having 1989 lumen output, Driver current rating : 6.3A, The projector should have OLED display, The projector should have built-in facility such as Cooling Mode : Convection + Fan, Input Voltage : 100-240V AC,50-60Hz, The projector should have dimming facility ranging from 0-100%, Projector to provided with minimum 7 numbers of rotating gobos with decorative patterns and inbuilt auto controller. LED Make : EPISTAR / CITIZEN / OSRAM / SEOUL/BRIDGELUX, Ingress protection rating (DIN EN 60529): IP65. Image projector	१	Nos.

	should be installed with suitable brackets arrangement. MAKE : VIN LED / SGM / IGGUZINI / DISANO		
१३.	SITC of Color Changing RGBW LED Flood light with safety guage box suitable for multi-color illumination of trees, having aluminum die cast housing with powder coated finish, aluminum mounting bracket , front clear toughened glass cover, power consumption max. 120W, LED Make : CREE/OSRAM/SEOUL SEMICONDUCTORS/LUMINOUS/SAMSUNG, input voltage: DC24V, Light color: RGBW, high efficiency optics with beam angle: 15 deg/ 30 deg/45 deg/10X65 deg, minimum total luminous flux: 4200 lm , Ingress Protection: IP66, Lumen maintenance for 50000 hrs at L70. BIS certificate needs to be submitted at the time of bid. MAKE : VIN LED / SGM / IGGUZINI / DISANO	१	Nos.
१४.	SITC of A multi-functional RF LED controller, uses advanced PWM control technique, built-in different kinds of color changing modes, smooth changing effect without flicker, PC engineering plastic shell.It has function keys for on/off, pause, mode change, speed change and brightness adjust. 12-24V wide voltage input, 3-channel output, Max. current load: 6A X 3CH, Radio frequency: 433 MHz., Compatible with RF remote within a range of 30m distance, RF Controller should be installed in IP65 Junction Box as per approved circuit drawing.	१	Nos.
१५.	SITC of 4-channel power repeater, accepts PWM control, input voltage: 5- 24VDC, Input signal: PWM (200-2000Hz), Max. load: 5A x3CH, Power repeater should be installed in IP65 Junction Box as per approved circuit drawing.	१	Nos.
१६.	SITC of Constant Voltage DC24V 350W LED driver having following features : AC input range selectable by switch, Withstand 300VAC surge input for 5 second, Protection - Short Circuit/Overload/Over Voltage/Over temperature, Forced air cooling by built-in DC fan, Built-in cooling Fan ON-OFF control, 1U low profile, withstand 5G vibration test, LED indicator for power on, High efficiency, long life and high reliability, Make : Meanwell	१	Nos.
१७.	Touch-up painting work of existing tree at front of the entrance gate	१	Job
१८.	SITC of artistic floral form to be made of special grade polymer so that uniform glow of the desired colour is achieved from the surface of the polymer. The polymer to be formed in the desired artistic shape of Rose of various colours . This should be artistically installed to create glow and aesthetics to these unique elements of nature. These floral forms to be illuminated using special LED lights embedded inside the polymer to provide effective and natural	१	Nos.

	looking glow. Size of the floral form should have height 0.7 meter and diameter 80 mm, Floral elements should be installed using suitable mounting arrangement, Floral elements should be provided with IP67 constant voltage DC24V LED Driver. MAKE : VIN LED / SGM / IGGUZINI / DISANO		
१९.	SITC of round shape embedded effects engine delivers interactive touch lighting for outdoor use. System to create interactive experiences that are defined from a set of simple colours palettes with sensors. Housing should be made in stainless steel/ABS frame and toughened glass cover on top, touch panel should have following technical features : High brightness RGB LEDs, capacitive motion / proximity sensors and Built-in programmable interactive effects engine and complete with required power supply. Suitable for completely outdoor use with having IP65 ingress protection. Size of an interactive touch panel should be dia 500 mm embedded inside the ground. Interactive Lights should be provided with constant voltage DC24V LED Driver. MAKE : VIN LED / SGM / IGGUZINI / DISANO	१	Nos.
२०.	Supply and erection of civil work for concrete foundation in circular shape for the installation of interactive floor lights, Cables should be hide inside the foundation base. Circular foundation should be cover with artificial grass. Interactive floor lights should be flush to the foundation level	१	Job
२१.	SITC of Selfie Point made in ACP sheet of 3 mm thickness with embellishment of the desired colour. This artistic element should have artistic shape of spread feathers of width 9 feet in the desired colour material. Centre point stand to be given for ease of visitor to take desired selfies. Homogeneous tube made with LED light to be used to embellish the wings of the selfie point. Height of the structure to be 6 feet. Structure to be of suitable strength so that it can stand on its own. Structure to be fixed on strong civil foundation at the bottom as per site suitability. Selfie Point should be provided with constant voltage DC24V LED Driver. MAKE : VIN LED / SGM / IGGUZINI / DISANO	१	Nos.
२२.	SITC of artistic floral form to be made in PMMA sheet of 3 mm thickness shaped to form desired Illuminated Artificial Rose Flower. Bottom to be in metal circular section. Leaves to be thermally formed in green colour. Flower to be illuminated using LED light source 9W-10W. Size of the floral form should have height 1 to 1.5 meter and width proportionate. MAKE : VIN LED / SGM / IGGUZINI / DISANO	१	Nos.
२३.	SITC of Protective fencing to be made in either wooden / FRP / metal to avoid public access to the area. Height of the fencing to be minimum 600 mm.	१	Nos.

२४.	SITC of LED illuminated Bench made up of Rotational moulded polyethylene diffuser and weather-proof. Aesthetically designed to suit outdoor environment. Wattage of the luminaire should be 30W-40W, Input Voltage : AC DC 12V/ DC 24V, Mean rated service life L70(tq 25 °C) = 50,000 h. LED Make : EPISTAR / CREE / OSRAM / SEOUL, ingress protection rating (DIN EN 60529): IP65. LED Bench should be provided with constant voltage DC24V IP67 LED Driver. MAKE : VIN LED / SGM / IGGUZINI / DISANO	१	Nos.
२५.	SITC of artistic Ship form to be made in translucent polymer of special grade so that uniform glow of the desired colour is achieved from the surface of the polymer. The polymer to be sculpted/formed in the desired Ship Seating shaped public lighting fixture . This should artistically be installed in a form to create glow and aesthetics to these unique elements of nature. These Sculptures forms to be illuminated using special looped LED lights embedded inside the polymer to provide effective and natural looking glow to the Ship form. Size of the structure should have L1500 x W600 x H400mm, Ship form should be provided with constant voltage DC24V IP67 LED Driver. MAKE : VIN LED / SGM / IGGUZINI / DISANO	१	Nos.
२६.	SITC of Static Color LED Flood light suitable for trees illumination having aluminum die cast housing with powder coated finish, aluminum mounting bracket, front toughened clear glass cover, power consumption max. 120W, LED Make : CREE/OSRAM/SEOUL SEMICONDUCTORS/LUMINOUS/SAMSUNG, with inbuilt constant current LED driver, driver efficiency: >85%, power factor>0.9, input voltage range: 180-265VAC, Light color: Green/Warm White/Yellow, minimum total luminous flux: 4200 lm, high efficiency secondary optics with beam angle: 15 deg/30 deg/45 deg/10 X65 deg/120 deg, Lumen maintenance for 50000 hrs at L70. Housing to have adjustable base bracket for angle adjustment so that the light direction can be adjusted to illuminate desired structural elements. BIS certificate need to be submitted at the time of bid. MAKE : VIN LED / SGM / IGGUZINI / DISANO	१	Nos.
२७.	SITC of Main LT Panel: Three phase outdoor type lighting panel, pre-wired and ready to use, manufactured by an ISO9001 certified company. It should have following specifications: Material: Outdoor type Panel with canopy Including standing arrangement, dust and vermin proof complete with hinged and double door with lockable arrangement made from 2 mm thick CRCA sheet steel, The panel shall be given one coat of red oxide primer and two coats of enamel paints. powder coated with off white color (inside & outside) Incomer: 160 A 4P 415V MCCB 36KA(TM-R) with Direct ROM with Spreader	१	

	<p>Terminal, ON Load Change Over Switch: 160 A 4P 415V, Contactor Rating: 160 A 4P, Timer Type: Astronomical Timer, Surge Protection Device: 40kA Type II (3P+N), Feeder 1 Outgoing: 100A 4P 415V MCCB 25kA(TM-R) with Direct ROM with Spreader Terminal =02 nos., Feeder 2 Outgoing: 63A 4P 415V MCCB 25kA(TM-R) with Direct ROM with Spreader Terminal =02 nos.,with 30 KWH 3phase energy meter and multi functional meter, Indicating Lamp: RYB LED lamp with 6 Amps C Series SP MCB back up, Auto/Manual Switch: Three Position Type, Busbar Type: Three phase, 4 wire Electrolytic high conductivity Copper three phase and neutral busbars rated at 300 Ampere insulated with heat shrinkable colored PVC sleeves & clip on shrouds for joints, Earth bus arrangement on panel: 1no.earth Copper stud on each side face, Ingress protection: IP65</p>		Nos.
26.	<p>SITC of Lighting Control Panel: Three phase outdoor type lighting panel, pre-wired and ready to use, manufactured by an ISO9001 certified company. It should have following specifications: Material: Outdoor type Panel with canopy Including standing arrangement, dust and vermin proof complete with hinged and double door with lockable arrangement made from 2 mm thick CRCA sheet steel, The panel shall be given one coat of red oxide primer and two coats of enamel paints. powder coated with off white color (inside & outside), Incomer: 100A 4P 415V MCCB 25KA(TM-R) with Direct ROM with Spreader Terminal, Contactor Rating: 100A 4P, Timer Type: Astronomical Timer, Surge Protection Device: 40kA Type II (3P+N), Outgoing 1: 25A 4P 415V MCCB 18kA(TM-R) with Direct ROM with Spreader Terminal, Outgoing 2: 25A 4P 415V MCCB 18kA(TM-R) with Direct ROM with Spreader Terminal, Outgoing 3: 25A 4P 415V MCCB 18kA(TM-R) with Direct ROM with Spreader Terminal, Outgoing 4: 25A 4P 415V MCCB 18kA Out going 5 : 25 Amp.4P MCCB (Spare) Outgoing 6: 25 Amp. 4P MCCB ,Outgoing 7: 25 Amp.4P MCB ,Outgoing 8:25 Amp. 4P MCB (TM-R) with Direct ROM with Spreader Terminal, Indicating Lamp: RYB LED lamp with 6 Amps C Series SP MCB back up, Auto/Manual Switch: Three Position Type, Busbar Type: Three phase, 4 wire Electrolytic high conductivity Copper three phase and neutral busbars rated at 160 Ampere insulated with heat shrinkable colored PVC sleeves & clip on shrouds for joints, Earth bus arrangement on panel: 1no.earth Copper stud on each side face, Ingress protection: IP65</p>	2	Nos.
29.	<p>SITC of 5-core 2.5 sq mm XLPE insulated PVC sheathed flexible copper cable complete with gland,lugs and mounting clamps</p>	2	Rmt

३०.	SITC of Single core 2.5 sq mm PVC+XLPE double insulated flexible copper wires	१	Rmt
३१.	SITC of Outdoor rated CAT6 cable 24AWG/23AWG, 4 pairs, STP, with solid copper conductors Make: D-link/Polycab/Belden	१	Rmt
३२.	SITC 300 X 75 mm GI Perforated cable tray with all accessories.	१	Rmt
३३.	SITC of Metal junction box suitable for outdoor installation, made of MS, powder coated, IP65, Size: 48 inch X 36 inch X 8 inch	१	Nos.
३४.	SITC of Metal junction box suitable for outdoor installation, made of MS, powder coated, IP65, Size: 36 inch X 36 inch X 8 inch	१	Nos.
३५.	SITC of TPN 4-bolt type Bakelite connector 100A	१	Nos.
३६.	Excavation & Backfilling of soft soil	१	Cum
३७.	Excavation & reinstatement for hard PCC, solling or bitumin road	१	Cum
३८.	Coordination with MSEDCL/PWD/MSRDC/EI obtaining scheme sanction and release of power supply. Preparation of schematic & detailed drawings as required by statutory authority and submission of the same in required sets to the statutory authority on behalf of PMC, obtaining the approval for commencement and commissioning of the work. Coordinating with authority for the site visit, and submission of its as built drawings in 3 sets in hard and soft copy.	१	Job
३९.	Designing, supply, Installation and commissioning of SPV water pump system with required accessories like PV Module and AC motor of 1 HP with power controller	१	Each
४०	Designing, supply, Installation and commissioning of SPV water pump system with required accessories like PV Module and AC motor of 3 HP with power controller	१	Each
४१	Designing, supply, Installation and commissioning of SPV water pump system with required accessories like PV Module and AC motor of 2 HP with power controller	१	Each
४२	Designing, supply, Installation and commissioning of SPV water pump system with required accessories like PV Module and AC motor of 5 HP with power controller	१	Each
४३	Designing, supply, Installation and commissioning of SPV water pump system with required accessories like PV Module and AC motor of 7.5 HP with power controller	१	Each
४४	Designing, supply, Installation and commissioning of SPV water pump system with required accessories like PV Module and AC motor of 10 HP with power controller	१	Each
४५	SITC of Decorative Entrance Gate as per approved design, Size of the entry gate should be minimum 5.5 meters length x 3.5 meters height. Entrance gate should be made by glass reinforced plastic or glass	१	

	fiber reinforced plastic with supporting MS frame Structure made of I Sections or C Channels & L Angles as per approved drawing. Entrance gate should be illuminated with Color changing external LED Lights. Entry gate should have excellent corrosion resistant properties. It should resist attack from numerous corrosive process fluids, acids, bases, salt water, concrete, sunlight, and atmospheric conditions. Special resins and fibers Should be utilized in FRP gate construction. Shree Ganesh idols should be embossed on gate structure. Gate structure should be high strength to weight ratio.		Set
४६	Supply and erection of civil work as per approved drawing for the installation of Entry Gate	१	Job
४७	SITC of artistic animal form to be made in translucent polymer of special grade so that uniform glow of the desired colour is achieved from the surface of the polymer. The polymer to be sculpted/formed in the desired artistic shape of illuminated elephant shaped sculpture . This should artistically be installed in a form to create glow and aesthetics to these unique elements of nature. Elephant sculpture forms to be illuminated using special looped LED lights embedded inside the polymer to provide effective and natural looking glow to the animal form. Height of the Elephant sculpture should be minimum 6ft. DC24V IP67 LED Driver should be provided seperately for each animal. Each animal should be installed on concrete base structure using anchor bolt.MAKE : VIN LED / SGM / IGGUZINI / DISANO	१	Nos.
४८	SITC of Protective fencing to be made in either wooden / FRP / metal to avoid public access to the area. Height of the fencing to be minimum 600 mm. Protective Fencing should be installed using anchor bolt. MAKE : VIN LED / SGM / IGGUZINI / DISANO	१	Rmt
४९	SITC of Decorative 2-way display lights on elephant theme. Frame body made of metal iron with silicon based LED lighting, Size : 1.2M x 0.8M. Input Voltage Range : AC220V/DC24V (with external driver). LED Make : EPISTAR / CREE / OSRAM / SEOUL, Ingress protection rating : IP65, Wattage : 8-10 W/m Visibility of the display should be in front & back side of the road. Light output color as per approved design and complete with mounting accessories etc complete. Decorative display light should be installed using MS brackets/fasteners on wall surface. MAKE : VIN LED / SGM / IGGUZINI / DISANO	१	Nos.
५०	SITC of backlit logo made of 3 mm pvd coated ACP or Aluminium 1 mm on sides & bottom and 5 mm 040 pmma acrylic of Mitsubishi Shinkolite/Sabic /Plexiglas in the front. Illuminated by Ultra Bright LED modules made of Aluminium PCB and PC Lens LED's should have wide beam angle in range of 140-	१	

	160 degree with uniform illumination, LED make Nichia/ Osram/ Lumiled/Citizen/Samsung/Seoul. Ingress protection rating (DIN EN 60529): IP65 and complete with required water proof drivers. Size of the logo should be 37.5" x 30" with suitable mounting arrangement. DC12/24V IP67 LED Driver should be provided with backlit logo. Logo should be installed using MS brackets/fasteners on wall surface as per site requirement. MAKE : VIN LED / SGM / IGGUZINI / DISANO		Set
५२	SITC of 'GANESH TALAO' marathi letters made of 3 mm pvdf coated ACP or Aluminium 1 mm on sides & bottom and 5 mm 040 pmma acrylic of Mitsubishi Shinkolite/Sabic /Plexiglas in the front. Illuminated by Ultra Bright LED modules made of Aluminium PCB and PC Lens LED's should have wide beam angle in range of 140-160 degree with uniform illumination, LED make Nichia/ Osram/ Lumiled/Citizen/Samsung/Seoul. ingress protection rating (DIN EN 60529): IP65 and complete with required water proof drivers. Total length of the signage should be 9 feet with 10 inch letters height and suitable mounting arrangement. DC12/24V IP67 LED Driver should be provided with backlit letters. It should be installed using MS brackets/fasteners on wall surface as per site requirement. MAKE : VIN LED / SGM / IGGUZINI / DISANO	?	Set
५३	SITC of Color Changing Surface-mounted Linear Flood Light suitable for facade Lighting. Luminaire luminous flux range 1750-2000 Lm, Luminaire wattage should be 50W. Luminaire should Controlled through DMX/Ethernet protocol Controller. Rated input supply at DC24V constant voltage with external power supply. Light colour RGBW, LED Make : CREE / LUMINOUS / OSRAM / SEOUL / SAMSUNG. The luminaire should have optics : 30° / 45° / 60° / 15°x45° / 10°x60° or as per site condition. Mean rated service life L70(tq 25 °C) = 50,000 h. Luminaire body of aluminium extruded with glass cover. Luminaire size should not exceed to 300 x 150 x 135 mm. Ingress protection rating: IP66 . Housing to have adjustable base bracket for angle adjustment so that the light direction can be adjusted to illuminate desired structural elements. Linear Flood Lights should be installed in MS guage box for safety purpose. BIS Certificate to be submitted at the time of bid.MAKE : VIN LED / SGM / IGGUZINI / DISANO	?	Rmt
५३	SITC of Color Changing Surface-mounted flexible homogenous Linear light suitable for wall wash Lighting. Luminaire wattage should be in the range of 14W-19W/m. Luminaire should Controlled through DMX/Ethernet protocol using Data formatting device and Controller, Controller can achieve 16.7M colors. Rated input supply at DC 24V	?	

	constant voltage with external power supply. Light colour output should be RGBW. LED Make : CREE / LUMINOUS / OSRAM / SEOUL / SAMSUNG. The luminaire should have beam angle : 120°. Mean rated service life L70(tq 25 °C) = 50,000 h. Ingress protection rating (DIN EN 60529): IP66. Luminaire to be provided with required electrical accessories and cables. BIS Certificate to be submitted at the time of bid. MAKE : VIN LED / SGM / IGGUZINI / DISANO		Rmt
48	SITC of Decorative 2-way display should be made by metal iron frame body with silicon based LED lighting. Size : 0.5M x 0.5M. Input Voltage Range : AC220V/DC24V. LED Make : EPISTAR / CREE / OSRAM / SEOUL, Ingress protection rating : IP65, Wattage : 8-10 W/m Visibility of the display should be in front & back side of the road. Light output color as per approved design and complete with mounting accessories etc complete. Decorative display light should be installed using MS brackets/fasteners on wall surface. MAKE : VIN LED / SGM / IGGUZINI / DISANO	?	Nos.
49	SITC of backlit Ashtavinayak Idols made of 3 mm pvdf coated ACP or Aluminium 1 mm on sides & bottom and 5 mm 040 pmma acrylic of Mitsubishi Shinkolite/Sabic /Plexiglas in the front. Illuminated by Ultra Bright LED modules made of Aluminium PCB and PC Lens LED's should have wide beam angle in range of 140-160 degree with uniform illumination, LED make Nichia/ Osram/ Lumiled/Citizen/Samsung/Seoul. ingress protection rating (DIN EN 60529): IP65 and complete with required water proof drivers. Height of the Ganesh Idols should not exceed to 2 feet. It should be installed using MS brackets/fasteners as per site requirement. DC12/24V IP67 LED Driver should be provided with Ganesh idols. MAKE : VIN LED / SGM / IGGUZINI / DISANO	?	Nos.
50	Concept Design and Painting work of lake periphery wall with Fluorescent bright neon colors. Fluorescent Neon colors should appear normal in daylight and glow brilliantly under black light. Wall painting should be done on the theme of Lord Ganesha stories. Fluorescent neon colors should be distinctive and vivid hues that are bright & highly saturated. The colors should be stand out from the crowd and to provide graphic flourishes to grab attention.	?	Sqft
51	SITC of Blue Color Surface-mounted Linear luminaire suitable for Wall Facade Lighting. Luminaire wattage should be 48W/meter. Rated input supply at DC24V constant voltage with external power supply. Light colour output should be Blue, LED Make : CREE / LUMINOUS / OSRAM / SEOUL / SAMSUNG. The luminaire should have optics : 30° / 45° / 60° / 15°x45° / 10°x60° or as per	?	

	<p>site condition. Mean rated service life L70(tq 25 °C) = 50,000 h. Luminaire body of aluminium extruded with glass cover. Luminaire size should not exceed to 1000 x 95 x 50 mm. Ingress protection rating: IP66 . Anti glare louvre is mandatory to avoid glare. Housing to have adjustable base bracket for angle adjustment so that the light direction can be adjusted to illuminate desired structural elements. BIS Certificate to be submitted at the time of bid. MAKE : VIN LED / SGM / IGGUZINI / DISANO</p>		Nos.
46	<p>Supply and erection work of long metal poles and wooden boards that form a structure which is put next to a building so that people who are building, painting, etc. can stand and work on it.</p>	?	Job
49	<p>SITC of artistic floral form to be made in translucent polymer of special grade so that uniform glow of the desired colour is achieved from the surface of the polymer. The polymer to be formed in the desired artistic illuminated Artificial Hibiscus. This should be artistically installed to create glow and aesthetics to these unique elements of nature. These floral forms to be illuminated using special LED lights embedded inside the polymer to provide effective and natural looking glow. Size of the Hibiscus flower form should have height 1.2 meter and proportionate width . DC24V IP67 LED Driver should be provided seperately for each flower. Flowers should be installed on concrete base structure using anchor bolt. MAKE : VIN LED / SGM / IGGUZINI / DISANO</p>	?	Nos.
50	<p>SITC of artistic animal form to be made in translucent polymer of special grade so that uniform glow of the desired colour is achieved from the surface of the polymer. The polymer to be sculpted/formed in the desired artistic shape of illuminated Rat shaped sculpture . This should artistically be installed in a form to create glow and aesthetics to these unique elements of nature. Rat sculpture forms to be illuminated using special looped LED lights embedded inside the polymer to provide effective and natural looking glow to the animal form. Height of the Rat sculpture should be minimum 4ft. DC24V IP67 LED Driver should be provided seperately for each animal. Animals should be installed on concrete base structure using anchor bolt. MAKE : VIN LED / SGM / IGGUZINI / DISANO</p>	?	Nos.
52	<p>Supply of artistic form to be made in synthetized polymer of special grade so that uniform glow of the desired colour is achieved from the surface of the polymer. The polymer to be sculpted/formed in the desired Animatronic Butterfly shaped public lighting fixture . This should artistically be installed in a form to create glow and aesthetics to these unique elements of nature. These forms to be illuminated using special looped LED lights</p>	?	

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	<p>embedded inside the polymer to provide effective and natural looking glow to the animal form. Size of the structure should have H 800 mm and width proportionate. DC12/24V IP67 LED Driver should be provided seperately for each Butterfly. Animatronic Butterfly should be installed on trees in the garden using brackets/fasteners, etc. MAKE : VIN LED / SGM / IGGUZINI / DISANO</p>		Nos.
६२	<p>SITC of Stone Finish Decorative radiance globule manufactured by translucent resin material. Fixture to be self glowing to give radiant effect. Size must be diameter of 500 mm. Wattage of the luminaire should be 8W-12W, Output of the illumination should be in colour changing effect, Input Voltage : AC 230V / DC 24V , Mean rated service life L70(to 25 °C) = 50,000 h. Ingress protection rating (DIN EN 60529): IP65. Decorative radiance globule should be installed on concrete base structure using anchor bolt.MAKE : VIN LED / SGM / IGGUZINI / DISANO</p>	१	Nos.
६३	<p>SITC of LED illuminated Bench made up of Rotational moulded polyethylene diffuser and weather-proof. Aesthetically designed to suit outdoor environment. Wattage of the luminaire should be 30W-40W, Input Voltage : AC DC 12V/ DC 24V, Mean rated service life L70(tq 25 °C) = 50,000 h. LED Make : EPISTAR / CREE / OSRAM / SEOUL, ingress protection rating (DIN EN 60529): IP65. LED Bench should be provided with constant voltage DC24V IP67 LED Driver. MAKE : VIN LED / SGM / IGGUZINI / DISANO</p>	१	Nos.
६४	<p>SITC of Main LT Panel: Three phase outdoor type lighting panel, pre-wired and ready to use, manufactured by an ISO9001 certified company. It should have following specifications: Material: Outdoor type Panel with canopy Including standing arrangement, dust and vermin proof complete with hinged and double door with lockable arrangement made from 2 mm thick CRCA sheet steel, The panel shall be given one coat of red oxide primer and two coats of enamel paints. powder coated with off white color (inside & outside) Incomer: 160 A 4P 415V MCCB 36KA(TM-R) with Direct ROM with Spreader Terminal, ON Load Change Over Switch: 160 A 4P 415V, Contactor Rating: 160 A 4P, Timer Type: Astronomical Timer, Surge Protection Device: 40kA Type II (3P+N), Feeder 1 Outgoing: 100A 4P 415V MCCB 25kA(TM-R) with Direct ROM with Spreader Terminal =02 nos., Feeder 2 Outgoing: 63A 4P 415V MCCB 25kA(TM-R) with Direct ROM with Spreader Terminal =02 nos., with 30 KWH 3phase energy meter and multi functional meter Indicating Lamp: RYB LED lamp with 6 Amps C Series SP MCB back up, Auto/Manual Switch: Three Position Type, Busbar Type: Three phase, 4 wire Electrolytic high conductivity Copper three phase and neutral busbars rated at 300 Ampere insulated with heat</p>	१	Nos.

	shrinkable colored PVC sleeves & clip on shrouds for joints, Earth bus arrangement on panel: 1no.earth Copper stud on each side face, Ingress protection: IP65		
६५	SITC of Lighting Control Panel: Three phase outdoor type lighting panel, pre-wired and ready to use, manufactured by an ISO9001 certified company. It should have following specifications: Material: Outdoor type Panel with canopy Including standing arrangement, dust and vermin proof complete with hinged and double door with lockable arrangement made from 2 mm thick CRCA sheet steel, The panel shall be given one coat of red oxide primer and two coats of enamel paints. powder coated with off white color (inside & outside), Incomer: 100A 4P 415V MCCB 25KA(TM-R) with Direct ROM with Spreader Terminal, Contactor Rating: 100A 4P, Timer Type: Astronomical Timer, Surge Protection Device: 40kA Type II (3P+N), Outgoing 1: 25A 4P 415V MCCB 18kA(TM-R) with Direct ROM with Spreader Terminal, Outgoing 2: 25A 4P 415V MCCB 18kA(TM-R) with Direct ROM with Spreader Terminal, Outgoing 3: 25A 4P 415V MCCB 18kA(TM-R) with Direct ROM with Spreader Terminal, Outgoing 4: 25A 4P 415V MCCB 18kA Out going 5 : 25 Amp.4P MCCB (Spare) Outgoing 6: 25 Amp. 4P MCCB ,Outgoing 7: 25 Amp.4P MCB ,Outgoing 8:25 Amp. 4P MCB (TM-R) with Direct ROM with Spreader Terminal, Indicating Lamp: RYB LED lamp with 6 Amps C Series SP MCB back up, Auto/Manual Switch: Three Position Type, Busbar Type: Three phase, 4 wire Electrolytic high conductivity Copper three phase and neutral busbars rated at 160 Ampere insulated with heat shrinkable colored PVC sleeves & clip on shrouds for joints, Earth bus arrangement on panel: 1no.earth Copper stud on each side face, Ingress protection: IP65	?	Nos.
६६	SITC of Single core 2.5 sq mm PVC+XLPE double insulated flexible copper wires	?	Rmt
६७	SITC of Outdoor rated CAT6 cable 24AWG/23AWG, 4 pairs, STP, with solid copper conductors Make: D-link/Polycab/Belden	?	Rmt
६८	SITC of Metal junction box suitable for outdoor installation, made of MS, powder coated, IP65, Size: 48 inch X 36 inch X 8 inch	?	Nos.
६९	SITC of TPN 4-bolt type Bakelite connector 100A	?	Nos.
७०	Excavation & Backfilling of soft soil	?	Cum
७१	Excavation & reinstatement of hard PCC, solling or bitumin road	?	Cum
७२	SITC of LED Post Top Lamp suitable for Landscape Lighting, Housing to be made in pressure diecast Aluminium with color coated as per desired color. To ensure proper heat dissipation, stability and long lifespan of LED Light more than 50000 burning	?	Nos.

	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 IP65 ingress protection, Wattage : 30W-40W, Outer diameter of the luminaire not to exceed 700mm, Input Voltage : AC 165-260V, Color Temperature : 3000K-4000K, Power Efficiency : >85%, housing color : Dark grey / black, Operating Temperature : -10°C to +55°C, Operating Humidity : 10%-90%, Luminaire should be installed on 3M height GI pole. BIS Certificate to be submitted at the time of bid. MAKE : VIN LED / SGM / IGGUZINI / DISANO		
७३	Supply and erection of designer pole to be used for mounting of Post to lamp. Height of the designer pole should be 2.5M to 3M as per site feasibility. Designer pole should be made by MS hot dip galvanised material. Surface color should be match with the post top lamp housing.	१	Nos.
७४	Supply and erection of Civil foundation require for Designer pole. Size of the foundation should be minimum 600x600x600mm as per approved design	१	Nos.
७५	SITC of Green / Warm White LED Flood light suitable for decorative illumination of trees, having aluminum die cast housing with powder coated finish, aluminum mounting bracket , front toughened clear glass cover, power consumption max. 120W, LED Make : CREE/OSRAM/SEOUL SEMICONDUCTORS/LUMINOUS/SAMSUNG, with inbuilt constant current LED driver, driver efficiency: >85%, power factor>0.9, input voltage range: 180- 265VAC, Light color: Green, minimum total luminous flux: 4200 lm, high efficiency secondary optics with beam angle: 15 deg/30 deg/45 deg/10 X65 deg/120 deg, Lumen maintenance for 50000 hrs at L70. Housing to have adjustable base bracket for angle adjustment so that the light direction can be adjusted to illuminate desired structural elements. BIS certificate need to be submitted at the time of bid. MAKE : VIN LED / SGM / IGGUZINI / DISANO	१	Nos.
७६	SITC of artistic structure to be made of M.S. circular section as per suitable design bent to shape to resemble flowing effect. Structure to be divided into three parts with Height of the structure to be 4 meters and base diameter 3 meters. Structure to be illuminated by strand of LED Lights (Static Warm White at central base + Programmable White) required controller. Structure to be special coated for corrosion resistance and to be fixed on strong civil foundation at the bottom as per site suitability.	१	Nos.

	Structure to operate at Voltage : AC 220-230V / DC 12V with required power supply. LED Lights to have Ingress protection rating (DIN EN 60529): IP65 MAKE : VIN LED / SGM / IGGUZINI / DISANo		
७७	SITC of Main LT Panel: Three phase outdoor type lighting panel, pre-wired and ready to use, manufactured by an ISO9001 certified company. It should have following specifications: Material: Outdoor type Panel with canopy Including standing arrangement, dust and vermin proof complete with hinged and double door with lockable arrangement made from 2 mm thick CRCA sheet steel, The panel shall be given one coat of red oxide primer and two coats of enamel paints. powder coated with off white color (inside & outside) Incomer: 160 A 4P 415V MCCB 36KA(TM-R) with Direct ROM with Spreader Terminal, ON Load Change Over Switch: 160 A 4P 415V, Contactor Rating: 160 A 4P, Timer Type: Astronomical Timer, Surge Protection Device: 40kA Type II (3P+N), Feeder 1 Outgoing: 100A 4P 415V MCCB 25kA(TM-R) with Direct ROM with Spreader Terminal =02 nos., Feeder 2 Outgoing: 63A 4P 415V MCCB 25kA(TM-R) with Direct ROM with Spreader Terminal =02 nos., with 20 KWH 3phase energy meter and multi functional meter Indicating Lamp: RYB LED lamp with 6 Amps C Series SP MCB back up, Auto/Manual Switch: Three Position Type, Busbar Type: Three phase, 4 wire Electrolytic high conductivity Copper three phase and neutral busbars rated at 300 Ampere insulated with heat shrinkable colored PVC sleeves & clip on shrouds for joints, Earth bus arrangement on panel: 1no.earth Copper stud on each side face, Ingress protection: IP65	१	Nos.
७८	SITC of Lighting Control Panel: Three phase outdoor type lighting panel, pre-wired and ready to use, manufactured by an ISO9001 certified company. It should have following specifications: Material: Outdoor type Panel with canopy Including standing arrangement, dust and vermin proof complete with hinged and double door with lockable arrangement made from 2 mm thick CRCA sheet steel, The panel shall be given one coat of red oxide primer and two coats of enamel paints. powder coated with off white color (inside & outside), Incomer: 100A 4P 415V MCCB 25KA(TM-R) with Direct ROM with Spreader Terminal, Contactor Rating: 100A 4P, Timer Type: Astronomical Timer, Surge Protection Device: 40kA Type II (3P+N), Outgoing 1: 25A 4P 415V MCCB 18kA(TM-R) with Direct ROM with Spreader Terminal, Outgoing 2: 25A 4P 415V MCCB 18kA(TM-R) with Direct ROM with Spreader Terminal, Outgoing 3: 25A 4P 415V MCCB 18kA(TM-R) with Direct ROM with Spreader Terminal, Outgoing 4: 25A 4P 415V MCCB 18kA Out going 5 : 25 Amp.4P MCCB (Spare) Outgoing 6: 25	१	Nos.

	Amp. 4P MCCB ,Outgoing 7: 25 Amp.4P MCB ,Outgoing 8:25 Amp. 4P MCB (TM-R) with Direct ROM with Spreader Terminal, Indicating Lamp: RYB LED lamp with 6 Amps C Series SP MCB back up, Auto/Manual Switch: Three Position Type, Busbar Type: Three phase, 4 wire Electrolytic high conductivity Copper three phase and neutral busbars rated at 160 Ampere insulated with heat shrinkable colored PVC sleeves & clip on shrouds for joints, Earth bus arrangement on panel: 1no.earth Copper stud on each side face, Ingress protection: IP65		
७९	SITC of Single core 2.5 sq mm PVC+XLPE double insulated flexible copper wires	?	Rmt
८०	SITC of Outdoor rated CAT6 cable 24AWG/23AWG, 4 pairs, STP, with solid copper conductors Make: D-link/Polycab/Belden	?	Rmt
८१	SITC 300 X 75 mm GI Perforated cable tray with all accessories.	?	Rmt
८२	SITC of Metal junction box suitable for outdoor installation, made of MS, powder coated, IP65, Size: 36 inch X 36 inch X 8 inch	?	Nos.
८३	SITC RGBW LED flood light suitable for multi-color decorative illumination of trees with approx. 16.7 million different colors, individually DMX addressable, with built-in DMX decoder, having aluminum die cast housing with powder coated finish, aluminum mounting bracket , front toughened clear glass cover, power consumption max. 120W, LED Make : CREE/OSRAM/SEOUL SEMICONDUCTORS/LUMINOUS/SAMSUNG, Rated input voltage: DC24V (External Power Supply), Light color: RGBW, minimum total luminous flux: 4200 lm, high efficiency secondary optics with beam angle: 15 deg/30 deg/45 deg/10 X65 deg, Ingress Protection: IP66, Lumen maintenance for 50000 hrs at L70. Housing to have adjustable base bracket for angle adjustment so that the light direction can be adjusted to illuminate desired structural elements. RGBW LED Flood Light should be installed on existing trees with MS brackets/fasterns or minimum 1M height MS pole using civil foundation base and safety guage box as per site requirement. BIS certificate need to be submitted at the time of bid. MAKE : VIN LED / SGM / IGGUZINI / DISANO	?	Nos.
८४	SITC of standalone DMX controller configuring following compatibility: Input: USB 2.0 via Mini USB Number of DMX output channels: Upto 512 on 3-pin XLR connector DMX modes: PC and Stand Alone Internal Memory : 4MB or more External Memory: SD card slot included Memory capacity: 6000 steps with 512 channels Inbuilt Real Time Clock(RTC) with time and calendar triggers Eight scene trigger buttons, four option buttons and one mode button 7 or more dry contact triggers Three RJ45 connectors	?	

	for easy I/O connections RS232 triggers for scene selection, speed, dimmer and black out IR remote controller available Synchronize and connect up to 32 interfaces together in Master/slave configuration. Power consumption: 0.5W High voltage protection, IP rating: IP40 Compatible with 8-bit and 16-bit DMX fixtures Operating temperature: -25 to +70 deg C. Certifications: CE, RoHS. DMX Controller should be installed in IP65 Junction box		Nos.
64	SITC of Signal Amplifier, specially designed for signal shaping and amplification of DMX signal which attenuated after a long-distance transmission, extend the signal transmission distance. Input voltage: DC 12-24V Optical isolation of 1kV between input and output. One DMX signal input and two distributed DMX signal output. DIN rail mount. Signal Amplifier should be installed in IP65 Junction Box	?	Nos.
65	SITC of Backlit Signage to be Illuminated by Ultra Bright LED modules made of Aluminium PCB and PC Lens LED's should have wide beam angle in range of 140-160 degree with uniform illumination, LED make Nichia/ Osram/ Lumiled/Citizen/Samsung/Seoul. ingress protection rating (DIN EN 60529): IP65 and complete with required water proof drivers signage made up of MS Structure made of I Sections or C Channels & L Angles as per approved drawing with one coat primer and 2 coats of paint with along with 3 mm pvdf coated ACP of Aludecor / Vivabond / Eurobond with channel letters 3mm acrylic sheet. Board Size : 6-8M length x 1M height as per approved design. MAKE : VIN LED / SGM / IGGUZINI / DISANO	?	Job
66	SITC of Image Projector Light made up of Die Casting Magnesium Alloy and matt black finish Ingress protection rating (DIN EN 60529): IP65 . Power consumption of the image projector should be minimum 100W, LED Light source : 90W White LED with having 1989 lumen output, Driver current rating : 6.3A, The projector should have OLED display, The projector should have built-in facility such as Cooling Mode : Convection + Fan, Input Voltage : 100-240V AC,50-60Hz, The projector should have dimming facility ranging from 0- 100%, Projector to provided with minimum 7 numbers of rotating gobos with decorative patterns and in-built auto controller. LED Make : EPISTAR / CITIZEN / OSRAM / SEOUL/BRIDGELUX, Ingress protection rating (DIN EN 60529): IP65. Image projector should be installed with suitable brackets arrangement. MAKE : VIN LED / SGM / IGGUZINI / DISANO	?	Nos.
67	SITC of artistic structure to be made of M.S. circular section as per suitable design bent to shape to resemble flowing effect. Structure to be divided into	?	

	<p>three parts with Height of the structure to be 4 meters and base diameter 3 meters. Structure to be illuminated by strand of LED Lights (Static Warm White at central base + Programmable White) required controller. Structure to be special coated for corrosion resistance and to be fixed on strong civil foundation at the bottom as per site suitability. Structure to operate at Voltage : AC 220-230V / DC 12V with required power supply. LED Lights to have Ingress protection rating (DIN EN 60529): IP65 MAKE : VIN LED / SGM / IGGUZINI / DISANO</p>		Nos.
८९	<p>SITC of round shape embedded effects engine delivers interactive touch lighting for outdoor use. System to create interactive experiences that are defined from a set of simple colours palettes with sensors. Housing should be made in stainless steel/ABS frame and toughened glass cover on top, touch panel should have following technical features : High brightness RGB LEDs, capacitive motion / proximity sensors and Built-in programmable interactive effects engine and complete with required power supply. Suitable for completely outdoor use with having IP65 ingress protection. Size of an interactive touch panel should be dia 500 mm embedded inside the ground. Interactive Lights should be provided with constant voltage DC24V LED Driver. MAKE : VIN LED / SGM / IGGUZINI / DISANO</p>	१	Nos.
९०	<p>Supply and erection of civil work for concrete foundation in circular shape for the installation of interactive floor lights, Cables should be hide inside the foundation base. Circular foundation should be cover with artificial grass. Interactive floor lights should be flush to the foundation level.</p>	१	Job
९१	<p>SITC of LED Moon Selfie Points made up of stainless steel/MS with 3 mm polycarbonate / acrylic in front. Operating Voltage should be : DC 12V /DC 24V complete with required power supply. Selfie point to be provided with proper arrangement for sitting of the visitors. Selfie Point to be illuminated with LED Modules of required CCT to give the natural effect. Selfie Point to have Dimension : Height : 2 meter and Width 1.9 meter. LED modules body should be made of Aluminium PCB, PC Lens, Plastic Injection process, LED's should have wide beam angle of 120 degree with uniform illumination. Ingress protection rating of LED modules (DIN EN 60529): IP65. Structure to be fixed on strong civil foundation at the bottom as per site suitability. Selfie Point should be provided with constant voltage DC24V LED Driver. MAKE : VIN LED / SGM / IGGUZINI / DISANO</p>	१	Nos.
९२	<p>SITC of Main LT Panel: Three phase outdoor type lighting panel, pre-wired and ready to use, manufactured by an ISO9001 certified company. It should have following specifications: Material:</p>	१	

	<p>Outdoor type Panel with canopy Including standing arrangement, dust and vermin proof complete with hinged and double door with lockable arrangement made from 2 mm thick CRCA sheet steel, The panel shall be given one coat of red oxide primer and two coats of enamel paints. powder coated with off white color (inside & outside) Incomer: 160 A 4P 415V MCCB 36KA(TM-R) with Direct ROM with Spreader Terminal, ON Load Change Over Switch: 160 A 4P 415V, Contactor Rating: 160 A 4P, Timer Type: Astronomical Timer, Surge Protection Device: 40kA Type II (3P+N), Feeder 1 Outgoing: 100A 4P 415V MCCB 25kA(TM-R) with Direct ROM with Spreader Terminal =02 nos., Feeder 2 Outgoing: 63A 4P 415V MCCB 25kA(TM-R) with Direct ROM with Spreader Terminal =02 nos., with 30 KWH 3phase energy meter and multi functional load meter Indicating Lamp: RYB LED lamp with 6 Amps C Series SP MCB back up, Auto/Manual Switch: Three Position Type, Busbar Type: Three phase, 4 wire Electrolytic high conductivity Copper three phase and neutral busbars rated at 300 Ampere insulated with heat shrinkable colored PVC sleeves & clip on shrouds for joints, Earth bus arrangement on panel: 1no.earth Copper stud on each side face, Ingress protection: IP65</p>		Nos.	
९३	<p>SITC of Lighting Control Panel: Three phase outdoor type lighting panel, pre-wired and ready to use, manufactured by an ISO9001 certified company. It should have following specifications: Material: Outdoor type Panel with canopy Including standing arrangement, dust and vermin proof complete with hinged and double door with lockable arrangement made from 2 mm thick CRCA sheet steel, The panel shall be given one coat of red oxide primer and two coats of enamel paints. powder coated with off white color (inside & outside), Incomer: 100A 4P 415V MCCB 25KA(TM-R) with Direct ROM with Spreader Terminal, Contactor Rating: 100A 4P, Timer Type: Astronomical Timer, Surge Protection Device: 40kA Type II (3P+N), Outgoing 1: 25A 4P 415V MCCB 18kA(TM-R) with Direct ROM with Spreader Terminal, Outgoing 2: 25A 4P 415V MCCB 18kA(TM-R) with Direct ROM with Spreader Terminal, Outgoing 3: 25A 4P 415V MCCB 18kA(TM-R) with Direct ROM with Spreader Terminal, Outgoing 4: 25A 4P 415V MCCB 18kA Out going 5 : 25 Amp.4P MCCB (Spare) Outgoing 6: 25 Amp. 4P MCCB ,Outgoing 7: 25 Amp.4P MCB ,Outgoing 8:25 Amp. 4P MCB (TM-R) with Direct ROM with Spreader Terminal, Indicating Lamp: RYB LED lamp with 6 Amps C Series SP MCB back up, Auto/Manual Switch: Three Position Type, Busbar Type: Three phase, 4 wire Electrolytic high conductivity Copper three phase and neutral busbars rated at 160 Ampere insulated with heat</p>	१	Nos.	

	shrinkable colored PVC sleeves & clip on shrouds for joints, Earth bus arrangement on panel: 1no.earth Copper stud on each side face, Ingress protection: IP65		
९४	SITC of Color Changing Surface-mounted Linear luminaire suitable for facade Lighting. Luminaire luminous flux range 840-960 Lm, Luminaire wattage should be 24W/meter. Luminaire should Controlled through DMX/Ethernet protocol Controller. Rated input supply at DC24V constant voltage with external power supply and integral decoder. Light colour RGB/RGBW(W:5500-6000K) LED Make : CREE / LUMINOUS / OSRAM / SEOUL / SAMSUNG. The luminaire should have optics : 30° / 45° / 60° / 15°x45° / 10°x60° or as per site condition. Mean rated service life L70(tq 25 °C) = 50,000 h. Luminaire body of aluminium extruded with glass cover. Luminaire size should not exceed to 1000 x 95 x 50 mm. Ingress protection rating: IP66 . Anti glare louvre is mandatory to avoid glare. Housing to have adjustable base bracket for angle adjustment so that the light direction can be adjusted to illuminate desired structural elements. Linear Light should be installed using MS brackets /fasteners on wall surface. BIS Certificate to be submitted at the time of bid. MAKE : VIN LED / SGM / IGGUZINI / DISANO	१	Nos.
९५	SITC of standalone DMX controller configuring following compatibility: Input: USB 2.0 via Mini USB Number of DMX output channels: Upto 512 on 3-pin XLR connector DMX modes: PC and Stand Alone Internal Memory : 4MB or more External Memory: SD card slot included Memory capacity: 6000 steps with 512 channels Inbuilt Real Time Clock(RTC) with time and calendar triggers Eight scene trigger buttons, four option buttons and one mode button 7 or more dry contact triggers Three RJ45 connectors for easy I/O connections RS232 triggers for scene selection, speed, dimmer and black out IR remote controller available Synchronize and connect up to 32 interfaces together in Master/slave configuration. Power consumption: 0.5W High voltage protection, IP rating: IP40 Compatible with 8-bit and 16-bit DMX fixtures Operating temperature: -25 to +70 deg C. Certifications: CE, RoHS. DMX Controller should be installed in IP65 Junction box	१	Nos.
९६	SITC of Signal Amplifier, specially designed for signal shaping and amplification of DMX signal which attenuated after a long-distance transmission, extend the signal transmission distance. Input voltage: DC 12-24V Optical isolation of 1kV between input and output. One DMX signal input and two distributed DMX signal output. DIN rail mount. Signal Amplifier should be installed in IP65 Junction Box	१	Nos.

१७	<p>SITC of LED Post Top Lamp suitable for Landscape Lighting, Housing to be made in pressure die-cast Aluminium with color coated as per desired color. To ensure proper heat dissipation, 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 IP65 ingress protection, Wattage : 30W-40W, Outer diameter of the luminaire not to exceed 700mm, Input Voltage : AC 165-260V, Color Temperature : 3000K-4000K, Power Efficiency : >85%, housing color : Dark grey / black, Operating Temperature : -10°C to +55°C, Operating Humidity : 10%-90%, Luminaire should be installed on 3M height GI pole. BIS Certificate to be submitted at the time of bid. MAKE : VIN LED / SGM / IGGUZINI / DISANO</p>	१	Nos.
१८	<p>Supply and erection of designer pole to be used for mounting of Post to lamp. Height of the designer pole should be 2.5M to 3M as per site feasibility. Designer pole should be made by MS hot dip galvanised material. Surface color should be match with the post top lamp housing</p>	१	Job
१९	<p>Supply and erection of Civil foundation require for Designer pole. Size of the foundation should be minimum 600x600x600mm as per approved design</p>	१	Job
१००	<p>SITC of LED Heart shaped Selfie Points made up of stainless steel/MS with 3 mm polycarbonate / acrylic in front. Operating Voltage should be : DC 12V /DC24V complete with required power supply. Selfie point to be provided with proper arrangement for sitting of the visitors. Selfie Point to be illuminated with LED Modules of required CCT to give the natural effect. Selfie Point to have Dimension : Height : 2 meter and Width proportionate. LED modules body should be made of Aluminium PCB, PC Lens, Plastic Injection process, LED's should have wide beam angle of 120 degree with uniform illumination. Ingress protection rating of LED modules (DIN EN 60529): IP65. Heart Shape Selfie point structure should be installed on civil foundation. MAKE : VIN LED / SGM / IGGUZINI / DISANO</p>	१	Nos.
१०१	<p>SITC of artistic Funnel with metal frame structure. Height of the Funnel Structure should be minimum 4 meters from the ground level, Funnel structure should be in form of circular shape with Top Dome Ø2.5M-3M and Base Ø0.8M-1M, Dynamic Pixel homogeneous Flexible Linear should have following specifications - IC Integrated Pixel Flexible dotfree</p>	१	

	linear light, suitable for outdoor application having IP rating IP66, Material should be made of Silicon and other connecting accessories. Wattage : 14-18W/m. Rated input supply of AC 220V / DC 24V (external power supply should be provided) . Output color should be Pixel RGB/RGBW with minimum 8 nos of integrated IC, LED Make : Cree / Osram / Nichia / Lumileds / Seoul, The luminaire should have optics : 120 Degree, Mean rated service life L70(tq 25 °C) = 50,000 h. :Ingress protection rating (DIN EN 60529): IP65. MAKE : VIN LED / SGM / IGGUZINI / DISANO		Nos.
१०२	Supply and erection of Civil foundation require for Funnel Structure. Size of the foundation should be minimum 1200x1200x1200mm as per approved design	१	Job
१०३	SITC of artistic animal form to be made in translucent polymer of special grade so that uniform glow of the desired colour is achieved from the surface of the polymer. The polymer to be sculpted/formed in the desired artistic shape of illuminated deer shaped sculpture . This should artistically be installed in a form to create glow and aesthetics to these unique elements of nature. These animal forms to be illuminated using special looped LED lights embedded inside the polymer to provide effective and natural looking glow to the animal form. Size of the set should be 180 x 140 x 60cm, 160 x 140 x 60cm and 150 x 130 x 60cm. DC24V IP67 LED Driver should be provided seperately for each animal. Each animal should be installed on concrete base structure using anchor bolt. MAKE : VIN LED / SGM / IGGUZINI / DISANO	१	Set
१०४	SITC of artistic animal form to be made in translucent polymer of special grade so that uniform glow of the desired colour is achieved from the surface of the polymer. The polymer to be sculpted/formed in the desired artistic shape of illuminated Flamingo shaped sculpture . This should artistically be installed in a form to create glow and aesthetics to these unique elements of nature. These animal forms to be illuminated using special looped LED lights embedded inside the polymer to provide effective and natural looking glow to the animal form. Height of the flamingo should be minimum 3 feet. DC24V IP67 LED Driver should be provided seperately for each animal. Each animal should be installed on concrete base structure using anchor bolt. MAKE : VIN LED / SGM / IGGUZINI / DISANO	१	Nos.
१०५	SITC of Main LT Panel: Three phase outdoor type lighting panel, pre-wired and ready to use, manufactured by an ISO9001 certified company. It should have following specifications: Material: Outdoor type Panel with canopy Including standing arrangement, dust and vermin proof complete with hinged and double door with lockable arrangement	१	

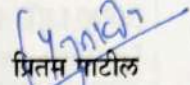
	<p>made from 2 mm thick CRCA sheet steel, The panel shall be given one coat of red oxide primer and two coats of enamel paints. powder coated with off white color (inside & outside) Incomer: 160 A 4P 415V MCCB 36KA(TM-R) with Direct ROM with Spreader Terminal, ON Load Change Over Switch: 160 A 4P 415V, Contactor Rating: 160 A 4P, Timer Type: Astronomical Timer, Surge Protection Device: 40kA Type II (3P+N), Feeder 1 Outgoing: 100A 4P 415V MCCB 25kA(TM-R) with Direct ROM with Spreader Terminal =02 nos., Feeder 2 Outgoing: 63A 4P 415V MCCB 25kA(TM-R) with Direct ROM with Spreader Terminal =02 nos., with 30 KWH 3phase energy meter and multi functional meter Indicating Lamp: RYB LED lamp with 6 Amps C Series SP MCB back up, Auto/Manual Switch: Three Position Type, Busbar Type: Three phase, 4 wire Electrolytic high conductivity Copper three phase and neutral busbars rated at 300 Ampere insulated with heat shrinkable colored PVC sleeves & clip on shrouds for joints, Earth bus arrangement on panel: 1no.earth Copper stud on each side face, Ingress protection: IP65</p>		Nos.	
१०६	<p>SITC of Lighting Control Panel: Three phase outdoor type lighting panel, pre-wired and ready to use, manufactured by an ISO9001 certified company. It should have following specifications: Material: Outdoor type Panel with canopy Including standing arrangement, dust and vermin proof complete with hinged and double door with lockable arrangement made from 2 mm thick CRCA sheet steel, The panel shall be given one coat of red oxide primer and two coats of enamel paints. powder coated with off white color (inside & outside), Incomer: 100A 4P 415V MCCB 25KA(TM-R) with Direct ROM with Spreader Terminal, Contactor Rating: 100A 4P, Timer Type: Astronomical Timer, Surge Protection Device: 40kA Type II (3P+N), Outgoing 1: 25A 4P 415V MCCB 18kA(TM-R) with Direct ROM with Spreader Terminal, Outgoing 2: 25A 4P 415V MCCB 18kA(TM-R) with Direct ROM with Spreader Terminal, Outgoing 3: 25A 4P 415V MCCB 18kA(TM-R) with Direct ROM with Spreader Terminal, Outgoing 4: 25A 4P 415V MCCB 18kA Out going 5 : 25 Amp.4P MCCB (Spare) Outgoing 6: 25 Amp. 4P MCCB ,Outgoing 7: 25 Amp.4P MCB ,Outgoing 8:25 Amp. 4P MCB (TM-R) with Direct ROM with Spreader Terminal, Indicating Lamp: RYB LED lamp with 6 Amps C Series SP MCB back up, Auto/Manual Switch: Three Position Type, Busbar Type: Three phase, 4 wire Electrolytic high conductivity Copper three phase and neutral busbars rated at 160 Ampere insulated with heat shrinkable colored PVC sleeves & clip on shrouds for joints, Earth bus arrangement on panel: 1no.earth Copper stud on each side face, Ingress</p>	१	Nos.	

	protection: IP65		
१०७	Re-erection of Existing Transformer with necessary material on new DP Structure	१	KVA
१०८	Re-erection of Existing Feeder Pillar with existing cable termination at new proposed location	१	Each
१०९	Supplying, erecting & commissioning of all-in-one integrated LED solar light fitting Min. 60W IP65 & IK08 class having single highly efficient LM6 Pressure die Cast / Extruded Al Housing with Proper OEM Brand Name Embossment for ensuring quality, with mid power white dimmable LEDs having system lumens output of Min. 8100 Lumens with LM79 Report from own NABL Accredited Lab, minimum dimming 25%, min. efficacy of Minimum 135 Lumens / Watts at System level after all losses , CRI>70, CCT upto 6000-6500 K, Life class of 50,000 Hrs. at L70B50. The Solar Cell shall be made of Premium grade mono crystalline silicon Cell. Solar Battery 12.8V Lithium Ferrous Phosphate Battery with BMS BIS approved. Solar Panel minimum 120 Wp PV/ Battery Sizing at least 48AH to be design with dimming profile based on Load Wattage, Battery & Panel sizing calculation to be submitted. Rechargeable Lithium Ferro Phosphate (LiFePo4) Battery Pack with highly efficient, integrated microprocessor based MPPT charge controller with driver mounted on the same board to minimize power loss with 5 Years warranty as per specification. Product to ensure proper load managemnet on the Pole.	१	Each
११०	Supplying, erecting & commissioning of all-in-one integrated LED solar light fitting Min. 90-100W IP65 & IK08 class having single highly efficient LM6 Pressure die Cast / Extruded Al Housing with Proper OEM Brand Name Embossment for ensuring quality, with mid power white dimmable LEDs having system lumens output of Min. 13000 Lumens with LM79 Report from own NABL Accredited Lab, minimum dimming 25%, min. efficacy of Minimum 135 Lumens / Watts at System level after all losses , CRI>70, CCT up to 6000-6500 K, Life class of 50,000 Hrs. at L70B50. The Solar Cell shall be made of Premium grade mono crystalline silicon Cell. Solar Battery 12.8V Lithium Ferrous Phosphate Battery with BMS BIS approved. Solar Panel minimum 150-170 Wp PV/ Battery Sizing at least 48AH to be design with dimming profile based on Load Wattage, Battery & Panel sizing calculation to be submitted. Rechargeable Lithium Ferro Phosphate (LiFePo4) Battery Pack with highly efficient, integrated microprocessor based MPPT charge controller with driver mounted on the same board to minimize power loss with 5 Years warranty as per specification. Product to ensure proper load managemnet on the Pole.	१	Each

१११	Supply of EEC Make Cat No.GP19 Decorative Garden G.I Pole 12ft (3.5 MTR) made by ISI Mark Galvanized Round Pipe. The Pole Grooved 3mm inner Deep & 4.5 mm outer Deep Grooved with Surfacer Primer/NC Black/Grey Paint as per design of the Pole. The Pole has inbuilt arrangement of Junction Box ,Connector Plate ,Allen Bolts, etc with Base plate of size 8"X8"X10 mm	१	Each
११२	Supply of LED Fitting for GP 19-12ft Garden Pole 30W LED fitting IP 65 Aluminium Canopy Street Lantern with Acrylic Bowl, Kalki/Marvin Make /NW/WW LED with one year warranty.	१	Each
११३	Supply of LED Fitting for GP 19-12ft Garden Pole 50W LED fitting IP 65 Aluminium Canopy Street Lantern with Acrylic Bowl, Kalki/Marvin Make NW/WW LED with one year warranty.	१	Nos.
११४	Supply erecting & commissioning of ABC Type 6 KG Fire Extinguisher	१	Nos.
११५	Providing & Fixing of Bucket with stand for Fire Extinguisher	१	Nos.
११६	Providing & Fixing of Signages for Fire Extinguisher	१	Nos.
११७	Proving & Fixing of Evacuation Plan for Fire Extinguisher	१	Nos.
११८	Supply & Fixing Conical type Translucent Poles made of glass fiber reinforced with polymer matric (GFRP) combination of fiber glass & resin, having Top 80 mm & Bottom 215 mm, height 9 mtr Customized logo in corporation with filament winding by using CNC (computer Numerical Control)method with Standard seven colour & having Lighting arrangement with 20 to 30 Watt LED Strip inside pole all as specified & Directed By Engr-In-Charge.	१	Each
११९	Supply & Fixing Bollard type Translucent Poles made of glass fiber reinforced with polymer matric (GFRP) combination of fiber glass & resin, having thicknes 06 mm, height 0.75 mtr Customized logo in corporation with filament winding by using CNC (computer Numerical Control)method with Standard seven colour & having Lighting arrangement with 20 to 30 Watt LED Strip inside pole all as specified & Directed By Engr-In-Charge.	१	Each
१२०	Supply & Fixing Conical type Translucent Poles made of glass fiber reinforced with polymer matric (GFRP) combination of fiber glass & resin, having Top 80 mm & Bottom 125 mm, height 3 mtr Customized logo in corporation with filament winding by using CNC (computer Numerical Control)method with Standard seven colour & having Lighting arrangement with 20 to 30 Watt LED Strip inside pole all as specified & Directed By Engr-In-Charge.	१	Each

अटी व शर्ती :-

१. सीलबंद दरपत्रके दिनांक- १३/१०/२०२३ ते दि. २०/१०/२०२३ रोजीपर्यंत दुपारी ३.०० वाजेपर्यंत पनवेल महानगरपालिकेच्या विद्युत विभागात किंवा pmcelectrical१२३@gmail.com या ई-मेलवर स्वीकारण्यात येतील.
२. सदरचे दरपत्रक हे अंदाजपत्रक बनविण्यासाठी असून सदर कामांवर Manufacturer/Dealer/Contractor चा दावा (Claim) असणार नाही.
३. Manufacturer/Dealer/Contractor ने दिलेले दरपत्रक स्विकारणाचे सर्व अधिकार पनवेल महानगरपालिकेकडे असतील याची नोंद घ्यावी.


प्रितम पाटील
विद्युत विभाग प्रमुख
पनवेल महानगरपालिका