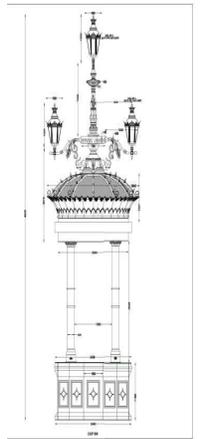


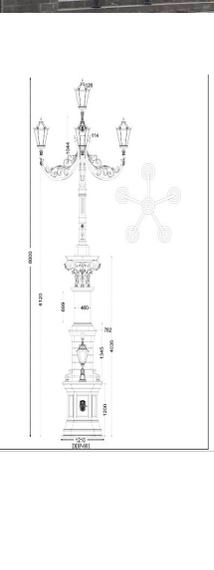
NAGPUR MUNICIPAL CORPORATION

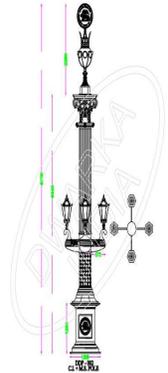
City Beautification NON CSR Rate List

Sr No	Item Description	Unit	Qty	Rate	Amount	Images
1	SITC of Artificial SS balloon tree of balloon illuminated using external colour changing RGBW Lighting. LED lit-up Balloon tree of 18 branches of Mild steel of appropriate size with 100-200mm dia balloons. The length of branches shall be min 1.2 mtr- 3 mtr. The structure shall have LIT up with 30-45watt RGBW par Light. Crafted with high-quality mild steel, it boasts a sleek and durable design that is both visually appealing and long-lasting. Perfect for enhancing the aesthetic appeal of gardens, entrances, or outdoor areasThe Structure shall have a proper mounting arrangement. It shall be as designed and approved by PMC and as per the instructions of the Engineer- in charge..with 3 years warranty.	Each	1			
2	SITC of SS Design Pillar illuminated, Crafted with high-quality stainless steel, it boasts a sleek and durable design that is both visually appealing and long-lasting. Perfect for enhancing the aesthetic appeal of outdoor areas.8 nos stainless steel design pillar stands tall at a height of 8-15 feet with a pattern as per design by PMC and instructions of Engineer- in Charge , a touch of elegance and modernity Perfect for enhancing the aesthetic appeal of outdoor areas. The structure shall have LIT up with 50-75 watt RGBW par Light. with 3 years warranty.	Each	1			
3	SITC of LED lit up Feather set of 9 nos of Mild steel of size 10 feet X 6 feet CNC Cutting . The structure shall have LIT up with 30watt RGBW par Light. The Structure shall have proper mounting arrangement. Shall be as per designed and approved by PMC and as per instructions of Engineer- in charge.with 3 years warranty.	Each	1			
4	Supplying and erecting of 3.5mtr height Decorative Tensile Post top lantern Pole with 25 watt/meter RGBW LED strip. The bottom diameter being 138mm OD, having thickness of 3mm with Post Top 750mm Long 730 GSM Fabric with colour changing LED pixel Lights mount on it. The pole is placed on a base plate of size 300x300mmx10mm for foundation purpose Inbuilt junction box & Pole will be painted with poly urethane paint Pole designed as per IS 2713 (1980) With complete erection on provided foundation & testing trial with 60 month operational warrantee and as per directions by engineer in charge with 3 years warranty.	Each	1			
5	SITC of artistic Glowing birds 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 fibre type glowing birds public lighting fixture . 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.with 3 years warranty.	Each	1			
6	SITC of 100cm hologram fan display with 3D projection Display size: diameter 99cm, Number of lamp beads: 1184 bright LEDs, Resolution: 1024 * 1024, Rated power: 120W, Brightness: 2200cd / m2, Content replacement method: mobile app + PC software, Quick start: 2 seconds for drawing, Timed playback: support, System security: user secondary encryption, Remote synchronization: support, SD card content copy: support 3D content production: support, Massive cloud content: free use, Power supply mode: non-contact wireless power supply, Real-time projection: support, Remote control: support, Bluetooth audio output: support, Multi-device splicing: support, Warranty period:36 months, Single net weight: 2kg, * Fabrication: Case with toughened Glass - square shape 110cm height * 30cm, depth* 110cm width, powder coated with 3 feet height stand for ground fixing* Shipping Domestic shipping: Shipping the fabrication with packing, * 3d animation: Video creation 2 min 3D video 1080P as per customer requirements revisions - 3 free with 3 years warranty.	Each	1			 
7	SITC of Decorative glowing sticks 1.5 mtr Made of high-quality SS304 materials and acrylic diffuser of 3 watts.2700k with operating voltage 12V/24V , the surface is smooth, safe and durable,with an enlightening glowing effect in the translucent Diffuser of special grade so that uniform glow of the desired amber colour is achieved from the surface . The diffuser is to be formed in the desired artistic shape of height 0.6 mtr and a metal stick of height 0.9 mtr. with 3 years warranty.	Each	1			

8	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 shape of various artificial flowers of total height 1.5 mtr . 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. with 3 years warranty.	Each	1			
9	SITC of FRP Glowing Street Street Furniture with as per design with required LED light inbuilt of 450mm height and 350mm diameter.with 3 years warranty.	Each	1			
10	SITC of Solar Tree with 8 charging points made of MS structure in the shape of a tree with branches having a solar panel for charging points and 3 watts LED on each leaves having a DC battery inbuilt in it. The height for the structure should be around 3- 6 mtr having 10 branches with PU 2 coat painting. The circular platform for seating arrangements as shown. with 3 years warranty.	Each	1			
11	SITC of Red terracotta Sandstone bollards of height 750 MM and top and bottom of 150mm x 150 mm with LED of 15-25 watts with mono colour. The Luminaire should be capable of operating at 12V/ 24VDC, the thickness of stone 25mm, cutwork design approved by an engineer in charge. with 3 years warranty.	Each	1			
12	SITC of Red Terracotta sandstone pillar of height 4.5 mtr , 474mmX 474mm. At top illuminated Lotus bud of 600mm height alabaster stone. The Base is 691mm X 691mm red sandstone. Illumination portion at the bottom and top portion as per design by PMC and approved by Engineer in Charge.with 3 years warranty.	Each	1			
13	Supply of 0.9m Height Decorative Bollard, made of Steel pipe and no fabrication from sheet metal is allowed with base plate. The entire Column light needs to be Hot Dip Galvanized. The luminaire should be with an effective heat sink design to maintain the operating temperatures at LED junction and other components within permissible limits corresponding to the designated design life and the IP65 optical compartment. The diffuser shall be opal PMMA/PC with CNC cutting design and PU painted with 2 coats as per approved by engineer in charge and designed by PMC with an opening of 450mm (+/-5%). The system AC wattage of the luminaire shall be 27W (± 10%), colour rendering index CRI >= 70 and residual flux of 70% (L70) @ 50,000 hours at Ta of 25°C. Colour temperature (CCT) of 3000K. The luminaire shall be suitable for operating within temperature range from - 10°C to + 40°C. The light source should be (Make- Osram/ bridgelux /nichia /cree /Lumiled) with Macadam <= 5. The luminaire should be deigned to operate at any voltage from 140V to 270V, with Power Factor ≥ 0.95 and shall be provided with optional built in Over Voltage and Under Voltage protection and internal surge protection of 4/4 kV in both Common & Differential Modes and external surge protection of 10 kV, electrical Class I. The luminaire shall comply with safety requirements of applicable BIS standard . Overall outer dimensions of luminaire shall be Round 160mm (±3%) and 900mm (±5%) Height.The offered luminaire shall be made in India with local value addition of not less than 70%, with the housing die-casted & manufactured in India.. The luminaire should be having a warranty for a period of 3 years against any manufacturing defects. with 3 years warranty.	Each	1			

14	<p>Decorative Ornamental Square Center Traffic Chhatri Pole. Supply, installation and fixing of heritage architectural ornamental decorative light Traffic Chhatri pole having provision to fix decorative brackets with aluminum light fixture. Installation of same with foundation bolts of suitable size to grout it into specially designed RCC foundation, as shown in the enclosed drawing. The decorative bracket & light shall be fixed on the top of the pole. The details of pole, brackets & light are given below: - The total height of the traffic chhatri is 8520mm. ● First Part-Base- A complete blend of cast iron and M.S heavy design decorative base of octagonal shape with classic designs on it is of height 1199mm. The diameter from bottom to top reduces from 2440mm to 2439mm. The base shall contain all provisions for electric arrangements. Mentioned dimensions are proposed dimensions, which may vary with actual measurements (Tolerance of ±5%) ● Second Part- Pillar-It is a complete structure with four number of round pillars. The overall height of this part is 2540mm. The diameter of the each pillar is 220mm. The top and bottom part of the pillars is of beautiful heritage designs of cast iron. ● Third Part- The Chhatri- A cast iron and M.S beautiful design crown shaped structure with Victorian style and ornamental look is mounted on the four pillars. The total height of this part is 2070mm. The diameter of the base of chhatri is 2244mm the diameter of the crown part is 2952 mm. At the bottom of the chhatri there is provision for light and fan fittings with internal wiring. ● Fourth Part- Brackets and Lights- The overall height of this crown assembly is 2560mm. It comprises of two parts: 4 lights and 4 brackets facing upwards with unique heritage patterns with height 1540mm. A classic decorative central light is put up on this part with height of 1020mm to give it a glorious look. The bracket size is of 1030mmx486mm having all internal wiring arrangements for lights. And the light fittings on the bracket are made of decorative aluminum casting. The light fittings having diameter 550 mm and height 1020 mm. Mentioned</p>	Each	1			
15	<p>SITC of Dynamic colourful statewise INDIA MAP (Size - 10ft x 8.9 ft) A) INDIA MAP made of 2mm thickness 2B 304G inside galvanised / MS Fabrication with Front Side 2mm thickness 2B 304G and Side wall 4" Depth SS 2mm Thickness 2B 304G with Body Colour Gold PU Coating B) Having State LOGO base of 3mm ACP Inside High ILLUMINATED LED module and power supply . Top side UV Print Vinyl Paist. erection Fixing with Anchor Fastener Foundation Structure. LED Programming Animator Front Side 6mm 040 polycarbonate Side wall 2.5"Depth with Gold Brushed finish Aluminium profile & RGB Pixel Dot light of wattage 0.72W, size 30mm ,input voltage DC12V, Milky white Dome cover with IP65.As per design by PMC and approved by Engineer in charge, Including writing 3-5 minutes script for projection mapping in marathi, hindi and english language - the script will be directed by engineer in charge.. Music direction and creation, conceptualization and finalization of music design for vo, making of music, recordist for music,musician. Narration of 3-5 minutes by recognised personalities for marathi, hindi and english .with 3 years warranty.</p>	Each	1			
16	<p>SITC P4 Outdoor LED Screen 3mm ACP Inside High ILLUMINATED LED module and power supply top side UV Print Vinyl Pesting and Fixing with Anchor Fastner Foundation Structure of height 1.5-2 meter . P4 Outdoor LED Screen made of Cabinet Material MS, Pixel Density 62500 Pixel Patch. P4 Outdoor Resolution 80 x 40 Module of Size 320 x 160 Brightness 4500cd/m2 IP Grade IP65 Refresh rate >1920 Lamp Effective Rate <0.0003 LED Encapsulation SMD2525 Scan 1/10 Life 100000 hours.The Screen should have Nagpur tourist places content as per given by the department.with 3 years warranty.</p>	Each	1			
17	<p>SITC of POLE: made of marine Quality Composite (marine grade corrosion resistant & Hydrocarbon solvent resistant). Inner frame made of mild steel pipe IS:3601 or equivalent, hot-dip galva rized 60 microns, post fabrication. its Reinforced with glass fibre CSM 1040 450GSM E Glass Matt with a density of 450g/m2 & 300GSM Emulsion chopped strand matt with a density of 300g/m2. The product is an all weather proof & maintenance free with long design life. Its self coloured textured surface finish with scratch resistant, aliphatic grade U.V stabilized PU paint with UV stable polyurethane 120 S+/-S viscosity aliphatic paint. with long standing life. these lamp post is individually hand craffed to replicate wood which usually require maintenance and care.LUMINAIRE: 40 Walt LED post-top luminaire with height 600MM and width 568MMwith 3 years warranty.</p>	Each	1			

18	SITC of IP67& above, Solar warm white flame bollard with 96 LED , lithium iron phosphate battery 3.7V ,2000mAH, 5.5V -1.3Watt Polycrystalline solar panel. Charging Time 6-8 Hours with Backup of Up to 8 hours. Light Body Fiber, Pole\Stand material available in Plastic body with 2.5 mm thick and also with MS Pipe with thickness of 2.5 MM. Stand Size 130*780mm with stand With 3 year warranty	Each	1			
19	SITC of FRP Designer Lighting Pole Made of marine quality Composite. It is Reinforced with glass fibre Chopped Strand Mat EMC450, with Area Weight of +/-7.5% as per ISO3374, Moisture Content of <20% as per ISO3344, Size Content of 3.7(1+31%) as per ISO 1887 and Breakage Strength of >140N as per ISO 3342. Isophthalic Unsaturated Polyester laminating resin having medium viscosity and Low reactivity based on Isophthalic acid and standard glycols, dissolved in styrene monomer is used in making the product. The resin has Viscosity at 25°C (P): 400 to 500, Acid Value (mg KOH/gm): 15-20, Specific Gravity at 25°C: :1.11±0.02, Volatile content (%): 38 +/-3, Gel time at 30°C (minutes), (with Resin = 100 grams; Accelerator 3% Cobalt Octoate = 1.0 and Catalyst MEKP M-50= 1.5 ml): 8 to 12. Curedclear Cast Resins comes with the following properties: Barcol hardness: 42, : 42 Heat deflection temperature (°C): 94, Tensile strength (kg/cm2): 600, Tensile modulus Map of 3100; Elongation at break: 2.5%; Flexural strength (kg/cm2): 1050, Flexural modulus (Mpa) of 3200, Water absorption @25°C (mg) (after 24hours) of 20. The method of testing and the tolerances are as prescribed in IS-6746-1994. The product is Weatherproof and maintenance free with long design life. Pre-paint treatments It is a self-coloured textured surface finish with scratch-resistant, aliphatic grade U.V. stabilized PU paint with UV stable Polyurethane with viscosity of 80(+/-3 Sec), Gravity 97(+/-3)Grams, Fineness Of Grind 3 Micron with long-standing life. The FRP is of minimum 2 mm Thickness with 10% tolerance. The FRP Pole is 6000 mm ht & 2040 mm wide. The Pole has 1 PC Luminaire on top which is suitable for 30wt LED bulb & 4 Diya lamps at the base bollard. The Pole has metal section reinforced with FRP for product stability. The Pole comes with a base plate to mount it on the floor surface.. All hardware is SS304. The pole should be a per designed by PMC and approved by Engineer in charge.with 3 years warranty.	Each	1			
20	Technical Specification of Decorative Ornamental Square Center Lamp-Post. Supply, Installation and fixing of heritage architectural ornamental decorative light pole having provision to fix decorative five arm bracket with aluminium light fixture. Installation of same with foundation bolts of suitable size to grout it into specially designed RCC foundation, as shown in the enclosed drawing. The decorative bracket & light shall be fixed on the top of the pole. The details of pole, brackets & light are given below: - The total height of the Big Pole is 8000mm. A.Pole: The pole with brackets shall look like as shown in the drawing. It shall have all similar features as shown in the enclosed drawing/picture. The Combo Pole of nearly 6120 mm length.The pole has ornamental base (Approx.overall dimension-height 1200mm,bottom dia 1210mm). The Pole shall have a provision of inbuilt junction box for fixing MCB's or cut outs with detachable window cover. The part above ornamental base design consists of decorative sections of circular shapes & rings indifferent dimension, is made of cast iron in fine finish along with decorative cast iron Victorian style Capital having dimensions of 965x790x535mm; designer four sides. The design of the cast-iron parts is clearly shown in the drawing. Mentioned dimensions are proposed dimensions, which may vary with actual measurements (Tolerance of ±5%) B.Brackets: The architectural custom design cast iron + M.S pipe brackets details of the various portions are given in the drawing, which is of nearly 2320mm width, 1044 mm height & which is made in combination of MS pipe section aesthetic cast iron elements as shown in drawing & provision of leakage-proof concealed wiring to maintain look of bracket. The designs of cast iron to be welded to the brackets shall be similar to the once shown in the drawing. Mentioned dimensions are proposed dimensions, which may vary with actual measurements (Tolerance of ±5%). C.Light Fixture: The ornamental aluminum casted decorative light fitting of total height nearly 840mm. The fixtures having suitable connector for fixing on required post; as shown in the	Each	1			

21	<p>Technical Specification of Decorative Ornamental Square Center Lamp-Post. Supply of heritage architectural ornamental Square Center Lamp-Post. Decorative light pole having provision to fix decorative brackets with aluminum light fixture. Installation of same with foundation bolts of suitable size to grout it into specially designed RCC foundation, as shown in the enclosed drawing. The decorative bracket & light shall be fixed on the pole. The details of pole, brackets & light are given below: - The total height of the pole is 8700mm. First Part-Base is beautiful combination of cast iron and M.S. structural work, shaping square and having dimensions- 1208mmx1208mm and the total height of the base is 1250mm. All four sides of the base having very decorative design shown in drawing. One of the sides of the base should be open able for all electric arrangements. It must have 8 holes for fixing that too in standard size of template. Second Part- It is also a combination of cast iron and M.S. fabrication work. The total height of Second Part is 5190mm. The second part is divided into different parts. Bottom part- The round shape decorative cast iron part reducing its diameter from 1050mm to 460mm as per attached reference drawing. Center Part- 460mm round M.S. cylinder of height 4400 covered all side from cast iron decorative designs. Decoration base for light Fitting Part- in the center part, a cast iron part of bracket height 590mm and width of single arm bracket 575 which will have four light fitting arrangement in it. Light Fitting- the four light fittings on the bracket are made of decorative aluminum casting. The light fittings are in hexagonal shape having diameter 620mm and height 825mm. Capital part- the top most part of second part is capital. a decorative cast iron Victorian style Capital having designer four sides. Third Part: The ornamental aluminum casted decorative Crown type light fitting of total height nearly 1650mm & width of 600mm. Mentioned dimensions are proposed dimensions, which may vary with actual measurements (Tolerance of ±5%). Technical Data Sheet of 100W LED Module – Wattage -100 Watt, Input operating</p>	Each	1			
22	<p>SITC of 40W LED Floodlight of max 100mm dia with System Lumen Output of Minimum 4000 Lumen (±10%) with all channels ON. The fixture shall be made up of Diecast Aluminum Housing for better heat decapitation having IP65 Dust and Weather with IK06 Protection for Outdoor usage. The fixture should be cradle-mounted with different accessories for different mounting arrangements separately. Fixtures shall be available with Snoot as an option for Glare protection to be mounted separately. The Luminaire should have multiple beam options of 15/30/45° to be used as per design requirements. The luminaire shall have dual axial Rotational flexibility suitable for 360° rotation. The LED shall be compliant with Useful L70 life of >50000 Hrs. The LEDs used should be with 3000K. The luminaire should have a loop-in loop-out provision for power. Luminaire should be with integral driver is pre-wired up to the terminal block. Luminaire and Driver should be Made in India. The luminaire, Driver and controller should be of the same make. Designed and manufactured to comply with IS 10322 part 5/Sec 5 2012.with 3 years warranty.</p>	Each	1			
23	<p>SITC of 5Mtr long flexible RGBW LED Strip with IP 67 protection suitable for outdoor applications. Strip should have 10W per meter. The LED shall be compliant with Useful L70 life of >35000 Hrs. The LEDs used should be with RGB CCT .LED Driver shall be Isolated type, Constant Voltage topology driver in metal enclosure with IP 68 Protection. Driver efficiency should be 86% & proper heat sink for heat dissipation suitable to operate in input voltage range of 150V to 270V (nominal rated voltage – 240V) with 3 KV internal surge protection. LED driver shall have output short circuit & over voltage protection inbuilt. with 3 years warranty.</p>	Each	1			
24	<p>SITC of 36W RGBW LED inground with System Lumen Output of Minimum 1200 Lumen (±10%) with all channel ON. Min Inground Light die cast aluminum housing integrated with MC PCB populated with LED and optical lens beam angle Symmetrical 15 Deg. / 30 Deg. Fixture shall be made up of Die cast Aluminum Housing for better heat decapitation having IP66 Dust and Water Protection for Outdoor usage. mounted on aluminum Die cast Heat Sink. SS ring should fixed with A min. 8mm Toughened clear glass with silicon gasket to die cast Heat sink to achieve IP67 ingress protection and meet IK10 protection. Luminaire is powder coated with Polyester TGIC for Heat Sink. The luminaire should have loop in loop out provision for power and DMX Signal. Luminaire shall have 4 DMX channel with Integrated DMX decoder. Luminaire should be capable of operating at 24VDC , with External IP66 driver.with 3 years warranty.</p>	Each	1			

25	Supply, installation, Testing and commissioning of Projector Light upto 110W, LED, RGBW, IP 66. •Housing- light weight, made of high strength die cast aluminium and coated by static powder. •Protection screen - Ultra white tempered glass with high impact resistance (=>IK08). •High precision dial - Precision angle adjustment. •Power LED Module Efficacy -4000 lumens, CRI >80. •Electronic Power Supply for LED Module, offering protection against Short Circuit, Over- Voltage & Over- Current, with in-built surge protection. •DMX512 protocol compatible, •Light fixture with inbuilt DMX decoder function. •Individually addressable to operate with any standard DMX512 equipment. •Polycarbonate lens suitable for minimum 4 different beam angles 9deg. /13deg. /25deg. /35deg. •Estimated LED Lifetime minimum L70 -100,000 hours. •LM80 report from LED Manufacturer. •Fixture to be duly erected with suitable bracket grouted in cement concrete foundation with anchor fastener/ pole with all accessories complete. •THD < 10%, • Power Factor greater than 0.95, • IP66, •4KV Internal surge protection, •Operating voltage - AC 100 to 277 V Supply.with 3 years warranty.	Each	1			
26	Supply, installation, Testing and commissioning of Projector Light upto 280W, LED, RGBW, IP 66. •Housing- light weight, made of high strength die cast aluminium and coated by static powder. •Protection screen - Ultra white tempered glass with high impact resistance (=>IK08). •High precision dial - Precision angle adjustment. •Power LED Module Efficacy -12150 lumens, CRI >80. •Electronic Power Supply for LED Module, offering protection against Short Circuit, Over- Voltage & Over- Current, with in-built surge protection. •DMX512 protocol compatible, •Light fixture with inbuilt DMX decoder function. •Individually addressable to operate with any standard DMX512 equipment. •Polycarbonate lens suitable for minimum 4 different beam angles 9deg. /15deg. /25deg. /30deg. •Estimated LED Lifetime minimum L70 -100,000 hours. •LM80 report from LED Manufacturer. •Fixture to be duly erected with suitable bracket grouted in cement concrete foundation with anchor fastener/ pole with all accessories complete. •THD < 10%, • Power Factor greater than 0.95, • IP66, •4KV Internal surge protection, •Operating voltage - AC 100 to 277 V Supply.with 3 years warranty.	Each	1			
27	Supply, installation, Testing, commissioning & programming of 4 port Industrial Grade DMX Splitter(Din rail Mountable) with following features & specifications:•DMX splitter booster, DMX repeater, Input optically isolated, Each output individually optically isolated, RDM support, Rugged metal housing & Built-in termination. •Boost/repeat DMX signals, Regenerate/clean DMX signals, Prevent reflection issues, Split DMX signals and build star topologies, Connect a large number of fixtures to a single universe & Protect expensive equipment. •Weight-not more than 0.5Kgs.,•Ambient temperature - -30 - +55°C , •Power consumption 4 W,•DC power input -10 - 48 V DC, •DMX-ANSI E1.11,•RDM-ANSI E1.20 & Signal ports-EIA-485.with 3 years warranty.	Each	1			
28	Supply, installation, Testing, commissioning & programming of 2 Universe (1048Channels) microprocessor based DMX controller, with following specifications :•Microprocessor-based system specifically designed for control of lighting in an architectural application. Personal computer running emulation software shall not be acceptable. Store show-data in non-volatile solid-state memory. This memory shall be removable for purposes of backup or disaster-recovery. Show-data must be downloaded from a remote personal computer over an Ethernet or USB connection. •Capacity of 1024 output control channels of either DMX512 with RDM or eDMX protocols, including Art-Net II, KiNet, sACN and Path port. Support multiple timelines, crossfades and effects running concurrently. •A multi-mode full-duplex RS232/half-duplex RS485 serial port. •Receive DMX512 for triggering and 8 local inputs capable of digital, analogue or contact closure operating modes. A MIDI input and a MIDI output interface for use in triggers and for MIDI timecode. Support multiple remote devices connected via Ethernet for support of additional show control interfaces, such as contact closures, analogue inputs, relay outputs, serial, audio input, linear timecode, MIDI and DALI. Internal watchdog feature to restart the unit in the event of program failure. •The Controller shall support conditional logic and execute user-defined Lua scripts to support advanced show control operations. •Enclosure and mounting shall comply with DIN43880 and EN60715(35/7.5) respectively.with 3 years warranty.	Each	1			
29	Supplying, erecting & terminating of DMX cable RS-485, (1 pr) 24 AWG (7x32) TC, PE/PVC, Foil+TC Braid Shield, CM, 120Ω on wall, pole or laid in provided pipe.with 3 years warranty.	Meter	1			

30	Supply ,Installation Testing and commissioning of Outdoor type AVR IP65 rated (Servo Voltage Stabilizer), 50 KVA, Three Phase, Oil Cooled, Unbalance type, Output voltage 415V, (+/- 1%), Input voltage range 300V-460V, High /low voltage cutoff circuit using MCB/MCCB, Changeover Switch.with 3 years warranty.	Each	1			
31	Supply ,Installation Testing and commissioning of Main LT panel fully compartmentalised of IP 65 rating floor mounted with frame of suitable M.S channel with anti-rust treatment and duly powder coated or painted with one coat of red lead paint and 2 coats of enamel paint complete with following switchgears(1)Incomer FP MCCB, C-SERIES ,100A - 1 No, 10kA,(2)Outgoing FP MCB, C-Series, 40A - 05nos , FP MCCB, C-Series ,16A - 2 No. including spares,(3)Aluminium busbar of suitable size, (4)Three phase Multifunction meter with L.T. Current Transformer of required rating with bar primary 50/5 to 1000/5 ratio with 15VA burden.(5)Pilot lamps for ON/OFF, RYB , self locking arrangement, etc.with 3 years warranty.	Each	1			
32	Supply ,Installation Testing and commissioning of Outdoor Facade panels fully compartmentalised of IP 65 rating floor mounted with frame of suitable M.S channel dully painted, fabricated of 16 swg CRCA sheets completely derusted, chemically treated and hot dip GI Etched, Primered and PU painted having the following: (1) Incomer FP MCCB, C-SERIES ,40A - 1 No, 10kA,(2) Outgoing SP MCB, C-Series, 6-32A - 25nos , TP MCB, C-Series ,16A - 2 No. including spares, (3) Aluminium busbar of suitable size, (4) Three phase Multifunction meter with L.T. Current Transformer of required rating with bar primary 50/5 to 1000/5 ratio with 15VA burden, provision of Auto/Manual operation - 1 set,(5) Pilot lamps for ON/OFF, RYB , self locking arrangement with control MCB etc. (6) TPN type - 2, 15kA SPD - 1 no The panel shall also have separate compartment with din rails to mount programming and control system with 3 years warranty.	Each	1			
33	Providing and erecting 1/2/3way multiport weatherproof connector, suitable for upto 1.1KV grade cable of 1.5 - 10 sqmm size.with 3 years warranty.	Each	1			
34	Supply, Installation, Testing and Commissioning of 3000K LED Strip light with IP66, sealed with anti-UV polyurethane without color shifting and anti-UV aging.lumen output from 400Lm/Mtr, 25Watt/5Mtr . for 3000K ,Product width 12mm, better color consistency for visual comfort ,DC 24VDC, Class III for safety use Long lifespan 30K hrs. L70B50@35°C ,Lead cable (1000mm) with suitable numbers of clip,screw,end caps ,mounting tracks and waterproof connector. with 3 years warranty.	Each	1			
35	SITC of high quality RGBW Floodlight projector having precies beam angle as per design or site requirement suitable for façade lighting applications. Housing to be made of pressure die-cast Aluminium with excellent heat management system to ensure proper heat dissipation and thermal stability of the luminaire. The luminaire shall have electrostatically applied polyester powder coating finish. Luminaire shall be suitable to operate in a temperature range of -10°C to 50°C, LED life should be at least 50,000 burning hours at L70 at 35°C. The lens shall be made of anti-aging & anti UV-PMMA material and able to minimize hot spots & fringing in color mixing to insure proper light distribution. Suitable for outdoor weather proof conditions having IP66 ingress protection. Transparent toughened glass having impact resistance protection of IK08. Luminaire should have DMX-512 control protocol and should have inbuilt DMX decoder chip. The luminaire shall have system wattage 145~ 150W and system lumen output of not less than 6000 lumens, Beam angle should be narrow : 10/15 Degree/As per site condition, The fixture shall have an integral driver with input voltage for 220-240 VAC, 50/60Hz, power factor > 0.90, complying to BIS standard "IS 10322 ,Color Temperature : RGBW, Operating Temperature : -10°C to +50°C, Operating Humidity : 10%-90%, LED Makes should be CREE, Lumiled, Osram, Seoul, Nichia, Bridgelux to insure higher lumen output and brightness with SMD LED chips. Luminaire should have pre wired integral male/female waterproof connectors as per IS standard for DMX Loop In/out facility. The successful bidder shall submit the following certifications/ reports for approval before supply of materials: product data sheets, LM79 report from NABL accredited lab, polar curve & LM80 report issued by LED manufacturer along with the BIS certificate.with 3	Each	1			

36	<p>Supply of high quality RGBW Floodlight projector having precies beam angle as per design or site requirement suitable for façade lighting applications. Housing to be made of pressure die-cast Aluminium with excellent heat management system to ensure proper heat dissipation and thermal stability of the luminaire. The luminaire shall have electrostatically applied polyester powder coating finish. Luminaire shall be suitable to operate in a temperature range of -10°C to 50°C, LED life should be at least 50,000 burning hours at L70 at 35°C. The lens shall be made of anti-aging & anti UV-PMMA material and able to minimize hot spots & fringing in color mixing to insure proper light distribution. Suitable for outdoor weather proof conditions having IP66 ingress protection. Transparent toughened glass having impact resistance protection of IK08. Luminaire should have DMX-512 control protocol and should have inbuilt DMX decoder chip. The luminaire shall have system wattage 70~ 75W and system lumen output of not less than 2890 lumens, Beam angle should be narrow : 15/25 Degree/As per site condition, The fixture shall have an integral driver with input voltage for 220-240 VAC, 50/60Hz, power factor > 0.90 complying to BIS standard "IS 10322 ,Color Temperature : RGBW, Operating Temperature : -10°C to +50°C, Operating Humidity : 10%-90%, LED Makes should be CREE, Lumiled, Osram, Seoul, Nichia, Bridgelux to insure higher lumen output and brightness with SMD LED chips. Luminaire should have pre wired integral male/female waterproof connectors as per IS standard for DMX Loop In/out facility. The successful bidder shall submit the following certifications/ reports for approval before supply of materials: product data sheets, LM79 report from NABL accredited lab, polar curve & LM80 report issued by LED manufacturer along with the BIS certificate.with 3 years warranty.</p>	Each	1			
37	<p>Supply of high quality RGBW Linear wall washer having precies beam angle as per design or site requirement suitable for façade lighting applications. Housing to be made of extruded Aluminium alloy with excellent heat management system to ensure proper heat dissipation and thermal stability of the luminaire. The luminaire shall have electrostatically applied polyester powder coating finish. Luminaire shall be suitable to operate in a temperature range of -10°C to 50°C, LED life should be at least 50,000 burning hours at L70 at 35°C. The lens shall be made of anti-aging & anti UV-PMMA material and able to minimize hot spots & fringing in color mixing to insure proper light distribution. Suitable for outdoor weather proof conditions having IP66 ingress protection. Transparent toughened glass having impact resistance protection of IK08. Luminaire should have DMX-512 control protocol and should have inbuilt DMX decoder chip. The luminaire shall have system wattage 60W and system lumen output of not less than 2400 lumens, Beam angle should be narrow : 10x60 /15x45 Degree/As per site condition, The fixture shall have input voltage for 24V DC, external high efficiency driver having power factor >0.90, Surge protection 4KV and other protections including OCP, OVP, SCP, OTP shall be provided. Luminaire complying to BIS standard "IS 10322" ,Color Temperature : RGBW, Operating Temperature : -10°C to +50°C, Operating Humidity : 10%-90%, LED Makes should be CREE, Lumiled, Osram, Seoul, Nichia, Bridgelux to insure higher lumen output and brightness with SMD LED chips. Luminaire should have pre wired integral male/female waterproof connectors as per IS standard for DMX Loop In/out facility. The successful bidder shall submit the following certifications/reports for approval before supply of materials: product data sheets, LM79 report from NABL accredited lab, polar curve & LM80 report issued by LED manufacturer along with the BIS certificate.with 3 years warranty.</p>	Each	1			

38	<p>Supply of high quality RGBW Linear wall washer having precies beam angle as per design or site requirement suitable for façade lighting applications. Housing to be made of extruded Aluminium alloy with excellent heat management system to ensure proper heat dissipation and thermal stability of the luminaire. The luminaire shall have electrostatically applied polyester powder coating finish. Luminaire shall be suitable to operate in a temperature range of -10°C to 50°C, LED life should be at least 50,000 burning hours at L70 at 35°C. The lens shall be made of anti-aging & anti UV-PMMA material and able to minimize hot spots & fringing in color mixing to insure proper light distribution. Suitable for outdoor weather proof conditions having IP66 ingress protection. Transparent toughened glass having impact resistance protection of IK08. Luminaire should have DMX-512 control protocol and should have inbuilt DMX decoder chip. The luminaire shall have system wattage 24W and system lumen output of not less than 1010 lumens, Beam angle should be narrow : 10x60 /15x45 Degree/As per site condition, The fixture shall have input voltage for 24V DC, external high efficiency driver having power factor >0.90, Surge protection 4KV and other protections including OCP, OVP, SCP, OTP shall be provided. Luminaire complying to BIS standard "IS 10322" ,Color Temperature : RGBW, Operating Temperature : -10°C to +50°C, Operating Humidity : 10%-90%, LED Makes should be CREE, Lumiled, Osram, Seoul, Nichia, Bridgelux to insure higher lumen output and brightness with SMD LED chips. Luminaire should have pre wired integral male/female waterproof connectors as per IS standard for DMX Loop In/out facility. The successful bidder shall submit the following certifications/reports for approval before supply of materials: product data sheets, LM79 report from NABL accredited lab, polar curve & LM80 report issued by LED manufacturer along with the BIS certificate.with 3 years warranty.</p>	Each	1			
39	<p>Supply of RGBW Flexible Strip with Lens with wide beam angle suitable for outdoor applications of Façade Lighting. Silicon/PU Moulded Flexible tubes with vertical bending option. Power Consumption should be between 15-20W/m with 40°/60° beam angle. Ingress Protection should be IP 67 or higher.The fixture shall have input voltage for 24V DC, external high efficiency driver having power factor >0.90, Surge protection 4KV and other protections including OCP, OVP, SCP, OTP shall be provided. The lumen maintenance L70@ 25 °C of the LED shall not be less than 70% of the initial lumen after 30,000 burning hours * Power supply: DC 24V * Operating temperature range: -10°C to +50°C * LED make: CREE/ OSRAM/ LUMILED/ SEOUL/ NICHIA/Sanan/Epistarwith 3 years warranty.</p>	Each	1			
40	<p>Supply, installation, testing and commissioning of DMX Splitter cum Booster ,Input Power- 100 to 240 VAC, auto-ranging, 50/60 Hz.,Housing rugged alluminium, Operation Temperature -17°C ~ +55°C (0°F ~ 131°F) , 5/6 output ports with 3/5-pin terminal sockets , each port should be optically isolated , Protection Rating IP20 including connection complete as required. Make: Pioneer/Briteq/Swissongwith 3 years warranty.</p>	Each	1			
41	<p>Supply Installation Testing and commission of above items, including all accessories required for the successful operation of the system, like Lighting Panel, Power supply & DMX/CAT-6 Cables, Junction Boxes/connectors earthing, conduit, DWC Pipes etc. Programming and testing of controllers. 1. Addressing, Patching and Programming DMX Light Fixtures 2. Creating many sequences as per the client's requirement. 3. Training of the site technicians.(Visit the site before giving the offer,Gandhi Gate)with 3 years warranty.</p>	Job	1			

42	<p>Supply of DMX Controller System with Standalone interfaces. Controller should deliver 2*512DMX channels, the controller should have future upgradation provision up to 4 DMX universe Port. the controller should have new Nicolaudie Stand Alone engine (NSA) offering some great possibilities (multi-zone, extended triggers, 16-bit channels management...). the controller should offer multiple possibilities to trigger your lighting scenes: time/date, input ports, TCP/UDP commands. Should have Intuitive backlit keyboard with 10 presets. PC DMX IN triggers:Yes, Standalone DMX IN triggers: External triggers: 10 buttons for direct access,2 buttons to change scene,+ 1 button to change zone. 16 dry contact trigger ports via 20-Pin IDC Socket. Internal calendar: Yes, Backup of the internal clock: Yes, 3weeks without power, Memory card: Yes microSD card, 32GB max, Input power voltage: 5-5.5V DC 0.6A with power adaopter working on AC power supply,. via USB(USB power supply included), Trigger lighting scenes using calendar triggers and conditional rules with New Stand Alone engine, using contact ports, RS232 or over Ethernet. Stand Alone mode with 99 scenes across 5 zones. Buttons: iPhone/iPad/Android remote and programming apps. Temperature: 0 to +50 C°, DMX Compatibility: 8 and 16 bit DMX fixtures, System Compatibility: Windows XP, Vista, 7, 8, 8.1, 10, MAC OS X. Make: Nicolaudie/Pharos/Osram ECUE/Philips iColor (10.6 and +), Linux.: with 3 years warranty.</p>	Each	1			
43	<p>SITC 3W-11W RGBW Outline tube of Color Changing RGBW surface mounted Narrow/Medium beam luminaire suitable for outdoor applications of Facade Lighting. Luminaires should be LEDs enabled and consist of highly efficient, UV and temperature-resistant optics with symmetric distribution. Wattages 3W -11W , LED Make CREE/ OSRAM/ LUMILED, Static/ Tunable WhiteNo / No, RGB/RGBW Yes / No,.Voltage Range DC 24V,Lumens 60 -220 Lumens,Beam Angles 120°,Driver Non -Integral , IP Rating -IP 65/66 , IK Rating-IK 07, Weight (in Kgs)0.6 -1.2 kgsWith glass cover, clear/powder coated. Luminaire luminous flux range 1200-1500 Lm, Luminaire should be Controlled through DMX/Ethernet protocol using DMX 512 Controller, Controller can achieve 16.7M colors. with 3 years warranty.</p>	Each	1			
44	<p>SITC of Color Changing RGBW 15w Neon LED STRIP RGBW surface mounted Narrow/Medium beam luminaire suitable for outdoor applications of Facade Lighting. Luminaires should be enabled LEDs, should consists of highly efficient, UV and temperature-resistant optics with symmetric distribution. Wattages 15W ,LProduct Category Architectural ED System Wattage** 15W/m Luminous flux** 200 lm,Correlated Color Temperature/Color RGBW with 3 years warranty.</p>	Each	1			
45	<p>SITC of Color Changing RGBW 30W-36W RGBW LED Wall Washer /Linear Luminaire surface mounted Narrow/Medium beam Projector wall washer 1000 mm luminaire suitable for outdoor applications of Facade Lighting. Luminaires should be enabled with high power LEDs, should consists of highly efficient, UV and temperature-resistant optics with symmetric distribution. With glass cover, clear/powder coated. Luminaire should be Controlled through DMX/Ethernet protocol using DMX 512 Controller, Controller can achieve 16.7M colors. The luminaire should have options for various beam angles: 8°/15°/25°/35°/60°/30°x50°. Power consumption should be between30W-36W RGBW at steady state full intensity. Power factor of the luminaire shall be more than 0.90. Luminaire should be provided with suitable integral/separate non-integral power supply unit. The lumen maintenance L70@ 25 °C of the LED shall not be less than 70% of the initial lumen after 50,000 burning hours. Ingress Protection should be IP 66 or higher. Housing should be made of pressure Die cast Aluminium with 3-4mm thick safety glass. Impact resistance level should be suitable to site condition minimum IK07. Adequate heat sink with proper thermal management shall be provided. Operating Temperature : -10°C to +45°C, Operating Humidity : 10%-90%, Housing to have adjustable base bracket for angle adjustment so that the light direction can be adjusted to illuminate desired structural elements. LEDs of CREE / LUMILED / OSRAM / SEOUL / SAMSUNG reputed make shall be used for the light fittings. Luminaire Shall be BIS approved. with 3 years warranty.</p>	Each	1			

46	<p>SITC of Color Changing RGBW 12W-18W LED Wall Washer /Linear Luminaire surface mounted Narrow/Medium beam wall washer 1000 mm luminaire suitable for outdoor applications of Facade Lighting. Luminaires should be enabled with high power LEDs, should consists of highly efficient, UV and temperature-resistant optics with symmetric distribution. With glass cover, clear/powder coated. Luminaire should be Controlled through DMX/Ethernet protocol using DMX 512 Controller, Controller can achieve 16.7M colors. The luminaire should have options for various beam angles: 8°/15°/25°/35°/60°/30°x50°. Power consumption should be between 170W to 190W at steady state full intensity. Power factor of the luminaire shall be more than 0.90. Luminaire should be provided with suitable integral/separate non-integral power supply unit. The lumen maintenance L70@ 25 °C of the LED shall not be less than 70% of the initial lumen after 50,000 burning hours. Ingress Protection should be IP 66 or higher. Housing should be made of pressure Die cast Aluminium with 3-4mm thick safety glass. Impact resistance level should be suitable to site condition minimum IK07. Adequate heat sink with proper thermal management shall be provided. Operating Temperature : -10°C to +45°C, Operating Humidity : 10%-90%, Housing to have adjustable base bracket for angle adjustment so that the light direction can be adjusted to illuminate desired structural elements. LEDs of CREE / LUMILED / OSRAM / SEOUL / SAMSUNG reputed make shall be used for the light fittings. Luminaire Shall be BIS approved. with 3 years warranty.</p>	Each	1			
47	<p>SITC of Color Changing RGBW 170W-190W LED Projector/Floodlight Luminaire surface mounted Narrow/Medium beam Projector luminaire suitable for outdoor applications of Facade Lighting. Luminaires should be enabled with high power LEDs, should consists of highly efficient, UV and temperature-resistant optics with symmetric distribution. With glass cover, clear/powder coated. , Luminaire should be Controlled through DMX/Ethernet protocol using DMX 512 Controller, Controller can achieve 16.7M colors. The luminaire should have options for various beam angles: 8°/15°/25°/35°/60°/30°x50°. Power consumption should be between 170W to 190W at steady state full intensity. Power factor of the luminaire shall be more than 0.90. Luminaire should be provided with suitable integral/separate non-integral power supply unit. The lumen maintenance L70@ 25 °C of the LED shall not be less than 70% of the initial lumen after 50,000 burning hours. Ingress Protection should be IP 66 or higher. Housing should be made of pressure Die cast Aluminium with 3-4mm thick safety glass. Impact resistance level should be suitable to site condition minimum IK07. Adequate heat sink with proper thermal management shall be provided. Operating Temperature : -10°C to +45°C, Operating Humidity : 10%-90%, Housing to have adjustable base bracket for angle adjustment so that the light direction can be adjusted to illuminate desired structural elements. LEDs of CREE / LUMILED / OSRAM / SEOUL / SAMSUNG reputed make shall be used for the light fittings. Luminaire Shall be BIS approved. with 3 years warranty.</p>	Each	1			
48	<p>SITC of Color Changing RGBW 140W-160W LED Projector/Floodlight Luminaire surface mounted Narrow/Medium beam Projector luminaire suitable for outdoor applications of Facade Lighting. Luminaires should be enabled with high power LEDs, should consists of highly efficient, UV and temperature-resistant optics with symmetric distribution. With glass cover, clear/powder coated. Luminaire should be Controlled through DMX/Ethernet protocol using DMX 512 Controller, Controller can achieve 16.7M colors. The luminaire should have options for various beam angles: 8°/15°/25°/35°/60°/30°x50°. Power consumption should be between 140W to 160W at steady state full intensity. Power factor of the luminaire shall be more than 0.90. Luminaire should be provided with suitable integral/separate non-integral power supply unit. The lumen maintenance L70@ 25 °C of the LED shall not be less than 70% of the initial lumen after 50,000 burning hours. Ingress Protection should be IP 66 or higher. Housing should be made of pressure Die cast Aluminium with 3-4mm thick safety glass. Impact resistance level should be suitable to site condition minimum IK07. Adequate heat sink with proper thermal management shall be provided. Operating Temperature : -10°C to +45°C, Operating Humidity : 10%-90%, Housing to have adjustable base bracket for angle adjustment so that the light direction can be adjusted to illuminate desired structural elements. LEDs of CREE / LUMILED / OSRAM / SEOUL / SAMSUNG reputed make shall be used for the light fittings. Luminaire Shall be BIS approved. with 3 years warranty.</p>	Each	1			

49	<p>SITC of Color Changing RGBW 24W-26W LED Wall Washer /Linear Luminaire surface mounted Narrow/Medium beam wall washer 1000 mm luminaire suitable for outdoor applications of Facade Lighting. Luminaires should be enabled with high power LEDs, should consists of highly efficient, UV and temperature-resistant optics with symmetric distribution. With glass cover, clear/powder coated. Luminaire should be Controlled through DMX/Ethernet protocol using DMX 512 Controller, Controller can achieve 16.7M colors. The luminaire should have options for various beam angles: 8°/15°/25°/35°/60°/30°x50°. Power consumption should be between 24-26Watt at steady state full intensity. Power factor of the luminaire shall be more than 0.90. Luminaire should be provided with suitable integral/separate non-integral power supply unit. The lumen maintenance L70@ 25 °C of the LED shall not be less than 70% of the initial lumen after 50,000 burning hours. Ingress Protection should be IP 66 or higher. Housing should be made of pressure Die cast Aluminium with 3-4mm thick safety glass. Impact resistance level should be suitable to site condition minimum IK07. Adequate heat sink with proper thermal management shall be provided. Operating Temperature : -10°C to +45°C, Operating Humidity : 10%-90%, Housing to have adjustable base bracket for angle adjustment so that the light direction can be adjusted to illuminate desired structural elements. LEDs of CREE / LUMILED / OSRAM / SEOUL / SAMSUNG reputed make shall be used for the light fittings. Luminaire Shall be BIS approved.with 3 years warranty.</p>	Each	2			
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